All pricing is 30% off list

L3Harris-Tait Products & Services Catalog

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CUSTOMER SERVICE AND ORDERING INFORMATION

CUSTOMER AND FINANCIAL SERVICES

This catalog contains pricing and ordering information on standard two-way mobile radio equipment, control devices, and accessories manufactured by L3Harris Technologies and complementary equipment supplied by other manufacturers.

Updates, such as product additions or price changes, will be made promptly to the catalog information that appears on our website. The address for the website appears below. This catalog will be issued periodically.

The following sections are included for ease of ordering:

- Code Numbers for Radio Services Applicable code must be stated on all orders. Codes represent the customer classification of radio equipment users.
- **Hazardous Atmosphere Categories** Selected portable radios with appropriate factory installed options are certified as **Intrinsically Safe** for use in Division 1, Class I hazardous locations in the presence of Gas Groups C and D atmospheres, Class II hazardous locations in the presence of Gas Groups E, F, and G atmospheres, Class III hazardous locations, and as **Nonincendive** for use in Division 2, Class I hazardous locations in the presence of Gas Groups A, B, C, and D. Typical certification information is shown herein. See product data sheets for actual product specifications.
- **Customer Contact Information and Financial Services** Web addresses, contacts and telephone numbers, standard payment terms and financing plans, order acceptance and documentation, sales to leasing companies, customer credit application, and Uniform Commercial Code (UCC-1) Financing Statement.
- Warranty Copies of L3Harris warranties are located at the website <u>https://www.harris.com/solution/pspc-customer-service</u>.

All prices and products are subject to change without notice. All prices shown are US Dollars. Shipping and handling charges are to be paid or billed to the customer. The Purchaser is responsible for the payment of excise, sales, use, and similar taxes that may be applicable.

All orders are subject to acceptance at the L3Harris facilities in Lynchburg, Virginia. Orders must be sent electronically, faxed, or submitted on an L3Harris order form and will be subject to the standard terms and conditions.

CODE NUMBERS FOR RADIO SERVICES (FOR APPLICATION IN THE U.S.A. ONLY)

On all orders, insert applicable code number in the CLASS OF SERVICE box at the bottom of the order form. Codes represent the customer classification of radio equipment users.

 EOO - SPECIAL EMERGENCY (90) E15 - Ambulance (Privately Owned) E20 - Doctor E30 - Veterinarian E45 - School Bus (Privately Owned) E55 - Hospital (Privately Owned) GOO - PETROLEUM (90) G10 - Pipeline G20 - Refining G30 - Producing G40 - Drilling G50 - Exploration G90 - Other HOO - FOREST PROD. (90) IOO - SPECIAL INDUSTRIAL (90) I10 - Agriculture I20 - Shaft Mining I30 - Heavy Construction (Bridges, Roads, etc.) I31 - Special Trade Contractor I32 - Water Well Drilling I33 - Water, Oil, Gas, or Power Product Systems I40 - Newspaper Periodicals (Relay Press) I50 - Concrete Asphalt Delivering I51 - Fuel Oil/LP Gas Deliveries I60 - Oil Field Maintenance & Service 190 - Other JIO - BUSINESS (90) JI1 - Heavy Construction J12 - Excavating and Grading J13 - Electrical Contractor J14 - Heavy Construction J12 - Excavating and Grading J13 - Electrical Contractor J14 - Heavy Construction J15 - Fuel Oil/LP Gas Deliveries I60 - Oil Field Maintenance & Service 190 - Other J10 - Building Contractor J11 - Heavy Construction J12 - Excavating and Grading J13 - Electrical Contractor J14 - TV wholesale Commercial Product Dealers J20 - Wholesale Commercial Machinery, Equipment & Supplies J30 - Retail Consumer Products J31 - TV and Appliance Dealers
 E15 - Ambulance (Privately Owned) E20 - Doctor E30 - Veterinarian E45 - School Bus (Privately Owned) E55 - Hospital (Privately Owned) GOO - PETROLEUM (90) G10 - Pipeline G20 - Refining G30 - Producing G40 - Drilling G50 - Exploration G90 - Other HOO - FOREST PROD. (90) IOO - SPECIAL INDUSTRIAL (90) I10 - Agriculture I21 - Strip Mining I21 - Strip Mining I33 - Heavy Construction (Bridges, Roads, etc.) I31 - Special Trade Contractor I32 - Water, Oil, Gas, or Power Product Systems I40 - Newspaper Periodicals (Relay Press) I50 - Concrete Asphalt Delivering I51 - Fuel Oil/LP Gas Deliveries I60 - Oil Field Maintenance & Service I90 - Building Contractor J11 - Bavy Construction J12 - Excavating and Grading J13 - Electrical Contractor J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 E20 - Doctor E30 - Veterinarian E45 - School Bus (Privately Owned) E55 - Hospital (Privately Owned) GOO - PETROLEUM (90) G10 - Pipeline G20 - Refining G30 - Producing G40 - Drilling G50 - Exploration G90 - Other HOO - FOREST PROD. (90) IOO - SPECIAL INDUSTRIAL (90) I10 - Agriculture I20 - Shaft Mining I21 - Strip Mining I30 - Heavy Construction (Bridges, Roads, etc.) I31 - Special Trade Contractor I32 - Water Well Drilling I33 - Water, Oil, Gas, or Power Product Systems I40 - Newspaper Periodicals (Relay Press) I50 - Concrete Asphalt Delivering I51 - Fuel OiL/L Gas Deliveries I60 - Oil Field Maintenance & Service I90 - Other JOO - BUSINESS (90) J10 - Building Contractor J13 - Electrical Contractor J21 - Excavating and Grading J13 - Electrical Contractor J20 - Busing and Grading J3 - Electrical Contractor J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 E45 - School Bus (Privately Owned) E55 - Hospital (Privately Owned) GO - PETROLEUM (90) G10 - Pipeline G20 - Refining G30 - Producing G40 - Drilling G50 - Exploration G90 - Other HOO - FOREST PROD. (90) IOO - SPECIAL INDUSTRIAL (90) I10 - Agriculture I20 - Shaft Mining I21 - Strip Mining I30 - Heavy Construction (Bridges, Roads, etc.) I31 - Special Trade Contractor I32 - Water, Well Drilling I33 - Water, Oil, Gas, or Power Product Systems I40 - Newspaper Periodicals (Relay Press) I50 - Concrete Asphalt Delivering I51 - Fuel Oil/LP Gas Deliveries I60 - Oil Field Maintenance & Service I90 - Other JOO - BUSINESS (90) J10 - Building Contractor J13 - Electrical Contractor J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 E55 - Hospital (Privately Owned) GOO - PETROLEUM (90) G10 - Pipeline G20 - Refining G30 - Producing G40 - Drilling G50 - Exploration G90 - Other HOO - FOREST PROD. (90) IOO - SPECIAL INDUSTRIAL (90) I10 - Agriculture I20 - Shaft Mining I21 - Strip Mining I30 - Heavy Construction (Bridges, Roads, etc.) I31 - Special Trade Contractor I32 - Water Well Drilling I33 - Water, Oil, Gas, or Power Product Systems I40 - Newspaper Periodicals (Relay Press) I50 - Concrete Asphalt Delivering I51 - Fuel OiL/L Gas Deliveries I60 - Oil Field Maintenance & Service I90 - Other JOO - BUSINESS (90) J10 - Building Contractor J13 - Electrical Contractor J13 - Electrical Contractor J21 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 E55 - Hospital (Privately Owned) GOO - PETROLEUM (90) G10 - Pipeline G20 - Refining G30 - Producing G40 - Drilling G50 - Exploration G90 - Other HOO - FOREST PROD. (90) IOO - SPECIAL INDUSTRIAL (90) I10 - Agriculture I20 - Shaft Mining I21 - Strip Mining I30 - Heavy Construction (Bridges, Roads, etc.) I31 - Special Trade Contractor I32 - Water Well Drilling I33 - Water, Oil, Gas, or Power Product Systems I40 - Newspaper Periodicals (Relay Press) I50 - Concrete Asphalt Delivering I51 - Fuel OiL/L Gas Deliveries I60 - Oil Field Maintenance & Service I90 - Other JOO - BUSINESS (90) J10 - Building Contractor J13 - Electrical Contractor J13 - Electrical Contractor J21 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
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 G40 - Drilling G50 - Exploration G90 - Other HOO - FOREST PROD. (90) IOO - SPECIAL INDUSTRIAL (90) II0 - Agriculture I20 - Shaft Mining I21 - Strip Mining I30 - Heavy Construction (Bridges, Roads, etc.) I31 - Special Trade Contractor I32 - Water Well Drilling I33 - Water, Oil, Gas, or Power Product Systems I40 - Newspaper Periodicals (Relay Press) I50 - Concrete Asphalt Delivering I51 - Fuel Oi/LP Gas Deliveries I60 - Oil Field Maintenance & Service I90 - Other JOO - BUSINESS (90) J10 - Building Contractor J13 - Electrical Contractor J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
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 110 - Agriculture 120 - Shaft Mining 121 - Strip Mining 130 - Heavy Construction (Bridges, Roads, etc.) 131 - Special Trade Contractor 132 - Water Well Drilling 133 - Water, Oil, Gas, or Power Product Systems 140 - Newspaper Periodicals (Relay Press) 150 - Concrete Asphalt Delivering 151 - Fuel Oil/LP Gas Deliveries 160 - Oil Field Maintenance & Service 190 - Other 100 - BUSINESS (90) 110 - Building Contractor 111 - Heavy Construction 112 - Excavating and Grading 113 - Electrical Contractor 120 - Wholesale Commercial Product Dealers 121 - Commercial & Industrial Machinery, Equipment & Supplies 130 - Retail Consumer Products
 120 - Shaft Mining 121 - Strip Mining 130 - Heavy Construction (Bridges, Roads, etc.) 131 - Special Trade Contractor 132 - Water Well Drilling 133 - Water, Oil, Gas, or Power Product Systems 140 - Newspaper Periodicals (Relay Press) 150 - Concrete Asphalt Delivering 151 - Fuel Oil/LP Gas Deliveries 160 - Oil Field Maintenance & Service 190 - Other JOO - BUSINESS (90) J10 - Building Contractor J11 - Heavy Construction J12 - Excavating and Grading J13 - Electrical Contractor J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 121 - Strip Mining 130 - Heavy Construction (Bridges, Roads, etc.) 131 - Special Trade Contractor 132 - Water Well Drilling 133 - Water, Oil, Gas, or Power Product Systems 140 - Newspaper Periodicals (Relay Press) 150 - Concrete Asphalt Delivering 151 - Fuel OiL/L Gas Deliveries 160 - Oil Field Maintenance & Service 190 - BUSINESS (90) J10 - Building Contractor J11 - Heavy Construction J12 - Excavating and Grading J13 - Electrical Contractor J20 - BUSINESS (July 2000) J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 130 - Heavy Construction (Bridges, Roads, etc.) 131 - Special Trade Contractor 132 - Water Well Drilling 133 - Water Well Drilling 133 - Water Well Drilling 133 - Water Well Maintenance & Service 150 - Concrete Asphalt Delivering 151 - Fuel Oil/LP Gas Deliveries 160 - Oil Field Maintenance & Service 190 - Other 100 - BUSINESS (90) 110 - Building Contractor 111 - Heavy Construction 112 - Excavating and Grading 113 - Electrical Contractor 120 - Wholesale Commercial Product Dealers 121 - Commercial & Industrial Machinery, Equipment & Supplies 130 - Retail Consumer Products
 Special Trade Contractor Water Well Drilling Water, Oil, Gas, or Power Product Systems Newspaper Periodicals (Relay Press) Concrete Asphalt Delivering Fuel Oil/LP Gas Deliveries O Oil Field Maintenance & Service O Other BUSINESS (90) BUSINESS (90) Building Contractor Heavy Construction Excavating and Grading Electrical Contractor Beletrical Contractor Commercial & Industrial Machinery, Equipment & Supplies Retail Consumer Products
 132 - Water Well Drilling 133 - Water, Oil, Gas, or Power Product Systems 140 - Newspaper Periodicals (Relay Press) 150 - Concrete Asphalt Delivering 151 - Fuel Oil/LP Gas Deliveries 160 - Oil Field Maintenance & Service 190 - BUSINESS (90) J10 - Building Contractor J11 - Heavy Construction J12 - Excavating and Grading J13 - Electrical Contractor J13 - Electrical Contractor J20 - BUSINESS (90) J21 - Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 133 - Water, Oil, Gas, or Power Product Systems 140 - Newspaper Periodicals (Relay Press) 150 - Concrete Asphalt Delivering 151 - Fuel Oil/LP Gas Deliveries 160 - Oil Field Maintenance & Service 190 - Other JOO - BUSINESS (90) J10 - Building Contractor J11 - Heavy Construction J12 - Excavating and Grading J13 - Electrical Contractor J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
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 150 - Concrete Asphalt Delivering 151 - Fuel Oil/LP Gas Deliveries 160 - Oil Field Maintenance & Service 190 - Other JOO - BUSINESS (90) J10 - Building Contractor J11 - Heavy Construction J12 - Excavating and Grading J13 - Electrical Contractor J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 151 - Fuel Oil/LP Gas Deliveries 160 - Oil Field Maintenance & Service 190 - Other JOO - BUSINESS (90) J10 - Building Contractor J111 - Heavy Construction J12 - Excavating and Grading J13 - Electrical Contractor J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 160 - Oil Field Maintenance & Service 190 - Other JOO - BUJSINESS (90) J10 - Building Contractor J11 - Heavy Construction J12 - Excavating and Grading J13 - Electrical Contractor J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 190 - Other JOO - BUSINESS (90) J10 - Building Contractor J11 - Heavy Construction J12 - Excavating and Grading J13 - Electrical Contractor J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 JOO - BUSINESS (90) J10 - Building Contractor J11 - Heavy Construction J12 - Excavating and Grading J13 - Electrical Contractor J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 J10 - Building Contractor J11 - Heavy Construction J12 - Excavating and Grading J13 - Electrical Contractor J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 J11 - Heavy Construction J12 - Excavating and Grading J13 - Electrical Contractor J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 J12 - Excavating and Grading J13 - Electrical Contractor J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 J13 - Electrical Contractor J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 J20 - Wholesale Commercial Product Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
Dealers J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
 J21 - Commercial & Industrial Machinery, Equipment & Supplies J30 - Retail Consumer Products
Equipment & Supplies J30 - Retail Consumer Products
J30 - Retail Consumer Products
J32 - Heating, Plumbing, Air Conditioning
Equipment Dealers
J33 - Fuel Oil/LP Gas Dealers
J34 - Building Material Dealers
J35 - Automobile Dealers
J36 - Gasoline Service Stations

J37 - Auto Tire, Battery & Accessory Parts Dealers

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	USINESS & INDUSTRIAL							
J38 -	Electronic Sales & Service							
	(Not included in J31)							
	Real Estate							
	J40 - Retail Services							
	Laundry & Dry Cleaning							
	Exterminators							
	Automobile Repair							
	Detective Agencies							
J45 -	Septic Tank & Sewer Service							
J46 -	Credit Agencies							
	Insurance Agencies							
	Commercial Products Sales & Service							
J51 -	Vending Machines							
J52 -	Paper and Pulp Two-Way Radio							
J53 -	Two-Way Radio							
	Agriculture							
	Manufacturing							
J90 -								
	IANUFACTURERS (90)							
	Chemicals							
K20 -	Primary Metals							
K21 -	Metal Working Textiles							
	Machinery							
	Other							
	OW POWER INDUSTRIAL (90)							
	under Business)							
	IOTOR CARRIER (90)							
N10 -	Local & Suburban Passenger							
	(Privately Owned)							
	Intercity Passenger							
N30 -	Local Trucking							
	Intercity Trucking							
N90 -	Other							
	ITIZENS (95)							
	Local and or Intercity Garage							
O20 -	Construction							
O30 -	Retail Sales							
O40 -	Service Trades							
O50 -	Personal Use							
O90 -	Other							
QOO - MISC. COMMON CARRIER (90)								
Q20 -	RCC Affiliated with MR							
Q30 -	RCC End-user							
Q40 -	Telephone Co. End-user							
YOO - A	UTO EMERGENCY (90)							
	Service Station or Garage Wrecker Service							
Y20 -	Wrecker Service							

- Y30 Automobile Club
- Y90 Other ZOO - TAXI (90)

PUBLIC SERVICE (Federal Government)

				Non-	Defense				-
	Non-	Non-GSA GSA				Non-GSA GSA		SA	
Agency	DOM	EXP	DOM	EXP	Agency	DOM	EXP	DOM	EXP
U.S. Fish & Wildlife Service	V10	V12	VlG	VIE	Bureau of Alcohol, Tobacco	370	372	37G	37E
Bureau of Land Mgt.	V20	V22	V2G	V2E	& Firearms				
Bureau of Indian Affairs	V30	V32	V3G	V3E	U.S. Customs Service	380	382	38G	38E
Bureau of Reclamation	V40	V42	V4G	V4E	U.S. Secret Service	390	392	39G	39E
National Park Service	V50	V52	V5G	V5E	White House	410	412	41G	41E
U.S. Forest Service	V60	V62	V6G	V6E	Communications Agency				
U.S. Coast Guard	V70	V72	V7G	V7E	Public Health Service	420	422	42G	42E
Dept. of Transportation	V80	V82	V8G	V8E	I.R.S.	430	432	43G	43E
Various Power Admin's.	V90	V92	V9G	V9E	National Weather Service	440	442	44G	44E
U.S. Postal Service	310	312	31G	31E	National Oceanographic &	450	452	45G	45E
Veterans Administration	320	322	32G	32E	Atmospheric Administration				
Drug Enforcement Admin.	330	332	33G	33E	Department of Labor	460	462	46G	46E
F.B.I.	340	342	34G	34E	Agency for International	470	472	47G	47E
U.S. Marshalls	350	352	35G	35E	Development				
Immigration &	360	362	36G	36E	Embassies/State	480	482	48G	48E
Naturalization Service					Department				
					Other Non-Defense	490	492	49G	49E

Defense GS Non-GS DOM EXP DOM EXP Agency Air Force W50 W52 W5G W5E W12 Armv W10 W1G W1E Navy W20 W22 W2G W2E W32 W3G Marines W30 W3E W40 W42 W4G W4E NSA Classified Acct's W60 W62 W6G W6E NASA W70 W72 W7G W7E Red Cross W80 W82 W8G W8E Other Defer W90 W92 W9G W9E

PUBLIC SERVICE

AOO - POLICE (90) A10 - Municipal A20 - County A30 - State Agency A90 - Other BOO - FIRE (90)

B10 - Municipal Paid B20 - Municipal Volunteer B30 - County Paid B40 - County Volunteer B90 - Other

E60 - Civil Defense E70 - Search-Rescue

E/0 - Search-Rescue E90 - Other FOO - LOCAL GOVERNMENT (90) F10 - Municipal F20 - State Agency F90 - Other

IOO - SPECIAL INDUSTRIAL (90) I70 - Telephone Maintenanc MOO - POWER (90)

M10 - Municipally Owned Utility M20 - State Owned Utility M30 - Cooperative Utility

M40 - Privately Owned Electric Co. M50 - Privately Owned Gas Co. M60 - Privately Owned Water Co. M90 - Other NOO - MOTOR CARRIER (90)

N60 - Mass Transit (Public) POO - INDEPENDENT TELEPHONE (21) Q10 - MISC. COMMON CARRIER (90) (RCC Not affiliated with MR) SOO - TRAFFIC (90) (Include Local Government) TOO - TRANSPORTATION (90) T10 - Railroad T20 - Airlines

100 - Western Electric/Bell IMTS. 200 - Western Electric/Bell Other

T30 - Steamship Lines

BELL SYSTEM

COO - FORESTRY CONSERVATION (90) DOO - HIGHWAY MAINTENANCE (90) EOO - SPECIAL EMERGENCY (90)

E10 - Ambulance Service (Publicly Owned) E40 - School Bus (Publicly Owned) E50 - Hospital (Publicly Owned)

HAZARDOUS ATMOSPHERE CATEGORIES

Typical certification information is shown herein. See product data sheets for actual product specifications. Selected portable radios with appropriate factory installed options are certified as Intrinsically Safe for use in Division 1 Class I, hazardous locations in the presence of Gas Groups C and D atmospheres, Class III hazardous locations in the presence of Gas Groups E, F, and G atmospheres, Class III hazardous locations, and as **Nonincendive** for use in Division 2, Class I hazardous locations in the presence of Gas Groups A, B, C, and D.

INTRINSICALLY SAFE

Electrical equipment that is incapable of releasing sufficient electrical or thermal energy under normal or abnormal operating conditions to cause ignition of a specific hazardous mixture and air.

NON-INCENDIVE

Electrical equipment that is incapable of releasing sufficient electrical or thermal energy under normal operating conditions only which cause ignition of a specific hazardous mixture and air.

Class I, Division 1. A Class I, Division 1 location is a location: (1) in which hazardous concentrations of flammable gases or vapors exist continuously, intermittently, or periodically under normal operating conditions; or (2) in which hazardous concentrations of such gases or vapors may exist frequently because of repair or maintenance operations or because of leakage; or (3) in which breakdown or faulty operation of equipment or processes that might release hazardous concentrations of flammable gases or vapors, and might also cause simultaneous failure of electric equipment.

Class I, Division 2. A Class I, Division 2 location is a location: (1) in which volatile flammable liquids or flammable gases are handled, processed, or used, but in which the hazardous liquids, vapors, or gases will normally be confined within closed containers or closed systems from which they can escape only in case of accidental rupture or breakdown of such containers or systems, or in case of abnormal operation of equipment; or (2) in which hazardous concentration of gases or vapors are normally prevented by positive mechanical ventilation, and which might become hazardous through failure or abnormal operation of the ventilating equipment; or (3) that is adjacent to a Class I, Division 1 location, and to which hazardous such communication is prevented by adequate positive-pressure ventilation from a source of clear air, and effective safeguards against ventilation failure are provided.

Class II, Division 1. A Class II, Division 1 location is a location: (1) in which combustible dust is or may be in suspension in the air continuously, intermittently, or periodically under normal operating conditions, in quantities sufficient to produce explosive or ignitable mixtures; or (2) where mechanical failure or abnormal operation of machinery or equipment might cause such explosive or ignitable mixtures to be produced, and might also provide a source of ignition through simultaneous failure of electric equipment, operation of protection devices or from other causes; or (3) in which combustible dusts of an electrically conductive nature may be present.

Class II, Division 2. A Class II, Division 2 location is a location in which combustible dust will not normally be in suspension in the air or will not be likely to be thrown into suspension by the normal operation of equipment or apparatus in quantities sufficient to produce explosive or ignitable mixtures, but: (1) where deposits or accumulations of such combustible dust may be sufficient to interfere with the safe dissipation of heat from electric equipment or apparatus; (2) where such deposits or accumulations of combustible dust on, in, or in the vicinity of electric equipment might be ignited by arcs, sparks, or burning material from such equipment.

Class III, Divisions 1 & 2. Class III locations are those which are hazardous because of the presence of ignitable fibers or flyings. Equipment listed for installation in Class III locations is designed to exclude the fibers and flyings from the equipment enclosure and to function without developing excessive surface temperatures.

Group C Atmospheres Chemical

acetaldehyde allyl alcohol n-butyraldehyde carbon monoxide crotonaldehyde

carbon monoxide crotonaldehyde cyclopropane diethyl ether diethylamine epichlorohydrin ethylene

Group D Atmospheres Chemical

acetic acid (glacial) acetone acrylonitrile ammonia¹ benzene butane 1-butanol (butyl alcohol) 2-butanol (secondary butyl alcohol) n-butvl acetate isobutyl acetate di-isobutylene ethane ethanol (ethyl alcohol) ethyl acetate ethyl acrylate (inhibited) ethylene diamine (anhydrous) ethylene dichloride ethylene glycol monomethyl ether gasoline heptanes hexanes isoprene isopropyl ether mesityl oxide

ethylenimine ethyl mercaptan ethyl sulfide hydrogen cyanide hydrogen sulfide morpholine 2-nitropropane tetrahydrofuran unsymmetrical dimethyl (UDMH 1, 1-dimenthyl hydrazine)

methane (natural gas) methanol (methyl alcohol) 3-methyl-1-butanol (isoamyl alcohol) methyl ethyl ketone methyl isolbutyl ketone 2-methyl-1-propanol (isobutyl alcohol) 2-methyl-2-propanol (tertiary butyl alcohol) petroleum naptha2 pyridine octanes pentanes 1-pentanol (amyl alcohol) propane 1-propanol (propyl alcohol) 2-propanol (isopropyl alcohol) propylene styrene toluene vinyl acetate vinyl chloride xvlenes

¹ For classification of areas involving ammonia atmosphere, see Safety Code for Mechanical Refrigeration (ANSI/ASHRAE 15-1978) and Safety Requirements for the storage and handling of Anhydrous Ammonia (ANSI/CGA G2.1-1972).

 2A saturated hydrocarbon mixture boiling in the range 20-135°C (68-275°F). Also known by the synonyms benzene, ligroin, petroleum ether, or naptha.

Group E Atmospheres

Atmospheres containing metal dust, including aluminum, magnesium, and their commercial alloys, and other metals of similarly hazardous characteristics.

Group F Atmospheres

Atmospheres containing carbon black, charcoal or coke dusts which have more than 8 percent total volatile material (carbon black per ASTM D1620, charcoal, coal and coke dusts per ASTM D271) or atmospheres containing these dusts sensitized by other materials so that they represent an explosion hazard.

Group G Atmospheres

Atmospheres containing flour, starch, grain, or combustible plastics or chemical dusts.

Explanation of the classes, divisions and atmospheres above can be found in Article 500 of the National Electrical Code.

CUSTOMER CONTACT INFORMATION

Customer Care

UNITED STATES

1-800-368-3277 (telephone) 1-321-409-4393 (fax) PSPC CustomerFocus@l3harris.com (U.S. email)

FEDERAL

1-800-368-3277 (telephone) 1-321-409-4393 (fax) PSPC FedCustFocus@l3harris.com (Federal email)

INTERNATIONAL/CANADA

1-434-385-2804 (telephone) 1-321-409-4394 (fax) PSPC InternationalCustomerFocus@l3harris.com (International email)

Technical Assistance Center (TAC)

UNITED STATES/CANADA

1-800-528-7711 (telephone) 1-434-455-6712 (fax) PSPC_TAC@l3harris.com (email)

INTERNATIONAL

1-434-385-2400 (telephone) 1-434-455-6712 (fax) PSPC_TAC@l3harris.com (email)

Technical Training

UNITED STATES/CANADA

1-434-455-9469 (telephone) 1-434-455-6788 (fax) wanda.mcgee@l3harris.com (email)

INTERNATIONAL

1-434-455-9469 (telephone) 1-434-455-6788 (fax) wanda.mcgee@l3harris.com (email)

MAILING ADDRESS:

L3Harris Technologies Public Safety and Professional Communications 221 Jefferson Ridge Parkway Lynchburg, VA 24501 ATTENTION:

(Appropriate Department)

FOR APPLICATION IN THE USA ONLY **CUSTOMER FINANCIAL SERVICES**

NAME	FUNCTION	TELEPHONE	FAX
Don Hathaway	Chief Financial Senior Director, Finance	434-455-9223	434-455-6772
Mike Layman	Director, Financial Planning & Analysis	434-455-9685	434-455-6772
Marlene Streath	Manager, Bids & Proposal Finance	434-455-9286	434-455-6772

MAILING ADDRESS:

L3Harris Technologies Public Safety and Professional Communications 221 Jefferson Ridge Parkway Lynchburg, VA 24501 ATTENTION: _________(Appropriate Department)

FOR APPLICATION IN THE USA ONLY STANDARD PAYMENT TERMS AND FINANCING PLANS

Any deviation from "standard terms" must have prior approval by the Business Unit CFO before being quoted or obtaining a signed order from the purchaser. All orders are subject to acceptance at Lynchburg, Virginia.

OPEN ACCOUNT TERMS

- 1. Products & Services Net 30 days from invoice date.
- 2. Systems & Trunking Terms are based upon milestones established in the contract.

LATE CHARGES

If invoices are not paid when due, Late Charges will be assessed to the account at the legal rate allowed (usually 1.5% monthly) on the unpaid delinquent balance. Late Charges are due in full at the time of settlement.

CASH ON DELIVERY (COD)

- Order must be signed and 10% deposit required.
- Shipment must be direct to the customer.
- Carrier will require payment in the form of CASH, CASHIERS or CERTIFIED CHECK.

CASH WITH ORDER (CWO)

• Check must be for the total order value including tax and any premium freight charges.

REGULAR AND STANDBY LETTER OF CREDIT

• Letters of Credit are a guarantee of payment on account by the issuing Bank. This is a Credit/Sales tool used to open up new or marginal accounts until a satisfactory pay record has been established.

END USER FINANCING

Tax exempt financing for qualified end users acquiring L3Harris equipment and services is available through strategic financing partners, such as PNC, BOA, and other financing agencies. Sales Contact information is available on the L3Harris website.

FOR APPLICATION IN THE USA ONLY ORDER ACCEPTANCE AND DOCUMENTATION

- All orders are subject to the most current version of L3Harris Technologies' Standard Terms and Conditions of Sale.
- ALL orders require Credit review and approval. Do Not release any "consignment" equipment until the order is approved.
- When placing an order on our Equipment Order Form, the exact legal name of the business must be shown along with the title or position of the person signing. If the customer elects to use his or her company's purchase order form in lieu of signing our order forms, the purchase order must show the following:
 - 1. PO must be made out to "L3Harris."
 - 2. Terms of payment must be indicated.
 - 3. A "ship to" address must be indicated.
 - 4. Total amount of the order must be indicated.
 - 5. Contract or PO is signed by the customer and authorized L3Harris personnel.
 - 6. Contract or order represents an irrevocable notice to proceed.
 - 7. All required frequencies have been licensed.
 - 8. Description of products being sold is stated.
 - 9. Estimated date of delivery is defined.

All orders and related documents are legal agreements between the customer and L3Harris. Any deficiencies in these documents can seriously jeopardize our ability to enforce the contract. Any changes or alterations on the L3Harris order forms or the customer's purchase order must be initialed by the customer.

Communication equipment may be sold direct to a Leasing Company providing a financing service for an end user subject to the following:

- The order must identify the end user for warranty purposes.
- Equipment cannot be sold to a Leasing Company owned or controlled by a Dealer.

- A copy of the proposal and/or bid specifications, including payment terms and conditions of sale, must accompany our Equipment Order Form on all orders resulting from Bids and Proposals.
- All orders are subject to acceptance at Lynchburg, Virginia. In the event acceptance of a proposal by the customer would bind the company upon such acceptance by the customer, credit review and approval of the proposal must be obtained in advance.

FOR APPLICATION OUTSIDE THE USA

- Any order which does not comply with the international standard terms and conditions (including all orders submitted on customer purchase order forms) is subject to review and written acceptance by L3Harris Technologies at Lynchburg, Virginia.
- Should payment be by letter-of-credit, then it must:
 - 1. Be confirmed and irrevocable.
 - 2. Be placed on a major US bank.
 - 3. Have all banking charges the responsibility of the applicant.
 - 4. Stipulate payment on sight.
 - 5. Have an expiration date sufficient to allow manufacture of equipment.
 - 6. Be subject to acceptance at Lynchburg, Virginia.

SALES TO LEASING COMPANIES

- A 10% deposit from the Leasing Company is required with the order.
- The order should be written on our Equipment Order Form and signed by an authorized officer. Purchase orders direct from a Leasing Company in lieu of a signed Equipment Order Form are subject to review and acceptance in regards to terms and conditions, i.e.; payment, delivery, cancellation, warranty, etc.

CUSTOMER CREDIT APPLICATION

	Public Saf Attn: Cus 221 Jeffer	Fechnologies Fety and Professional C tomer Financial Servi son Ridge Parkway g, VA 24501		
CUSTOMER LEGAL NAME:	-	-		
COMPLETE STREET ADDRESS				
				ZIP:
FOR THE PURPOSE OF ESTAB	LISHING CRED	IT, WE/I SUBMIT THE	E FOLLOWING DATA:	
1. ANTICIPATED CREDIT REQ	UIREMENTS: \$	S		
2. BUSINESS STARTED (MO/Y	′R):	TYPE	E BUSINESS:	
3. BUSINESS IS ACOF	RPORATION	PARTNERSHIP	PROPRIETORSHIP	
4. NAMES OF OFFICERS, PAR	TNERS OR OW	NER(S):		
NAME			TITLE	
NAME			TITLE	
NAME			TITLE	
5. BANK REFERENCE:				
NAME:			ACCT. #	
STREET:				
				ZIP:
TELEPHONE:			CONTACT:	
6. TRADE REFERENCES (NO G	CREDIT CARD):	:		
NAME:			ACCT. #	
STREET:				
CITY:			STATE:	ZIP:
TELEPHONE:			CONTACT:	
NAME:			ACCT. #	
STREET:				
CITY:			STATE:	ZIP:
TELEPHONE:			CONTACT:	
NAME:			ACCT. #	
STREET:				
CITY:			STATE:	ZIP:
TELEPHONE:			CONTACT:	
PLEASE ATTACH A COPY OF CONFIDENCE AND USED ONI			ID P&L STATEMENTS W	HICH WILL BE HELD IN STRICT
SIGNATURE:		-	FITLE:	DATE:

FOR APPLICATION IN THE USA ONLY

UNIFORM COMMERCIAL CODE (UCC-1) FINANCING STATEMENT

PURPOSE

• To be filed/recorded with the Secretary of State and/or local County Clerk to perfect a security interest (lien) on the equipment being financed.

REQUIRED FOR

• All financing terms excluding the Equity Lease for Governmental Agencies.

COMPLETING THE UCC-1 FORM

- Most states require the UCC-1 form to be typed.
- Use complete legal name and address of the purchaser (same as on the contract).
- Secured Party is: L3Harris Technologies, Public Safety and Professional Communications, P.O. Box 2000, Lynchburg, VA 24501. (Will be signed in Lynchburg, Virginia.)

- List quantity and description of major items of equipment.
- Purchaser must sign (same as on the contract).

WHICH FORMS TO USE AND HOW MANY

• The next page contains a list by state showing the UCC-1 requirements. The requirements for filing are determined by each state and subject to change, therefore additional documentation could be required to perfect our security interest.

FOR APPLICATION IN THE USA ONLY UNIFORM COMMERCIAL CODE (UCC-1)

UNIFU	KWI COMIMIEKCIAL CODE (UCC-1)	
State	Form Required	Copies Required
Alabama	Standard	1
Alaska	Alaska	1
Arizona	Arizona Only	1
Arkansas	Standard	2
California	California Only	1
Colorado	Standard	1
Connecticut	Standard	1
Delaware	Standard	1
District of Columbia	Standard	1
Florida	Florida Only	1
Georgia	Standard	1
Hawaii	Hawaii Only	1
Idaho	Standard	1
Illinois	Illinois Only	1
Indiana	Standard	1
Iowa	Standard	1
Kansas	Standard	1
Kentucky	Standard	1
Louisiana	Chattel Mortgage Only	NA
Maine	Standard	1
Maryland	Maryland Only	2
Massachusetts	Standard	2
Michigan	Michigan	1
Minnesota	Minnesota Only	1
Mississippi	Mississippi	2
Missouri	Standard	2
Montana	Standard	1
Nebraska	Standard	1
Nevada	Nevada Only	2
New Hampshire	Standard	2
New Jersey	New Jersey	1
New Mexico	Standard	1
New York	New York	2
North Carolina	Standard	2
North Dakota	Standard	1
Ohio	Standard	2
Oklahoma	Standard	1
Oregon	Oregon	1
Pennsylvania	Pennsylvania Only	2
Rhode Island	Standard	1
South Carolina	Standard	1
South Dakota	Standard	1
Tennessee	Standard	1
Texas	Texas Only	1
Utah	Utah	1
Vermont	Standard	2
Virginia	Virginia Only	2
Washington	Washington Only	1
West Virginia	Standard	2
Wisconsin	Standard	1
Wyoming	Standard	1

SUPPORT PACKAGES

Product Code: SS

<u>Basic:</u>

- Software Updates
- Technical support available 8
 hours per day, 5 days per week
- Access to Tech-Link web portal

Standard:

- Software Updates
- Technical Support available 24
 hours per day, 7 days per week
- Access to Tech-Link Web portal
- Extended Warranty
- Annual Consultation (System Purchases)

Enhanced:

 All items contained in the standard package plus optional offerings based on customer requirements.

Critical Communications Support (CCS) and Extended Warranty

L3Harris provides Critical Communications Support (CCS) and Extended Warranty options for L3Harris-Tait co-branded products. CCS is a unique blend of services and tools that enable customers to work proactively to ensure communications systems are operating at peak performance.

Our customers rely on their communications systems to protect lives. The CCS program helps L3Harris customers guard their systems against obsolescence brought on by continual advancements in mobile communications technology. The CCS program not only protects the customer's initial system investment, but helps that investment grow with technology advancements.

The CCS packages include technical service desk support for 24 hours per day, 7 days per week for Infrastructure (8 hours per day, 5 days per week for terminals), on-going software maintenance, and the ability to select extended warranty options. Optional services alongside the purchase of CCS include Onsite Preventive Maintenance Service and Onsite Dispatch-Restoration Service, NOC monitoring, customized training, and more.

CCS subscribers periodically receive software updates applicable to their systems and subscriber units. These releases contain improvements and enhancements for current generation system software as well as new product capability and the ability to enable licensed features. Customers are responsible for software installation; however, L3Harris can quote this service as an option to a Service Advantage package.

CCS subscriptions can be purchased on either an annual or multi-year basis. If extended warranty is also desired, it must be purchased at point of sale. Subscription fees are based upon the size and complexity of the customer's system. For specific pricing information, contact your assigned Sales Representative or the Technical Support Services team.

L3Harris recommends that customers purchase installation support from the Field Service organization. This support may range from on-site planning assistance to a complete preventive maintenance program to include the installation of the software upgrade. The Regional Service Manager prepares a customized quotation for such service.

CCS provides:

- Periodic software releases
- Free subscription to the Tech-Link Web page
- Technical support from the L3Harris Technical Assistance Center
- A system-wide update to the current software release for all system elements upon enrollment
- Enhancements for existing features
- New features built upon earlier generations of software
- The ability to enable licensed features

SUPPORT PACKAGES

Product Code: SS

Terminals

	E/C	Model No.	List Price \$ (per unit per year)	Description
S		SS-Y1EWP-P25		WARRANTY, EXT, 1YR, L3HARRIS-TAIT P25 RADIO
S		SS-Y2EWP-P25		WARRANTY, EXT, 2YR, L3HARRIS-TAIT P25 RADIO
S		SS-Y3EWP-P25		WARRANTY, EXT, 3YR, L3HARRIS-TAIT P25 RADIO
S		SS-Y1EWP-DMR		WARRANTY, EXT, 1YR, L3HARRIS-TAIT DMR RADIO
				WARRANTY, EXT, 2YR, L3HARRIS-TAIT DMR RADIO
				WARRANTY, EXT, 3YR, L3HARRIS-TAIT DMR RADIO
				Not available for TP3300

All CCS packages will begin after the end of the Manufacturer's Warranty Period and will automatically include Extended Warranty. Coverage is capped at two additional years for the TP3300 terminal (five total years including Manufacturer's Warranty) and three additional years for all other terminals (five total year including Manufacturer's Warranty). CCS with Extended Warranty must be purchased at point of sale, accessories excluded (batteries, antennas, chargers, etc.).

Infrastructure

	E/C	Model No.	List Price \$	Description
Ι		SS-SN4E	CALL	WARRANTY, EXTENDED, L3HARRIS-TAIT SYSTEM
				Requires MASS-NSN7Z
Ι	J	MASS-NSN7Z	CALL	SVC, CCS, L3HARRIS-TAIT SYSTEM
Ι	J	SS-SN4T	0.01	SVC, CC SUPPORT, SYSTEM, EXTENDED

CCS can be purchased at point of sale or after the System ships to the customer; however, there is an additional charge to purchase CCS after shipment.

Optional Infrastructure Extended Warranty Coverage: Extended Warranty may be added to any CCS agreement to cover normal wear and tear for up to five additional years after the Manufacturer's Warranty has expired for up to a total of seven years of coverage. Extended Warranty is not available without CCS and must be purchased at point of sale, prior to equipment shipping.

EXPORT CONTROL NOTE: Our products may require a validated Export License issued by the Department of Commerce prior to exporting from the United States.

Ordering Information

1. For infrastructure, a System Support Agreement must be completed by the salesperson and signed by the customer when the order is placed. The completed agreement should be sent directly to:

Manager, Technical Support Services L3Harris Technologies, Inc. 221 Jefferson Ridge Parkway P.O. Box 2000 Lynchburg, VA 24501

2. If you have any questions on these services or need assistance in completing the agreement, please contact Manager, Technical Support Services at the telephone or fax numbers shown below.

Telephone 1-800-528-7711 in the U.S. and Canada 1-434-385-2400 Worldwide

Fax 1-434-455-6712

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Technical training courses are conducted at a customer's location. The List Prices provided are to conduct the course one time at a facility provided by the customer within the continental United States for up to eight students and includes the instructor's travel and living expenses.

TAIT-POWERED DMR TIER III TRAINING

Three courses on the Tait-powered DMR Tier III system solution are recommended for network managers, communication engineers, technical support personnel, and maintenance technicians. The following table provides a list of standard training courses. The table includes the course number and length.

	Course No.	On-Site
Tait-Powered DMR Tier III Training		
DMR Tier III Configuration & Maintenance	YTSN4J-B	5 days
DMR Tier III EnableFleet Configuration & Management	YTSN4K-B	5 days
DMR Tier III GridLink Configuration & Operation	YTSN4L-B	5 days

Please note that on-site delivery of the *DMR Tier III EnableFleet Configuration & Management* and *DMR Tier III GridLink Configuration & Operation* courses can each be reduced from 5 days to 2¹/₂ days if conducted consecutively with the *DMR Tier III Configuration & Maintenance* course.

E/C	Model No.	List Price \$	Description
N	YTSN4J-B		DMR TIER III CONFIGURATION & MAINTENANCE This course provides participants with a working knowledge of setting up and supporting the operation of the Tait-powered DMR Tier III system. The course will help students become familiar with the key features of their new system. Topics include fleet management, mobile and portable radio configuration as well as network features, diagnostics, and basic maintenance. Upon completion of this course, participants will be able to describe DMR subscriber numbering; describe DMR call features; demonstrate basic use of the subscriber unit programming software; use the programming software to configure a subscriber unit to operate on a trunked network; successfully upgrade the firmware in a subscriber unit; describe features and architecture of the TB9300; demonstrate configuration, monitoring, module replacement and testing of the TB9300; demonstrate DMR site commissioning procedures; perform fleet management tasks of the Network Management Interface; and demonstrate operation of EnableMonitor.
N	YTSN4K-B		DMR TIER III ENABLEFLEET CONFIGURATION & MANAGEMENT This course allows students to understand key aspects of the EnableFleet system. The architecture and features of EnableFleet are introduced, followed with significant practical sessions on how to manage radio configuration using the Manager and Client interfaces. A review of radio unit programming is used to create configuration templates and develop EnableFleet customization profiles. Upon completion of this course, participants will be able to explain the fleet management features of EnableFleet; describe the data sources managed by EnableFleet; describe the features and functions of EnableFleet Manager; describe the features and functions of EnableFleet Client; define the scope of requirements for radio unit programming, use the programming software to configure a radio unit to generate a group configuration template; generate group customization profiles and perform device import to EnableFleet; perform configuration and diagnostics of DMR Mobile IP demonstrate configuration and operation of EnableFleet Manager; and demonstrate operation of EnableFleet Client.

TECHNICAL TRAINING

TAIT-POWERED DMR TIER III TRAINING (Cont'd)

E/C	Model No.	List Price \$	Description
N	YTSN4L-B		DMR TIER III GRIDLINK CONFIGURATION & OPERATION This course introduces participants to the GridLink network architecture and numbering requirements. Practical sessions allow the student to get familiar with configuration of the SCADA Gateway and TD9300 Data Terminal. Upon completion of this course, participants will be able to explain trunking; describe DMR call types; describe DMR call features; describe DMR subscriber numbering; demonstrate basic use of the subscriber unit programming software; use the programming software to configure a subscriber unit to operate on a trunked network; explain the features of the DMR Network Management Interface; perform fleet management tasks of the Network Management Interface; explain the network features and benefits of the GridLink solution; describe the architecture and features of the GridLink network; describe the available GridLink data services, and call handling mechanisms; describe the key system engineering considerations for implementing a GridLink solution on a Tait-powered DMR Tier III network; design a successful addressing scheme for GridLink; demonstrate configuration of a Tait-powered GridLink system; and integrate and test the GridLink solution.

TAIT-POWERED P25 CONVENTIONAL TRAINING

The *P25 Conventional Configuration & Maintenance Course* on the Tait-powered P25 conventional system solution is recommended training for network managers, communication engineers, technical support personnel, and maintenance technicians. The following table provides a list of the standard training course. The table includes the course number and length.

	Course No.	On-Site
Tait-Powered P25 Conventional Training		
P25 Conventional Configuration & Maintenance	YTSN4M-B	5 days

E/C	Model No.	List Price \$	Description
N	YTSN4M-B	22,685.00	.P25 CONVENTIONAL CONFIGURATION & MAINTENANCE This course provides an advanced working knowledge of the Tait-powered P25 conventional system. The course covers system monitoring, basic fault diagnostics, the configuration of replacement parts, and the replacement of faulty modules. Upon completion of this course, participants will be able to identify the devices and modules that make up the Tait-powered P25 conventional radio system; monitor network status using Syslog and the Customer Service Software (CSS) and identify faulty devices or modules; create backups of the network configuration; exchange faulty repeater equipment (i.e., Reciter, Power Amplifier, Power Management Unit); demonstrate the correct preparation of a spare repeater and CG; demonstrate the correct procedure to upgrade the network software; and demonstrate the ability to troubleshoot the network and locate the fault.

TAIT-POWERED P25 TRUNKING TRAINING

Three courses on the Tait-powered P25 trunking system solution are recommended for network managers, communication engineers, technical support personnel, and maintenance technicians. The following table provides a list of standard training courses. The table includes the course number and length.

	Course No.	On-Site
Tait-Powered P25 Trunking Training		
P25 Trunking Configuration & Maintenance	YTSN4N-B	5 days
P25 Trunking EnableFleet Configuration & Management	YTSN4P-B	5 days
P25 Trunking KMF Configuration, Administration &	YTSN4R-B	5 days
Management		

Please note that on-site delivery of the *P25 Trunking EnableFleet Configuration & Management* and *P25 Trunking KMF Configuration, Administration & Management* courses can each be reduced from 5 days to 2¹/₂ days if conducted consecutively with the *P25 Trunking Configuration & Maintenance* course.

E/C	Model No.	List Price \$	Description
N	YTSN4N-B	22,685.00	P25 TRUNKING CONFIGURATION & MAINTENANCE This course provides an advanced working knowledge of the Tait-powered P25 trunked system. The course covers system monitoring, basic fault diagnostics, the configuration of replacement parts, and the replacement of faulty modules. Upon completion of this course, participants will be able to identify the devices and modules that make up the Tait-powered P25 trunked radio system; monitor network status using SNMP and identify faulty devices; monitor repeater status using the Customer Service Software (CSS) and identify faulty modules; create backups of the network configuration; exchange faulty network equipment (e.g., Universal Controllers); and exchange faulty repeater equipment (i.e., Reciter, Power Amplifier, Power Management Unit).
N	YTSN4P-B	22,685.00	P25 TRUNKING ENABLEFLEET CONFIGURATION & MANAGEMENT This course allows students to understand key aspects of the EnableFleet system. The architecture and features of EnableFleet are introduced, followed by practical sessions on how to manage radio configuration using the manager and client interfaces. A review of radio unit programming is used to create configuration templates and develop EnableFleet customization profiles. Upon completion of this course, participants will be able to explain the fleet management features of EnableFleet; describe the data sources managed by EnableFleet; describe the features and functions of the EnableFleet Manager; describe the features and functions of the EnableFleet Client; define the scope of requirements for radio unit programming; use the programming software to configure a radio unit to generate a *group configuration template; generate group customization profiles and perform device import to EnableFleet; demonstrate configuration and operation of the EnableFleet Manager; and demonstrate operation of the EnableFleet Client.
N	YTSN4R-B	22,685.00	P25 TRUNKING KMF CONFIGURATION, ADMINISTRATION & MANAGEMENT This course is for customers who are implementing the Key Management Facility (KMF) on their Tait-powered P25 trunking radio system. The course includes an introduction to P25 encryption, Key Fill Device operation, and KMF configuration, operation and administration. Upon completion of this course, participants will be able to demonstrate logging into the KMF server; carry out the initial tasks a Security Officer must complete to prepare the KMF for use by Crypto Officers; explain the effect of changing the system security settings; carry out the initial tasks a Crypto Officer must complete to prepare the KMF to manage keys; create provisioning keys and provision radios; create and monitor key update tasks; manage lost or stolen radios; carry out diagnostics and manage problem radios; demonstrate backing up and restoring the database; and demonstrate monitoring the KMF and retrieving log files.

TAIT-POWERED ANALOG SIMULCAST IP TRAINING

The *P25 Conventional Configuration & Maintenance Course* on the Tait-powered P25 conventional system solution is recommended training for network managers, communication engineers, technical support personnel, and maintenance technicians. The following table provides a list of standard training courses. The table includes the course number and length.

	Course No.	On-Site
Tait-Powered Analog Simulcast IP Training		
Analog Simulcast Configuration & Maintenance	YTSN4S-B	4 days

E/C	Model No.	List Price \$	Description
N	YTSN4S-B		ANALOG SIMULCAST CONFIGURATION & MAINTENANCE This course enables participants to perform key system support and maintenance tasks on the Tait-powered Analog Simulcast IP (AS-IP) system and includes TB9400 configuration and maintenance. Upon completion of this course, participants will be able to identify the devices and modules that make up the Tait-powered Analog Simulcast radio system; monitor network status using Syslog and the web interface, and identify faulty devices or modules; create backups of the network configuration; exchange faulty repeater equipment (i.e., Reciter, Power Amplifier, Power Management Unit); demonstrate the correct preparation of a spare repeater and CG; demonstrate the correct procedure to upgrade the network software; and demonstrate the ability to troubleshoot the network and locate the fault.

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TP9600

TP9600 P25 Portable Radio



The L3Harris TP9600 offers 12.5 kHz P25 Phase 1 FDMA conventional/trunked and 6.25 kHz equivalent P25 Phase 2 TDMA trunked capability as well as analog operation. Designed for ease of use, this P25 Portable features intuitive controls and a color screen for enhanced usability. Active noise cancellation and noise suppression technologies reduce background sounds while enhancing voice transmissions, ensuring First Responders have loud and clear audio.

Each radio comes with the following hardware features as standard:

- GPS Display
- MDC1200 Encode/Decode
- P25 Trunked PSTN Dialling
- Two-Tone Decode
- Voice Annunciations
- Bluetooth[®]
- 5-Tone Selcall
- Alphanumeric ID
- P25 OTAP Capability*
- WiFi[®] OTAP Capability*

*Requires EnableFleet

Step One (1 of 4) – Select a radio body [based on the frequency band, and keypad type] and an antenna option.				
E/C	E/C Model Number Description List Price			
VHF (136-174 MHz) – SCAN (4-Key)				
S TP9655B1BC-H Portable, TP9600, 136-174M, Scn, Blk \$1,450.00				

VHF (136-174 MHz) – SYSTEM (16-Key)			
S	TP9660B1BC-H	Portable, TP9500, 136-174M, Sys, Blk	\$1,500.00

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E/C	Model Number	Description	List Price			
VHF An	VHF Antenna Options					
S	TPA-AN-001	Antenna, 136-225MHz, Hel Tun	\$22.00			
S	TPA-AN-002	Antenna, 136-151MHz, Hel	\$22.00			
S	TPA-AN-003	Antenna, 150-162MHz, Hel	\$22.00			
S	TPA-AN-004	Antenna, 162-174MHz, Hel	\$22.00			
S	TPA-AN-034	Antenna, 136-174MHz, Hel	\$30.00			
UHF-L (378 – 470 MHz) - SCAN (4-Ke	ey)				
s	ТР9655НКВС-Н	Portable, TP9600, 378-470M, Scn, Blk	\$1,450.00			
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UHF-L (UHF-L (378 – 470 MHz) – SYSTEM (16-Key)					
S	TP9660HKBC-H	Portable, TP9600, 378-470M, Sys, Blk	\$1,500.00			

UHF-L Antenna Options					
S	TPA-AN-037	Antenna, 378-470MHz, 1/4 Wave Whip	\$22.00		
S	TPA-AN-038	Antenna, 378-470MHz, Hel	\$22.00		
S	TPA-AN-011	Antenna, 400-470MHz, Whip	\$22.00		
S	TPA-AN-013	Antenna, 400-470MHz, Hel	\$22.00		

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E/C	Model Number	Description	List Price			
UHF-H	UHF-H (450 – 520 MHz) - SCAN (4-Key)					
S	TP9655H7BC-H	Portable, TP9600, 450-520M, Scn, Blk	\$1,450.00			
UHF-H	(450 – 520 MHz) – SYSTEM (1	6-Кеу)				
S	TP9660H7BC-H	Portable, TP9600, 450-520M, Sys, Blk	\$1,500.00			
UHF-H	Antenna Options					
S	TPA-AN-012	Antenna, 450-520MHz, Whip	\$22.00			
S	TPA-AN-015	Antenna, 450-520MHz, Hel	\$22.00			
700/800) MHz (764 – 870 MHz) - SCAN	l (4-Key)				
S	TP9655K5BC-H	Portable, TP9600, 762-870M, Scn, Blk	\$1,450.00			
700/800) MHz (764 – 870 MHz) - SYST	ЕМ (16-Кеу)				
S	TP9660K5BC-H	Portable, TP9600, 762-870M, Sys, Blk	\$1,500.00			
700/800	700/800 Antenna Options					
S	TPA-AN-022	Antenna, 762-870MHz,1/2 Wave Whip	\$22.00			
S	TPA-AN-028	Antenna, 762-870MHz, 1/4 Wave Stub	\$22.00			

Step Two (2 of 4) – Select a battery and a charger			
E/C	Model Number	Description	List Price

Battery	Battery Options				
S	T03-00011-AAAA	Battery, Li-Ion 1880mAh	\$93.00		
S	T03-00011-ABAA	Battery, Li-Ion 1880mAh w/ Belt Clip	\$104.00		
S	T03-00011-CAAA	Battery, Li-Ion 2400mAh	\$114.00		
S	T03-00011-CBAA	Battery, Li-Ion 2400mAh w/ Belt Clip	\$125.00		
S	TPA-CA-201	Belt Clip 55mm	\$11.00		
S	TPA-CA-207	Belt Loop for D-Clip 75mm	\$20.00		
S	TPA-CA-208	Belt Clip Adaptor for 55mm	\$16.00		

Charger Options				
S	T03-00012-AAFA	Charger Single Fast Li-Ion No plug pack	\$66.00	
S	T03-00012-AEFA	Charger, Single Bay, Li-Ion w/ plug pack	\$83.00	
S	T03-00013-AEDA	Charger, Multi Bay, Li-Ion w/ cable	\$805.00	
S	T03-00013-AADA	Charger Multi Li-Ion No cable	\$765.00	
S	009-00017-01	PSU Plug Pack 12V 2A US	\$17.00	
S	219-01561-00	Cable, PMU IEC, 6.5ft	\$13.00	

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Step Three (3 of 4) – Radio body above comes in standard Analog mode. If desired, select an operating mode and any additional add on software feature options. Please refer to the notes in red to determine if there is a prerequisite for any of the software features below.

E/C	Model Number	Description	List Price			
System	System Enablers – Software Features					
S	TPAS050	SFE - P25 Common Air Interface (CAI)	\$265.00			
S	TPAS055	SFE - P25 Trunking Phase 1 (TPAS050 Prerequisite)	\$700.00			
S	TPAS091	SFE - P25 Trunking Phase 2 (TPAS055 Prerequisite)	\$265.00			
S	TPAS151	SFE- P25 Trunking Services Phase 1 (Includes TPAS050, TPAS055, and TPAS064 P25 PSTN)	\$940.00			
S	TPAS152	SFE- P25 Trunking Services Phase 2 (Includes TPS050, TPAS055, TPAS091, and TPAS064 P25 PSTN)	\$1,180.00			

Encryption -	Encryption – Software Features				
S	TPAS058	SFE - Multi Key AES Encryption (TPAS057 Prerequisite)	\$600.00		
S	TPAS057	SFE - Multi Key DES Encryption	\$250.00		
S	TPAS156	SFE – P25 OTAR (Includes TPAS054 and TPAS063 OTAR)	\$560.00		
S	TPAS153	SFE - DES/AES Encryption Combo (Includes TPAS057 and TPAS058)	\$765.00		
S	TPAS154	SFE - Non-CAP Encryption ARC4/DES (Includes TPAS053 DES Enc and TPAS102 Arc4 Enc)	\$255.00		
S	TPAS157	SFE – CAP Security Bundle (Includes TPAS054 and TPAS063 OTAR and TPAS058)	\$1,040.00		

Data Enablers – Software Features				
S	TPAS075	SFE - P25 OTAP (TPAS055 Prerequisite)	\$50.00	
S	TPAS155	SFE -Location Services (Includes TPAS067 GPS Tx, TPAS089 Enhanced Loc, TPAS098 Trk GPS Tx, and TPAS105 Geofencing)	\$300.00	
S	TPAS105	SFE - Geofencing Services	\$156.00	
S	TPAS158	SFE - Data Bundle (Includes TPAS056 IP Data and TPAS060 P25 Radio API)	\$350.00	

System Administration Enablers – Software Features			
S	TPAS051	SFE - P25 Administration Service (TPAS050 Prerequisite)	\$541.00
S	TPAS056	SFE - User IP Data (TPAS050 Prerequisite)	\$250.00
S	TPAS060	SFE - Tait Radio API	\$136.00

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E/C	Model Number	Description	List Price		
Radio I	Radio Enhancement Enablers – Software Features				
S	TPAS086	SFE - Enhanced Channel Capacity	\$84.00		
S	TPAS083	SFE - 20/25khz Wideband Enable (Not available to US FCC- regulated customers)	\$0.01		
S	TPAS100	SFE - Link Layer Authentication (TPAS055 Prerequisite. For use with Motorola systems only)	\$100.00		

Software maintenance and support is available on an annual renewal basis. Software maintenance ensures your software investment remains fully operational, high performing and current through updates that also include valuable new features – please contact your L3Harris Representative for further details.

Step Four (4 of 4) – Select any additional accessories desired				
E/C	Model Number	Description	List Price	
Vehicle Charger Options				
S	T03-00014-BAAB	Charger, Vehicle	\$385.00	
S	T03-00014-AAAA	Charger, Vehicle, Battery Only, TP9000	\$158.00	

Speaker Microphones				
S	T03-00045-JFAC	SpkrMic, Evolution, E-Button, 2.5mm	\$186.00	
S	T03-00045-KFAC	SpkrMic, Storm, E-Button, 2.5mm, IP68	\$215.00	
S	T03-00045-DMAC	SpkrMic, Genesis, E-Button, IP68	\$279.00	
s	T03-00045-ERAA	Spkr Mic Light-Weight 3.5mm-Jack	\$63.00	
S	T03-00045-FRAA	Spkr Mic Medium-Weight 3.5mm-Jack	\$67.00	

Audio Accessories - Headsets				
S	T03-00046-FAAB	Headset, Heavy-Duty Overhead	\$607.00	
S	T03-00046-FEAB	Headset, Heavy-Duty Behind-Head	\$607.00	
S	T03-00046-GEAA	Headset, Hurricane II Behind Head	\$571.00	

Audio Accessories – Surveillance Kits			
S	T03-00047-AAAA	Kit, 2-Wire Surveillance	\$233.00

Audio Accessories – Ear Pieces				
S	T03-00053-0451	Earphone In-Ear 2.5mm	\$69.00	
S	T03-00120-AAAD	Eartube In-Ear 2.5mm	\$20.00	
S	T03-00120-BAAD	Earhook 2.5mm	\$12.00	
S	T03-00120-FAAD	Eartube Earhook 2.5mm	\$20.00	
S	T03-00120-GAAD	Earhook Transparent Hi-Vol 2.5mm	\$12.00	
S	T03-00120-HAAD	Earphone Transparent D-Ring Hi-Vol 2.5mm	\$12.00	
S	T952-055	Erhanger 2.5mm	\$39.00	

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E/C	Model Number	Description	List Price
Carrying Ca	se - Leather		
0	T03-00079-0001	Case Hwy Duty I ther DStud BLoop TP95/96	¢72.00

S	103-00079-0001	Case Hvy Duty Liner DStud BLoop 1P95/96	\$73.00
S	T03-00079-0002	Case Hvy Duty Leathr Spring Clp TP95/96	\$63.00
S	T03-00079-0005	Case Soft Leather Use Batt Clp TP95/96	\$39.00
S	T03-00079-0007	Case Hvy Duty Leathr BLoop Dring TP95/96	\$56.00

Carrying Case – Nylon			
S	T03-00079-0003	Case Nylon D-Stud B/Loop TP95/96	\$59.00
S	T03-00079-0004	Case Nylon Use Battery Clp TP95/96	\$42.00
S	T03-00079-0006	Case Nylon D-Stud Chest Harness TP95/96	\$100.00

Carrying Case Accessories				
S	T03-00038-0022	Belt Loop for D-Stud 55mm	\$20.00	
S	T03-00038-0023	Spring Clip for D-Stud 40mm	\$20.00	
S	T03-00038-0030	Battery Spacer Case Heavy Duty Leather	\$2.00	
S	T03-00038-0034	Shoulder Strap Case Heavy Duty Leather	\$36.00	

Progra	Programming and Servicing Kits				
S	T02-00031-0002	P25 Programming & Calibration Kit	\$450.00		
S	T02-00031-0001	TM/TP Programming & Calibration Kit	\$450.00		
S	T03-00118-0601	USB to RJ11 Programming Cable	\$137.00		
S	T03-00118-0101	TP81/93/94 Programming Adaptor	\$45.00		
S	TPA-SV-006	Radio Programming Lead Serial PC to RJ12	\$69.00		
S	T03-00011-FAAA	TP81/93/94 DC Service Adaptor	\$103.00		
S	T03-00040-0001	P81/TP93/TP94 Service Kit	\$725.00		
S	T03-00118-5301	TP8100 Assembly Tool Kit	\$292.00		
S	TOPA-SV-024	Terminals Calibration Box	\$235.00		
S	T03-00118-0201	TP81/93/94 Calibration Adaptor	\$44.00		
s	T03-00118-0202	TP81/93/94 Calibration Low Pass Filter	\$38.00		

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TP9400 P25 Portable Radio



The L3Harris TP9400 may be the smallest P25 Phase 2-capable portable but it is uncompromising in meeting the demands of those serving our communities. With analog, 12.5 kHz P25 Phase 1 FDMA conventional/trunked and 6.25 kHz equivalent P25 Phase 2 TDMA trunked capability in a single device, you can transition to a more spectrally efficient solution in a time frame that suits you.

Each radio comes with the following hardware features as standard:

- GPS Display
- MDC1200 Encode/Decode
- P25 Trunked PSTN Dialling
- Two-Tone Decode
- Voice Annunciations
- Bluetooth[®]

Step One (1 of 4) – Select a radio body [based on the frequency band, keypad type, and color] and an
antenna option.

E/C Model Number	Description	List Price
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VHF (13	VHF (136-174 MHz) – SCAN (4-Key)		
S	TP9405B1BB	Portable, TP9400, 136-174M, Scn, Blk	\$920.00
S	TP9405B1CB	Portable, TP9400, 136-174M, Scn Red	\$970.00
S	TP9405B1DB	Portable, TP9400, 136-174M, Scn Yel	\$970.00
s	TP9405B1EB	Portable, TP9400, 136-174M, Scn Org	\$970.00
S	TP9405B1FB	Portable, TP9400, 136-174M, Scn Grn	\$970.00

E/C **Model Number** Description List Price VHF (136-174 MHz) - SYSTEM (16-Key) TP9406B1BB Portable, TP9400, 136-174M, Sys, Blk \$995.00 s TP9406B1CB Portable, TP9400, 136-174M, Sys, Red \$1,045.00 s \$1,045.00 TP9406B1DB Portable, TP9400, 136-174M, Sys, Yel s TP9406B1EB Portable, TP9400, 136-174M, Sys, Org \$1,045.00 S TP9406B1FB Portable, TP9400, 136-174M, Sys, Grn \$1,045.00 s

VHF Antenna Options				
S	TPA-AN-001	Antenna, 136-225MHz, Hel Tun	\$22.00	
s	TPA-AN-002	Antenna, 136-151MHz, Hel	\$22.00	
S	TPA-AN-034	Antenna, 136-174MHz, Hel	\$30.00	
S	TPA-AN-003	Antenna, 150-162MHz, Hel	\$22.00	
S	TPA-AN-004	Antenna, 162-174MHz, Hel	\$22.00	

UHF-L (378 – 470 MHz) - SCAN (4-Key)				
S	ТР9405НКВВ	Portable, TP9400, 378-470M, Scn, Blk	\$920.00	
S	ТР9405НКСВ	Portable, TP9400, 378-470M, Scn, Red	\$970.00	
S	TP9405HKDB	Portable, TP9400, 378-470M, Scn, Yel	\$970.00	
S	TP9405HKEB	Portable, TP9400, 378-470M, Scn, Org	\$970.00	
S	TP9405HKFB	Portable, TP9400, 378-470M, Scn, Grn	\$970.00	

UHF-L (378 – 470 MHz) – SYSTEM (16-Key)				
S	ТР9406НКВВ	Portable, TP9400, 378-470M, Sys, Blk	\$995.00	
S	ТР9406НКСВ	Portable, TP9400, 378-470M, Sys, Red	\$1,045.00	
S	TP9406HKDB	Portable, TP9400, 378-470M, Sys, Yel	\$1,045.00	
S	TP9406HKEB	Portable, TP9400, 378-470M, Sys, Org	\$1,045.00	
S	TP9406HKFB	Portable, TP9400, 378-470M, Sys, Grn	\$1,045.00	

UHF-L Antenna Options				
S	TPA-AN-037	Antenna, 378-470MHz, 1/4 Wave Whip	\$22.00	
S	TPA-AN-038	Antenna, 378-470MHz, Hel	\$22.00	
S	TPA-AN-011	Antenna, 400-470MHz, Whip	\$22.00	
S	TPA-AN-013	Antenna, 400-470MHz, Hel	\$22.00	

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E/C Model Number Description List Price UHF-H (450 - 520 MHz) - SCAN (4-Key) TP9405H7BB \$920.00 Portable, TP9400, 450-520M, Scn, Blk s TP9405H7CB Portable, TP9400, 450-520M, Scn, Red \$970.00 s TP9405H7DB Portable, TP9400, 450-520M, Scn, Yel \$970.00 s TP9405H7EB Portable, TP9400, 450-520M, Scn, Org \$970.00 s TP9405H7FB Portable, TP9400, 450-520M, Scn, Grn \$970.00 s

UHF-H (450 – 520 MHz) – SYSTEM (16-Key)			
S	TP9406H7BB	Portable, TP9400, 450-520M, Sys, Blk	\$995.00
S	TP9406H7CB	Portable, TP9400, 450-520M, Sys, Red	\$1,045.00
S	TP9406H7DB	Portable, TP9400, 450-520M, Sys, Yel	\$1,045.00
S	TP9406H7EB	Portable, TP9400, 450-520M, Sys, Org	\$1,045.00
S	TP9406H7FB	Portable, TP9400, 450-520M, Sys, Grn	\$1,045.00

UHF-H Antenna Options			
S	TPA-AN-012	Antenna, 450-520MHz, Whip	\$22.00
S	TPA-AN-015	Antenna, 450-520MHz, Hel	\$22.00

700/800 MHz (764 – 870 MHz) - SCAN (4-Key)			
S	TP9405K5BB	Portable, TP9400, 762-870M, Scn, Blk	\$920.00
S	TP9405K5CB	Portable, TP9400, 762-870M, Scn, Red	\$970.00
S	TP9405K5DB	Portable, TP9400, 762-870M, Scn, Yel	\$970.00
S	TP9405K5EB	Portable, TP9400, 762-870M, Scn, Org	\$970.00
S	TP9405K5FB	Portable, TP9400, 762-870M, Scn, Grn	\$970.00

700/800 MHz (764 – 870 MHz) - SYSTEM (16-Key)				
S	TP9406K5BB	Portable, TP9400, 762-870M, Sys, Blk	\$995.00	
S	TP9406K5CB	Portable, TP9400, 762-870M, Sys, Red	\$1,045.00	
S	TP9406K5DB	Portable, TP9400, 762-870M, Sys, Yel	\$1,045.00	
S	TP9406K5EB	Portable, TP9400, 762-870M, Sys, Org	\$1,045.00	
S	TP9406K5FB	Portable, TP9400, 762-870M, Sys, Grn	\$1,045.00	

700/800 Antenna Options			
S	TPA-AN-022	Antenna, 762-870MHz,1/2 Wave Whip	\$22.00
S	TPA-AN-028	Antenna, 762-870MHz, 1/4 Wave Stub	\$22.00

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Step Two (2 of 4) – Select a battery and a charger E/C Model Number Description List Price **Battery Options** s T03-00011-AAAA Battery, Li-Ion 1880mAh \$93.00 s T03-00011-ABAA \$104.00 Battery, Li-Ion 1880mAh w/ Belt Clip s T03-00011-CAAA Battery, Li-Ion 2400mAh \$114.00 s T03-00011-CBAA Battery, Li-Ion 2400mAh w/ Belt Clip \$125.00 s TPA-CA-201 Belt Clip 55mm \$11.00 TPA-CA-207 Belt Loop for D-Clip 75mm s \$20.00 TPA-CA-208 Belt Clip Adaptor for 55mm s \$16.00

Charger Options			
S	T03-00012-AAFA	Charger Single Fast Li-Ion No plug pack	\$66.00
S	T03-00012-AEFA	Charger, Single Bay, Li-Ion w/ plug pack	\$83.00
S	T03-00013-AEDA	Charger, Multi Bay, Li-Ion w/ cable	\$805.00
S	T03-00013-AADA	Charger Multi Li-Ion No cable	\$765.00
S	009-00017-01	PSU Plug Pack 12V 2A US	\$17.00
S	219-01561-00	Cable, PMU IEC, 6.5ft	\$13.00

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Step Three (3 of 4) – Radio body above comes in standard Analog mode. If desired, select an operating mode and any additional add on software feature options. Please refer to the notes in red to determine if there is a prerequisite for any of the software features below.

E/C	Model Number	Description	List Price		
System	System Enablers – Software Features				
S	TPAS050	SFE - P25 CAI	\$265.00		
S	TPAS055	SFE - P25 Trunking Phase 1 (TPAS050 Prerequisite)	\$700.00		
S	TPAS091	SFE - P25 Trunking Phase 2 (TPAS055 Prerequisite)	\$265.00		

Encryption – Software Features				
S	TPAS109	SFE - Single Key AES, DES, ARC4 Enc	\$50.00	
S	TPAS058	SFE - Multi Key AES Encryption	\$600.00	
S	TPAS057	SFE - Multi Key DES Encryption (TPAS109 or TPAS058 Prerequisite)	\$250.00	
S	TPAS143	SFE - P25 OTAR (TPAS058 Prerequisite)	\$350.00	
S	TPAS145	SFE - Security Bundle (Includes AES and OTAR)	\$800.00	

Data Enablers – Software Features				
S	TPAS075	SFE - P25 OTAP (TPAS055 Prerequisite)	\$50.00	
S	TPAS142	SFE - GPS Location Services (TPAS050 Prerequisite)	\$200.00	
S	TPAS146	SFE - Data Bundle (Includes Location Services, OTAP) (TPAS050/55 Prerequisite)	\$300.00	

System Administration Enablers – Software Features				
S	TPAS051	SFE - P25 Administration Service (TPAS050 Prerequisite)	\$541.00	
S	TPAS056	SFE - User IP Data (TPAS050 Prerequisite)	\$250.00	
S	TPAS060	SFE - Tait Radio API	\$136.00	

Radio Enhancement Enablers – Software Features				
S	TPAS086	SFE - Enhanced Channel Capacity	\$84.00	
S	TPAS083	SFE - 20/25khz Wideband Enable (Not available to US FCC- regulated customers)	\$0.01	
S	TPAS100	SFE - Link Layer Authentication (For use with Motorola systems only)	\$100.00	

Software maintenance and support is available on an annual renewal basis. Software maintenance ensures your software investment remains fully operational, high performing and current through updates that also include valuable new features – please contact your L3Harris Representative for further details.

Step Four (4 of 4) – Select any additional accessories desired					
E/C	Model Number	Description	List Price		
Vehicle	Vehicle Charger Options				
S	T03-00014-BAAB	Charger, Vehicle	\$385.00		
S	T03-00014-AAAA	Charger, Vehicle, Battery Only	\$158.00		

Speaker Microphones				
S	T03-00045-JFAC	SpkrMic, Evolution, E-Button, 2.5mm	\$186.00	
S	T03-00045-KFAC	SpkrMic, Storm, E-Button, 2.5mm, IP68	\$215.00	
S	T03-00045-DMAC	SpkrMic, Genesis, E-Button, IP68	\$279.00	
S	T03-00045-ERAA	Spkr Mic Light-Weight 3.5mm-Jack	\$63.00	
S	T03-00045-FRAA	Spkr Mic Medium-Weight 3.5mm-Jack	\$67.00	

Audio Accessories - Headsets				
S	T03-00046-FAAB	Headset, Heavy-Duty Overhead	\$607.00	
S	T03-00046-FEAB	Headset, Heavy-Duty Behind-Head	\$607.00	
S	T03-00046-GEAA	Headset, Hurricane II Behind Head	\$571.00	

Audio Accessories – Surveillance Kits			
S	T03-00047-AAAA	Kit, 2-Wire Surveillance	\$233.00

Audio A	Audio Accessories – Ear Pieces			
S	T03-00053-0451	Earphone In-Ear 2.5mm	\$69.00	
S	T03-00120-AAAD	Eartube In-Ear 2.5mm	\$20.00	
S	T03-00120-BAAD	Earhook 2.5mm	\$12.00	
S	03-00120-FAAD	Eartube Earhook 2.5mm	\$20.00	
S	T03-00120-GAAD	Earhook Transparent Hi-Vol 2.5mm	\$12.00	
S	T03-00120-HAAD	Earphone Transparent D-Ring Hi-Vol 2.5mm	\$12.00	
S	T952-055	Erhanger 2.5mm	\$39.00	

Carrying	Carrying Case - Leather				
S	T03-00038-0004	Case Hvy Duty Leather 4Key DStud B/Loop	\$66.00		
S	T03-00038-0005	Case Hvy Duty Leather 4Key Spring Clip	\$57.00		
S	T03-00038-0006	Case Hvy Duty Leather 4Key B/Loop	\$51.00		
s	T03-00038-0007	Case Hvy Duty Leather 16Key DStud B/Loop	\$66.00		
S	T03-00038-0008	Case Hvy Duty Leather 16Key Spring Clip	\$57.00		

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Carrying Case – Leather (Cont'd)				
S	T03-00038-0009	Case Hvy Duty Leather 16Key B/Loop	\$51.00	
S	T03-00038-0036	Case Hvy Duty Leather 4Key B/Loop Dring	\$51.00	
S	T03-00038-0037	Case Hvy Duty Leather 16Key B/Loop Dring	\$51.00	
S	T03-00038-0020	Case Soft Leather 4Key Use Batt Clp	\$35.00	
S	T03-00038-0021	Case Soft Leather 16Key Use Batt Clp	\$35.00	

Carryin	Carrying Case – Nylon				
s	T03-00038-0013	Case Nylon 4Key D-Stud B/Loop	\$54.00		
S	T03-00038-0014	Case Nylon 4Key B/Loop	\$38.00		
s	T03-00038-0015	Case Nylon 4Key Use Battery Clp	\$38.00		
S	T03-00038-0016	Case Nylon 16Key D-Stud B/Loop	\$54.00		
S	T03-00038-0017	Case Nylon 16Key B/Loop	\$38.00		
s	T03-00038-0018	Case Nylon 16Key Use Battery Clp	\$38.00		
S	T03-00038-0025	Case Nylon 4Key Use Battery Clp Org	\$38.00		
s	T03-00038-0026	Case Nylon 16Key Use Battery Clp Org	\$38.00		
S	T03-00038-0028	Case Nylon 4Key D-Stud Chest Harness	\$90.00		
S	T03-00038-0029	Case Nylon 16Key D-Stud Chest Harness	\$90.00		
s	T03-00038-0032	Case Poly 4Key Use Battery Clp Grn	\$38.00		
S	T03-00038-0033	Case Poly 16Key Use Battery Clp Grn	\$38.00		

Carrying Case Accessories				
S	T03-00038-0022	Belt Loop for D-Stud 55mm	\$20.00	
S	T03-00038-0023	Spring Clip for D-Stud 40mm	\$20.00	
S	T03-00038-0030	Battery Spacer Case Heavy Duty Leather	\$2.00	
S	T03-00038-0034	Shoulder Strap Case Heavy Duty Leather	\$36.00	

E/C

Model Number



E/C	Model Number	Description	List Price
Program	nming Kits		
S	T02-00031-0002	P25 Programming & Calibration Kit	\$450.00
S	T02-00031-0001	TM/TP Programming & Calibration Kit	\$450.00
S	T03-00118-0601	USB to RJ11 Programming Cable	\$137.00
S	T03-00118-0101	TP81/93/94 Programming Adaptor	\$45.00
S	TPA-SV-006	Radio Programming Lead Serial PC to RJ12	\$69.00
S	T03-00011-FAAA	TP81/93/94 DC Service Adaptor	\$103.00
S	T03-00040-0001	P81/TP93/TP94 Service Kit	\$725.00
S	T03-00118-5301	TP8100 Assembly Tool Kit	\$292.00
S	TOPA-SV-024	Terminals Calibration Box	\$235.00
S	T03-00118-0201	TP81/93/94 Calibration Adaptor	\$44.00
S	T03-00118-0202	TP81/93/94 Calibration Low Pass Filter	\$38.00

TP9400 IS

TP9400 P25 Intrinsically Safe Portable Radio

The L3Harris TP9400 may be the smallest P25 Phase 2-capable IS portable but it is uncompromising in meeting the demands of those serving our communities. With analog, 12.5 kHz P25 Phase 1 FDMA conventional/trunked and 6.25 kHz equivalent P25 Phase 2 TDMA trunked capability in a single device, you can transition to a more spectrally efficient solution in a time frame that suits you.

Each radio comes with the following hardware features as standard:

- GPS Display
- MDC1200 Encode/Decode
- P25 Trunked PSTN Dialling
- Two-Tone Decode
- Voice Annunciations



Step One (1 of 4) – Select a radio body [based on the frequency band, keypad type, and color] and an antenna.					
E/C	E/C Model Number Description List Price				
VHF (136-17	VHF (136-174 MHz) – SYSTEM (16-Key)				
S	TP9461B1GA11	Portable, AEx IIA, TP9400,136-174M, Blue	\$1,323.00		
S	TP9461B1GA21	Portable, AEx IIC, TP9400,136-174M, Blue	\$1,433.00		

VHF Antenna Options				
S	TPA-AN-034	Antenna, 136-174MHz, Hel	\$30.00	

UHF (380-47	UHF (380-470 MHz) – SYSTEM (16-Key)				
S	TP9461HBGA11	Portable, AEx IIA, TP9400,380-470M, Blue	\$1,323.00		
S	TP9461HBGA21	Portable, AEx IIC, TP9400,380-470M, Blue	\$1,433.00		

UHF (380-470 MHz) – Antenna Options				
S	TPA-AN-037	Antenna, 380-470MHz, 1/4 Wave Whip	\$22.00	
S	TPA-AN-038	Antenna, 380-470MHz, Hel	\$22.00	

700/800 (762	700/800 (762-870 MHz) – SYSTEM (16-Key)				
S	TP9461K5GA11	Portable, AEx IIA, TP9400,762-870M, Blue	\$1,323.00		
S	TP9461K5GA21	Portable, AEx IIC, TP9400,762-870M, Blue	\$1,433.00		

TP9400 IS

E/C	Model Number	Description	List Price		
700/800 Ante	700/800 Antenna Options				
S	TPA-AN-022	Antenna, 762-870MHz, 1/2 Wave Whip	\$22.00		

TP9400 IS

Step Two (2 of 4) – Select one battery and one charger					
E/C	Model Number	Description	List Price		
Battery	Battery Options				
S	T03-22001-AAAA	Battery, AEx IIA, Li-Ion 2300mAh	\$210.00		
S	T03-22001-AACA	Battery, AEx IIC, Li-Ion 2300mAh	\$210.00		
S	TPA-CA-201	Belt Clip 55mm	\$11.00		
Charge	Charger Options				
S	T03-22011-BABB	Charger, IS, Single, Li-Ion w/ plug pack	\$207.00		
S	T03-22011-CABB	Charger, IS, Multi, Li-Ion w/ cable	\$995.00		

TP9400 IS

Step Three (3 of 4) – Radio body above comes in standard Analog mode. If desired, select an operating mode and any additional add-on software feature options. Please refer to the notes in red to determine if there is a prerequisite for any of the software features below.

E/C	Model Number	Description	List Price	
System Enablers – Software Features				
S	TPAS050	SFE - P25 CAI	\$265.00	
S	TPAS055	SFE - P25 Trunking Phase 1 (TPAS050 Prerequisite)	\$700.00	
S	TPAS091	SFE - P25 Trunking Phase 2 (TPAS055 Prerequisite)	\$265.00	

Encryption – Software Features			
S	TPAS109	SFE - Single Key AES, DES, ARC4 Enc	\$50.00
S	TPAS058	SFE - Multi Key AES Encryption	\$600.00
S	TPAS057	SFE - Multi Key DES Encryption (TPAS109 or TPAS058 Prerequisite)	\$250.00
S	TPAS143	SFE - P25 OTAR (TPAS058 Prerequisite)	\$350.00
S	TPAS145	SFE - Security Bundle (Includes AES and OTAR)	\$800.00

Data Enablers – Software Features				
S	TPAS075	SFE - P25 OTAP (TPAS055 Prerequisite)	\$50.00	
S	TPAS142	SFE - GPS Location Services (TPAS050 Prerequisite)	\$200.00	
S	TPAS146	SFE - Data Bundle (Includes Location Services and OTAP)	\$300.00	

System Administration Enablers – Software Features				
S TPAS051 SFE - P25 Administration Service (TPAS050 Prerequisite) \$541.00				
S	TPAS056	SFE - User IP Data (TPAS050 Prerequisite)	\$250.00	
S	TPAS060	SFE - Tait Radio API	\$136.00	

Radio Enhancement Enablers – Software Features				
S	TPAS086	SFE - Enhanced Channel Capacity	\$84.00	
S	TPAS083	SFE - 20/25khz Wideband Enable (Not available to US FCC- regulated customers)	\$0.01	
S	TPAS100	SFE - Link Layer Authentication (For use with Motorola systems only)	\$100.00	

Software maintenance and support is available on an annual renewal basis. Software maintenance ensures your software investment remains fully operational, high performing and current through updates that also include valuable new features – please contact your L3Harris Representative for further details.

TP9400 IS

E/C	Model Number	Description	List Price
Vehicle	Charger Options		
S	T03-22011-DAAB	Charger, IS, Vehicle	\$430.00
Speaker	Microphones		
S	T03-22008-AAAA	SpkrMic, IS, Storm, E-Button, 2.5mm IP68	\$247.00
S	T03-22008-DAAA	Skull Mic, IS	\$1,275.00
Audio A	ccessories - Headsets		
S	T03-22008-BAAA	Headset, IS, Heavy-Duty Overhead	\$811.00
S	T03-22008-BABA	Headset, IS, Heavy-Duty Behind-Head	\$811.00
Carrying	g Case - Leather		
S	T03-22007-0001	Case, IS, Hvy Duty Leather DStud B/Loop	\$66.00
S	T03-22007-0002	Case, IS, Hvy Duty Leather Sprng Clip	\$57.00
S	T03-22007-0003	Case, IS, Hvy Duty Leather Belt Loop	\$51.00
S	T03-22007-0004	Case Bat, IS, Hvy Duty Leather	\$42.00
S	T03-22007-0005	Case Bat, IS, Hvy Duty Leather DStud	\$56.00
S	T03-22007-0006	Case Bat, IS, Hvy Duty Leather Sprng Clip	\$48.00
S	T03-22007-0007	Case Bat, IS, Hvy Duty Leather B/Loop	\$43.00

Programmi	Programming Kits			
S	T03-22009-AAAA	TP93/94 IS Programming Adptr	\$225.00	

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TM9400

TM9400 P25 Mobile Radio



The L3Harris TM9400 has the means and flexibility to meet the operational needs of your organization today and tomorrow. The TM9400 provides analog, P25 Phase 1 conventional/trunked, 6.25 kHz equivalent P25 Phase 2 TDMA trunked, and LSM (CQPSK) decode capability in a single device.

Each radio comes with the following hardware features as standard:

- GPS Display
- MDC1200 Encode/Decode
- P25 Trunked PSTN Dialling
- Two-Tone Decode
- Multi-Head Support
- Voice Annunciations

Step One (1 of 5) – Pick one (1) radio body based on the frequency band, power, and connector.				
E/C	Model Number	Description	List Price	
VHF (136-174 MHz) – Low Power (25W)				
S	TM9400B1AA	Mobile, TM9400, 136-174M 25W, BNC, Alm	\$872.00	
S	TM9400B1BA	Mobile, TM9400, 136-174M 25W, M-UHF, Alm	\$872.00	

VHF (136-1	VHF (136-174 MHz) – High Power (50W)			
S	TM9400B1CA	Mobile, TM9400, 136-174M 50W, BNC, Alm	\$1,050.00	
S	TM9400B1DA	Mobile, TM9400, 136-174M 50W, M-UHF, Alm	\$1,050.00	

UHF-L (400-470 MHz) – Low Power (25W)			
S	TM9400H5AA	Mobile, TM9400, 400-470M 25W, BNC, Alm	\$872.00
S	TM9400H5BA	Mobile, TM9400, 400-470M 25W, M-UHF, Alm	\$872.00

UHF-L (400-470 MHz) – High Power (40W)			
S	TM9400H5CA	Mobile, TM9400, 400-470M 40W, BNC, Alm	\$1,050.00
S	TM9400H5DA	Mobile, TM9400, 400-470M 40W, M-UHF, Alm	\$1,050.00

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\$1,050.00

E/C	Model Number	Description	List Price	
UHF-H (450-520 MHz) – Low Power (25W)				
S	TM9400H7AA	Mobile, TM9400, 450-520M 25W, BNC, Alm	\$872.00	
S	TM9400H7BA	Mobile, TM9400, 450-520M 25W, M-UHF, Alm	\$872.00	
UHF-H (450-520 MHz) – High Power (40W)				
S	TM9400H7CA	Mobile, TM9400, 450-520M 40W, BNC, Alm	\$1,050.00	

700/800 MHz (764-870 MHz) – High Power (35W)				
S	TM9400K5CA	Mobile, TM9400, 762-870M 35W, BNC, Alm	\$1,050.00	
S	TM9400K5DA	Mobile, TM9400, 762-870M 35W, M-UHF, Alm	\$1,050.00	

Mobile, TM9400, 450-520M 40W, M-UHF, Alm

s

TM9400H7DA

Step Two (2 of 5) – Power Cable Install Kit Option. Select the power cable based on the power and connector selected above					
E/C	E/C Model Number Description List Price				
S	T02-00026-1001	Cable, Install Kit, BNC, 25W	\$37.00		
S	T02-00026-1002	Cable, Install Kit, M-UHF, 25W	\$37.00		
S	T02-00026-1003	Cable, Install Kit, BNC, 30-50W	\$67.00		
S	T02-00026-1004	Cable, Install Kit, M-UHF, 30-50W	\$67.00		

Step Three	Step Three (3 of 5) – Control Head & Microphone Configuration Option. Select the option that best fits the configuration you desire and pick one (1) part from each table within that option.				
E/C	E/C Model Number Description List Price				
Option 1: F	ixed Head Operation – Contro	l Heads			
S	T02-00071-AAAD	Ctrl Head, Fixed Primary, Blk	\$242.00		
S	T02-00071-AABD	Ctrl Head, Fixed Primary, Yel	\$292.00		
S	T02-00071-AAED	Ctrl Head, Fixed Primary, Grn	\$292.00		

Option 1: Fixed Head Operation – Microphones			
S	T02-00005-AAAC	Standard Microphone	\$80.00
S	T02-00005-AABC	Standard Microphone, 10ft Curly Cord	\$90.00
S	T02-00005-ABAC	Keypad Microphone	\$180.00
S	T02-00005-ABBC	Keypad Microphone, 10ft Curly Cord	\$190.00

Option 2: Single Remote Head Operation – Control Heads			
S	T02-00071-CAAD	Cntrl Head, Primary Rmt, Blk	\$384.00
S	T02-00071-CABD	Cntrl Head, Primary Rmt, Yel	\$434.00
S	T02-00071-CAED	Cntrl Head, Primary Rmt, Grn	\$434.00

Option 2: Single Remote Head Operation – Remote Cables			
S	T02-00061-3001	Single Remote Head Kit, 20ft	\$107.00
S	T02-00061-3002	Single Remote Head Kit, 40ft	\$289.00
S	T02-00061-3003	Single Remote Head Kit, 60ft	\$337.00

Option 2: Single Remote Head Operation - Microphones			
S	T02-00005-AAAC	Standard Microphone	\$80.00
S	T02-00005-AABC	Standard Microphone, 10ft Curly Cord	\$90.00
S	T02-00005-ABAC	Keypad Microphone	\$180.00
S	T02-00005-ABBC	Keypad Microphone, 10ft Curly Cord	\$190.00

Option 3: Hand Held Control Head Operation – Control Heads			
S	T02-00063-1016	Ctrl Head, Primary Rmt, HHCH, Blk	\$364.00
S	T02-00063-1006	Ctrl Head, Primary Rmt, HHCH, Yel	\$414.00
S	T02-00063-1010	Ctrl Head, Primary Rmt, HHCH, Red	\$414.00
S	T02-00063-1014	Ctrl Head, Primary Rmt, HHCH, Grn	\$414.00

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E/C	Model Number	Description	List Price
Option 3: Hand Held Control Head Operation – Remote Cables			
S	T02-00009-0201	Cable, Curly Extension, HHCH 5ft	\$28.00
S	T02-00009-0202	Cable, Curly Extension, HHCH 10ft	\$38.00
S	T02-00009-0203	Cable, Curly Extension, HHCH 20ft	\$46.00
S	T02-00009-0204	Cable, Curly Extension, HHCH 30ft	\$79.00

Option 3: Hand Held Control Head Operation – External Speakers			
S	T02-00004-0204	Speaker, External, 10W for 25W Radio	\$73.00
S	T02-00004-0205	Speaker, External, 10W for 30-50W Radio	\$73.00

Option 4: Dual Remote Head Operation – Primary Control Heads				
S	T02-00071-CAAD	Cntrl Head, Primary Rmt, Blk	\$384.00	
S	T02-00071-CABD	Cntrl Head, Primary Rmt, Yel	\$434.00	
S	T02-00071-CAED	Cntrl Head, Primary Rmt, Grn	\$434.00	

Option 4: D	Option 4: Dual Remote Head Operation – Remote Cable			
S	T02-00062-3001	Dual Remote Head Kit, 60ft	\$383.00	

Option 4: Dual Remote Head Operation – Primary Control Head Microphones				
S	T02-00005-AAAC	Standard Microphone	\$80.00	
S	T02-00005-AABC	Standard Microphone, 10ft Curly Cord	\$90.00	
S	T02-00005-ABAC	Keypad Microphone	\$180.00	
S	T02-00005-ABBC	Keypad Microphone, 10ft Curly Cord	\$190.00	

Option 4: Dual Remote Head Operation – Secondary Control Heads			
S	T02-00071-DAAD	Ctrl Head, Secondary Rmt, Blk	\$384.00
S	T02-00071-DABD	Ctrl Head, Secondary Rmt, Yel	\$434.00
S	T02-00071-DAED	Ctrl Head, Secondary Rmt, Grn	\$434.00

Option 4: D	ual Remote Head Operation –	Secondary Control Head Microphones	
S	T02-00005-AAAC	Standard Microphone	\$80.00
S	T02-00005-AABC	Standard Microphone, 10ft Curly Cord	\$90.00
S	T02-00005-ABAC	Keypad Microphone	\$180.00
S	T02-00005-ABBC	Keypad Microphone, 10ft Curly Cord	\$190.00

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E/C	Model Number	Description	List Price
Option	5: Desktop Configuration		
Power S	Supply		
S	T02-00036-AACA	Desktop Power Supply 13V8 23A DC	\$295.00
Desktop	Cradle Cable Kits	· · · · ·	·
S	T02-00026-1001	Cable, Install Kit, BNC, 25W	\$37.00
S	T02-00026-1002	Cable, Install Kit, M-UHF, 25W	\$37.00
S	T02-00026-1003	Cable, Install Kit, BNC, 30-50W	\$67.00
S	T02-00026-1004	Cable, Install Kit, M-UHF, 30-50W	\$67.00
Desktop	Power Supply Hardware Kits		
S	T02-00026-3002	Install Kit, U-Cradle, Desktop Power	\$83.00
S	T02-00026-3001	Install Kit, Plinth, Desktop Power	\$83.00
Desktop	Microphone		
S	T02-00005-ACAA	Desktop Microphone	\$187.00

Optional M	Optional Mobile Cradle Mounting Hardware Kits		
S	T02-00026-2001	Mounting Kit, U-Cradle	\$21.00
S	T02-00026-2002	Mounting Kit, Security Cradle	\$109.00
S	T02-00026-2004	Mounting Kit, Universal	\$75.00
S	T02-00026-2006	Mounting Kit, Dual	\$65.00

Optional U	Optional UnifiedVehicle Upgrade Kits		
UnifiedVehic	le Upgrade Options		
S	TU2000M000000000A	Upgrade Kit UV Fixed Head No Cell NoAnt	\$522.00
S	TU2000M000000000B	Upgrade Kit UV Remote Head No Cell NoAnt	\$381.00
S	TU2000M400000000A	Upgrade Kit UV Fixed Head NACell x3Ant	\$884.00
S	TU2000M400000000B	Upgrade Kit UV Remote Head NACell x3Ant	\$743.00

UnifiedVeh	icle External Antenna Options	;	
S	T05-00031-0001	Antenna, UVe MultiElement Ext BNC Adptr	\$466.00
S	T05-00031-0002	Antenna, UVe MultiElement Ext MUHF Adptr	\$466.00
S	T05-00031-0003	Antenna, UVe MultiElement Ext (No Adptr)	\$466.00
S	T05-00031-0004	Antenna, UVe WiFi 2.4/5GHz Ext SMA	\$111.00

TM9400

Step Four (4 of 5) – Radio body above comes in standard Analog mode. If desired, pick an operating mode and any additional add on software feature options. Please refer to the notes in red to determine if there is a prerequisite for any of the software features below.

E/C	Model Number	Description	List Price
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System En	System Enablers – Software Features		
S	TMAS050	SFE - P25 Common Air Interface (CAI)	\$265.00
S	TMAS055	SFE - P25 Trunking Phase 1 (TMAS050 Prerequisite)	\$700.00
S	TMAS091	SFE - P25 Trunking Phase 2 (TMAS055 Prerequisite)	\$265.00

Encryp	ncryption Enablers – Software Features		
S	TMAS109	SFE - Single Key AES, DES, ARC4 Enc	\$50.00
S	TMAS058	SFE - Multi Key AES Encryption	\$600.00
S	TMAS057	SFE - Multi Key DES Encryption (TMAS109 or TMAS058 Prerequisite)	\$250.00
s	TMAS143	SFE - P25 OTAR (TMAS058 Prerequisite)	\$350.00
S	TMAS145	SFE - Security Bundle (Includes AES, OTAR)	\$800.00

Data Enabl	ata Enablers – Software Features		
S	TMAS105	SFE - Geofencing Services	\$156.00
S	TMAS075	SFE - P25 OTAP (TMAS055 Prerequisite)	\$50.00
S	TMAS142	SFE - GPS Location Services (TMAS050 Prerequisite)	\$200.00
S	TMAS146	SFE Key - Data Bundle (Includes Location Services, OTAP) (TMAS050/55 Prerequisite)	\$300.00

System Ad	System Administration Enablers – Software Features		
S	TMAS051	SFE - P25 Administration Service (TMAS050 Prerequisite)	\$541.00
S	TMAS056	SFE - User IP Data (TMAS050 Prerequisite)	\$250.00
S	TMAS060	SFE - Tait Radio API	\$136.00

Radio Enha	ancement Enablers – Software	Features	
S	TMAS086	SFE - Enhanced Channel Capacity	\$84.00
S	TMAS083	SFE - 20/25khz Wideband Enable (Not available to US FCC- regulated customers)	\$0.01
S	TMAS100	SFE - Link Layer Authentication (TMAS055 Prerequisite. For use with Motorola systems only)	\$100.00

Software maintenance and support is available on an annual renewal basis. Software maintenance ensures your software investment remains fully operational, high performing and current through updates that also include valuable new features – please contact your L3Harris Representative for further details.

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E/C	Model Number	Description	List Price
Accesso	pries – Microphones and S	peakers	
S	T02-00005-ADAA	Handsfree Microphone	\$116.00
S	T02-00004-0101	Telephone Handset	\$651.00
S	T02-00004-0204	Speaker, External, 10W for 25W Radio	\$73.00
S	T02-00004-0205	Speaker, External, 10W for 30-50W Radio	\$73.00
S	T02-00004-0201	Speaker, Horn,112dB SPL for 25W Radio	\$185.00
S	T02-00004-0202	Speaker, Horn,112dB SPL for 30-50W Radio	\$185.00
Accesso	ories – Cables		
S	T02-00009-0101	Cable Shielded 8 Core RJ45 Grommet 2ft	\$21.00
S	T02-00009-0102	Cable Shielded 8 Core RJ45 Grommet 5ft	\$26.00
S	T02-00009-0103	Cable Shielded 8 Core RJ45 Grommet 20ft	\$46.00
S	T02-00009-0104	Cable Shielded 8 Core RJ45 Grommet 40ft	\$94.00
S	T02-00009-0105	Cable Shielded 8 Core RJ45 Grommet 10ft	\$39.00
S	T02-00063-2001	HHCH Cables & Interface Box Kit	\$395.00
S	T02-00034-EAAA	Cable Ignition Sense 13ft	\$54.00
S	TMAA10-10	Remote PTT + Microphone for HHCH B-Box	\$174.00
Accesso	ories – GPS Receivers and	Accessories	
RF Anten	na is not included. Please pur	rchase as a separate item.	
S	TMAA05-01	GPS Receiver Garmin Flush Mount	\$383.00
S	TMAA05-02	Magnetic Mount Kit For TMAA05-01	\$41.00
S	TMAA05-03	Plate Mount Kit For TMAA05-01	\$20.00
S	TMAA05-04	GPS Receiver Garmin Magnetic Mount	\$419.00
S	TMAA05-05	GPS Receiver PCTEL Magnetic Mount	\$304.00
S	TMAA05-06	GPS Receiver PCTEL Through Hole Mount	\$314.00
Program	ming & Service Kits		
S	T02-00031-0002	P25 Programming & Calibration Kit	\$450.00
S	T02-00031-0007	TM93/94 Service Kit	\$615.00
S	TOPA-SV-024	Terminals Calibration Box	\$235.00
S	T03-00118-0601	USB to RJ11 Programming Cable	\$120.00
S	TMAA20-02	Adaptor RJ45 to DB9 Adaptor	\$30.00

TMAA20-03

TMAA20-04

TMAA21-01

s

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s

Cable 25W Radio Pwr to Banana Plug

Adaptor RJ12 Socket/RJ45 Plug

Cable DB15 Socket/RJ45 Plug

\$59.00

\$27.00

\$116.00

TB9400 P25 Base Stations

The L3Harris TB9400 base station is a second generation P25 base station with IP connectivity. It supports three modes of operation: **Analog**, **P25 Conventional and Trunking. P25 Trunking Phase 1 to Phase 2** software migration enables customers to transition to a more spectrally efficient solution with greater capacity while future-proofing their investment.

The TB9400 delivers on deployment and operational efficiency with Phase 2 upgradability, Linear Simulcast Modulation (LSM), and remote network management.

The TB9400 base station is the main component of the AS-IP Analog Simulcast over IP network. It is an ideal platform to migrate to P25 Conventional or Trunking in the future from Analog. Each TB9400 comes default with analog air interface software.



The TB9400 offers the following features:

- P25 Phase 1 trunked base station with TDMA hardware and software-upgradability to P25 Phase 2 TDMA for increased capacity
- P25 Conventional and Analog simulcast AS-IP operation, simulcast or no simulcast mode
- P25 standards compliance for greater choice and interoperability
- Analog conventional simulcast operation
- IP connectivity allows efficient network design and scaling
- Linear simulcast modulation (LSM) means simulcast networks with fewer sites thanks to the linear PA
- Extensive remote management and monitoring operations with a focus on security
- MIL-STD designed and tested for reliability to mitigate network outages

Frequency	50W	100W	Rx Only
148-174MHz	\checkmark	\checkmark	✓
378-420MHz	✓	~	✓
400-440MHz	~	~	✓
440-480MHz	\checkmark	\checkmark	✓
470-520MHz	~	~	~
762-870MHz	~	~	✓

Note:

- DC power options are 12/24/48VDC with AUX output
- AC power options are 110/240VAC + AUX output
- ACDC power options are AC + 12/24/48VDC + AUX output
- AUX power output voltage options are 12VDC, 24VDC, or 48VDC AUX

Step One (1 of 5) – Select a chassis based on the channel RF Power required				
E/C	Model Number	Description	List Price	
50 Watt Single-Channel Chassis				
S	TB9415S-050H	Chassis, TB9400, Single, 50W	\$1,278.00	
50 Watt Du	al-Channel Chassis			
S	TB9415D-050H	Chassis, TB9400, Dual, 50W	\$1,278.00	
100 Watt Si	100 Watt Single-Channel Chassis			
S	TB9435S-100H	Chassis, TB9400, Single, 100W	\$1,278.00	

E/C	Model Number	Description	List Price		
Multi-Rec	Multi-Receiver Chassis				
S	TB9444-RX1H	Chassis, TB9400, Single Receiver x1	\$1,152.00		
S	TB9444-RX2H	Chassis, TB9400, Multi Receiver x2	\$1,152.00		
S	TB9444-RX3H	Chassis, TB9400, Multi Receiver x3	\$1,152.00		
S	TB9444-RX4H	Chassis, TB9400, Multi Receiver x4	\$1,152.00		

Step Two (2 of 5) – Select Reciter and Power Amplifier based on the chassis selected above. Be sure to match the frequency band of the Reciter with that of the Power Amplifier.				
E/C	Model Number	Description	List Price	
Option [•]	1 – TB9400 Reciter for Single	e 50W Options		
S	T01-01103-CAAA	Reciter, TB9400, 136-156MHz	\$2,581.00	
S	T01-01103-DAAA	Reciter, TB9400, 148-174MHz	\$2,581.00	
S	T01-01103-JAAA	Reciter, TB9400, 378-420MHz	\$2,581.00	
S	T01-01103-KAAA	Reciter, TB9400, 400-440MHz	\$2,581.00	
S	T01-01103-LAAA	Reciter, TB9400, 440-480MHz	\$2,581.00	
S	T01-01103-MAAA	Reciter, TB9400, 470-520MHz	\$2,581.00	
S	T01-01103-NAAA	Reciter, TB9400, 762-870MHz	\$2,581.00	

Option 1 – TB9400 Power Amplifier for Single 50W Options				
S	T01-01121-BABA	Linear Pwr Amp, TB9400, 136-174MHz, 50W	\$1,427.00	
S	T01-01121-DABA	Linear Pwr Amp, TB9400, 148-174MHz, 50W	\$1,427.00	
S	T01-01121-JAAA	Linear Pwr Amp, TB9400, 378-420MHz, 50W	\$1,427.00	
S	T01-01121-KAAA	Linear Pwr Amp, TB9400, 400-440MHz, 50W	\$1,427.00	
S	T01-01121-LAAA	Linear Pwr Amp, TB9400, 440-480MHz, 50W	\$1,427.00	
S	T01-01121-MAAA	Linear Pwr Amp, TB9400, 470-520MHz, 50W	\$1,427.00	
S	T01-01121-NAAA	Linear Pwr Amp, TB9400, 762-870MHz, 50W	\$1,427.00	

Option	Option 2 – TB9400 Reciter for Dual 50W Options				
Select	Select two (2) for dual configuration				
S	T01-01103-CAAA	Reciter, TB9400, 136-156MHz	\$2,581.00		
S	T01-01103-DAAA	Reciter, TB9400, 148-174MHz	\$2,581.00		
S	T01-01103-JAAA	Reciter, TB9400, 378-420MHz	\$2,581.00		
S	T01-01103-KAAA	Reciter, TB9400, 400-440MHz	\$2,581.00		
S	T01-01103-LAAA	Reciter, TB9400, 440-480MHz	\$2,581.00		
S	T01-01103-MAAA	Reciter, TB9400, 470-520MHz	\$2,581.00		
S	T01-01103-NAAA	Reciter, TB9400, 762-870MHz	\$2,581.00		

E/C	Model Number	Description	List Price
S	T01-01121-BABA	Linear Pwr Amp, TB9400, 136-174MHz, 50W	\$1,427.00
S	T01-01121-DABA	Linear Pwr Amp, TB9400, 148-174MHz, 50W	\$1,427.00
S	T01-01121-JAAA	Linear Pwr Amp, TB9400, 378-420MHz, 50W	\$1,427.00
S	T01-01121-KAAA	Linear Pwr Amp, TB9400, 400-440MHz, 50W	\$1,427.00
S	T01-01121-LAAA	Linear Pwr Amp, TB9400, 440-480MHz, 50W	\$1,427.00
S	T01-01121-MAAA	Linear Pwr Amp, TB9400, 470-520MHz, 50W	\$1,427.00
S	T01-01121-NAAA	Linear Pwr Amp, TB9400, 762-870MHz, 50W	\$1,427.00

Option 3 – TB9400 Reciter for Single 100W Options			
S	T01-01103-CAAA	Reciter, TB9400, 136-156MHz	\$2,581.00
S	T01-01103-DAAA	Reciter, TB9400, 148-174MHz	\$2,581.00
S	T01-01103-JAAA	Reciter, TB9400, 378-420MHz	\$2,581.00
S	T01-01103-KAAA	Reciter, TB9400, 400-440MHz	\$2,581.00
S	T01-01103-LAAA	Reciter, TB9400, 440-480MHz	\$2,581.00
S	T01-01103-MAAA	Reciter, TB9400, 470-520MHz	\$2,581.00
S	T01-01103-NAAA	Reciter, TB9400, 762-870MHz	\$2,581.00

Option 3 –	Option 3 – TB9400 Power Amplifier for Single 100W Options				
s	T01-01121-BBBA	Linear Pwr Amp, TB9400, 136-174MHz, 100W	\$2,039.00		
S	T01-01121-DBBA	Linear Pwr Amp, TB9400, 148-174MHz, 100W	\$2,039.00		
S	T01-01121-JBAA	Linear Pwr Amp, TB9400, 378-420MHz, 100W	\$2,039.00		
S	T01-01121-KBAA	Linear Pwr Amp, TB9400, 400-440MHz, 100W	\$2,039.00		
S	T01-01121-LBAA	Linear Pwr Amp, TB9400, 440-480MHz, 100W	\$2,039.00		
S	T01-01121-MBAA	Linear Pwr Amp, TB9400, 470-520MHz, 100W	\$2,039.00		
S	T01-01121-NBAA	Linear Pwr Amp, TB9400, 762-870MHz, 100W	\$2,039.00		

TB9400

E/C	Model Number	Description	List Price		
Option 4	Option 4 – TB9400 Receiver-Only Options				
S	T01-01104-CAAA	RxOnly, TB9400, 136-156MHz	\$1,721.00		
S	T01-01104-DAAA	RxOnly, TB9400, 148-174MHz	\$1,721.00		
S	T01-01104-JAAA	RxOnly, TB9400, 378-420MHz	\$1,721.00		
S	T01-01104-KAAA	RxOnly, TB9400, 400-470MHz	\$1,721.00		
S	T01-01104-LAAA	RxOnly, TB9400, 440-480MHz	\$1,721.00		
S	T01-01104-MAAA	RxOnly, TB9400, 470-520MHz	\$1,721.00		
S	T01-01104-NAAA	RxOnly, TB9400, 762-870MHz	\$1,721.00		

 Step Three (3 of 5) – Select Power Management Unit (PMU) option based on power input needed

 E/C
 Model Number
 Description
 List Price

Option 1 –	Option 1 – DC PMU Options			
12VDC				
S	TBA3001-1100	PMU, TB9000, 12VDC Aux12V	\$1,889.00	
S	TBA3001-1200	PMU, TB9000, 12VDC Aux24V	\$1,889.00	
S	TBA3001-1400	PMU, TB9000, 12VDC Aux48V	\$1,889.00	
24VDC				
S	TBA3002-2100	PMU, TB9000, 24VDC Aux12V	\$1,889.00	
S	TBA3002-2200	PMU, TB9000, 24VDC Aux24V	\$1,889.00	
S	TBA3002-2400	PMU, TB9000, 24VDC Aux48V	\$1,889.00	
48VDC				
S	TBA3004-4100	PMU, TB9000, 48VDC Aux12V	\$1,889.00	
S	TBA3004-4200	PMU, TB9000, 48VDC Aux24V	\$1,889.00	
S	TBA3004-4400	PMU, TB9000, 48VDC Aux48V	\$1,889.00	

E/C	Model Number	Description	List Price		
Option 2 – A	Option 2 – AC PMU Options				
S	TBA30A0-0100	PMU, TB9000, AC Aux12	\$1,889.00		
S	TBA30A0-0200	PMU, TB9000, AC Aux24	\$1,889.00		
S	TBA30A0-0400	PMU, TB9000, AC Aux48	\$1,889.00		

Mains Power	Mains Power Cable				
S	219-01561-00	Cable, PMU IEC, 6.5ft	\$13.00		

Option 3: A	Option 3: AC/DC PMU Options					
12VDC	12VDC					
S	TBA30A1-1100	PMU, TB9000, 12VACDC Aux12V	\$2,501.00			
S	TBA30A1-1200	PMU, TB9000, 12VACDC Aux24V	\$2,501.00			
S	TBA30A1-1400	PMU, TB9000, 12VACDC Aux48V	\$2,501.00			
24VDC						
S	TBA30A2-2100	PMU, TB9000, 24VACDC Aux12V	\$2,501.00			
S	TBA30A2-2200	PMU, TB9000, 24VACDC Aux24V	\$2,501.00			
S	TBA30A2-2400	PMU, TB9000, 24VACDC Aux48V	\$2,501.00			

48VDC					
S	TBA30A4-4100	PMU, TB9000, 48VACDC Aux12V	\$2,501.00		
S	TBA30A4-4200	PMU, TB9000, 48VACDC Aux24V	\$2,501.00		
S	TBA30A4-4400	PMU, TB9000, 48VACDC Aux48V	\$2,501.00		

Mains Power Cable				
S	219-01561-00	Cable, PMU IEC, 6.5ft	\$13.00	

TB9400

Step Four	Step Four (4 of 5) – Select Software Feature Enablers (SFEs) based on the configuration needed					
E/C	Model Number	Description	List Price			
Option 1 -	Analog and Voting with Simul	cast (AS-IP) Enablers				
Analog FM	Enabler Options					
S	TBAS060	SFE - Digital Fixed Station Interface	\$523.00			
-	d Simulcast Enablers ed if you are designing a simulcast s	ystem. At least one master site/central voter is required in simulcast de	esigns.			
Master Site	or Central Voter Site					
S	TBAS061	SFE - Central Voter	\$4,826.00			
S	TBAS062	SFE - Simulcast Enable (TBAS061 Prerequisite)	\$4,730.00			
Satellite Sit	e					
S	TBAS071	SFE - IP Networking Satellite	\$761.00			
S	S TBAS062 SFE - Simulcast Enable (TBAS071 Prerequisite) \$4,730.00					
Voted Rece	Voted Receive-Only Satellite Site					
S	TBAS071-R0	SFE - IP Networking Satellite	\$381.00			

Note: If a Dual configuration has been selected in step 1 above, repeat this option to select second channel software.

Option	2 – P25 Conventional and	Voting with Simulcast Enablers			
P25 Con	ventional Enabler Options				
S	TBAS050	SFE - P25 Common Air Interface (CAI)	\$6,450.00		
S	TBAS050-R0	SFE - P25 Common Air Interface (CAI) Rx Only – (Applicable to only Receive-Only Stations)	\$3,225.00		
S	TBAS060	SFE - Digital Fixed Station Interface	\$523.00		
This is n	and Simulcast Enablers eeded if you are designing a sir or Central Voter Site	mulcast system. At least one master site/central voter is required in simulcast de	esigns.		
			F		
S	TBAS061	SFE - Central Voter (TBAS050 Prerequisite)	\$4,826.00		
S	TBAS062	SFE - Simulcast Enable (TBAS061 Prerequisite)	\$4,730.00		
S	TBAS065	SFE - P25 Linear Simulcast Modulation (LSM) Phase 1 (TBAS062 Prerequisite)	\$1,365.00		
Satellite	Site				
S	TBAS071	SFE - IP Networking Satellite (TBAS050 Prerequisite)	\$761.00		
S	TBAS062	SFE - Simulcast Enable (TBAS071 Prerequisite)	\$4,730.00		
S	TBAS065	SFE - P25 Linear Simulcast Modulation (LSM) Phase 1 (TBAS062 Prerequisite) \$1,365.00			
Voted R	eceive-Only Satellite Site				
S	TBAS071-R0	SFE - IP Networking Satellite (TBAS050-R0 Prerequisite)	\$381.00		

Note: If a Dual configuration has been selected in step 1 above, repeat this option to select second channel software.

E/C	Model Number	Description	List Price
•	3 – P25 Trunking and Voting e of the following trunking option	g with Simulcast Enablers s below then move on to simulcast enablers if simulcast design is required.	
	A - P25 Trunking (Access) Ena choice for designs involving only	bler γ (1) functional site (i.e. one simulcast cell or a single site)	
S	TBAS050	SFE - P25 Common Air Interface (CAI)	\$6,450.00
S	TBAS070	SFE - P25 Trunking Operation (Access) (TBAS050 Prerequisite)	\$372.00
S	TBAS070-R0	SFE - P25 Access Trunking Operation Rx Only (TBAS050-R0 Prerequisite) (Applicable to Receive-Only stations)	\$186.00
Add-on C	Optional Features		
S	TBAS060	SFE - Digital Fixed Station Interface	\$523.00
S	TBAS063	SFE - Failsoft for P25 Trunking (TBAS070 Prerequisite)	\$508.00
S	TBAS066	SFE - P25 Trunking Phase 2 Operation (TBAS070 Prerequisite)	\$1,347.00
S	TBAS066-R0	SFE - P5 Trunking Phase 2 Operation Rx Only (TBAS070-R0 Prerequisite) (Applicable to Receive-Only stations)	\$673.00

Option 3B - P25 Trunking (Express6) Enabler Preferred choice for designs involving up to six (6) functional sites. A single simulcast cell is considered one functional site.							
S	TBAS050 SFE - P25 Common Air Interface (CAI) \$6,450.00						
S	TBAS072	SFE - P25 Trunking Operation (Express6) (TBAS050 Prerequisite) \$1,862.00					
S	TBAS072-R0 SFE - P25 Express6 Trunking Operation Rx Only (TBAS050-R0 Prerequisite) (Applicable to Receive-Only stations) \$931.00						
Add-on Optio	onal Features						
S	TBAS060 SFE - Digital Fixed Station Interface \$52						
S	TBAS063	SFE - Failsoft for P25 Trunking (TBAS072 Prerequisite)	\$508.00				
S	S TBAS066 SFE - P25 Trunking Phase 2 Operation (TBAS072 Prerequisite) \$1,347.00						
S	S TBAS066-R0 SFE - P5 Trunking Phase 2 Operation Rx Only (TBAS072-R0 Prerequisite) (Applicable to only Receive-Only stations) \$673.00						

	Option 3C: P25 Trunking (Full) Enabler Preferred choice for designs involving more than six (6) functional sites. A single simulcast cell is considered one functional site.						
S	TBAS050 SFE - P25 Common Air Interface (CAI) \$6,450.00						
S	TBAS050-R0	SFE - P25 Common Air Interface (CAI) Rx Only – (Applicable to only Receive-Only stations) \$3,225.00					
S	TBAS056 SFE - P25 Trunking Operation (Full) (TBAS050 Prerequisite) \$5,386.00						
S	TBAS056-R0	SFE - P25 Trunking Operation Rx Only (TBAS050-R0 Prerequisite) (Applicable to Receive-Only stations)\$2,693.00					
Add-on Optio	onal Features						
S	S TBAS060 SFE - Digital Fixed Station Interface \$523.00						
S	TBAS063 SFE - Failsoft for P25 Trunking (TBAS056 Prerequisite) \$508.00						
S	TBAS066 SFE - P25 Trunking Phase 2 Operation (TBAS056 Prerequisite) \$1,374.00						

TB9400

E/C	Model Number	Description	List Price \$673.00	
S	TBAS066-R0	SFE - P5 Trunking Phase 2 Operation Rx Only (TBAS056-R0 Prerequisite) (Applicable to Receive-Only stations)		
•	nd Simulcast Enablers eded if you are designing a sim	ulcast system. At least one master site/central voter is required in simulcast de	esigns.	
Master or	Central Voter Site			
S	TBAS061	SFE - Central Voter (TBAS050 Prerequisite)	\$4,826.00	
S	TBAS062	SFE - Simulcast Enable (TBAS061 Prerequisite)	\$4,730.00	
S	TBAS065	SFE - P25 Linear Simulcast Modulation (LSM) Phase 1 (TBAS062 Prerequisite)	\$1,365.00	
S	TBAS069	SFE - P25 Simulcast Enable Phase 2 (TBAS062 & TBAS066 Prerequisite)	\$1,365.00	
Satellite S	ite			
S	TBAS071	SFE - IP Networking Satellite (TBAS050 Prerequisite)	\$761.00	
S	TBAS062	SFE - Simulcast Enable (TBAS071 Prerequisite)	\$4,730.00	
S	TBAS065	SFE - P25 Linear Simulcast Modulation (LSM) Phase 1 (TBAS062 Prerequisite)	\$1,365.00	
S	TBAS069	SFE - P25 Simulcast Enable Phase 2 (TBAS062 & TBAS066 Prerequisite)	\$1,365.00	
Voted Red	ceive-Only Satellite Site			
S	TBAS071-R0	SFE - IP Networking Satellite (TBAS050-R0 Prerequisite)	\$381.00	

Note:

If a Dual configuration has been selected in step 1 above, repeat this option to select second channel software.

If a Multi-Receiver configuration has been selected and you have different Receiver software setups, please repeat this option/step for as many different Receiver channel configurations required.

Step Five (5 of 5) – Select any additional standalone accessories desired							
E/C	Model Number Description List Price						
S	S TBAA03-13 Auxiliary Support Bracket, TB8/9 \$35.00						
S	TBAA03-16 Carrying Handles, TB8/9 \$43.00						
S	T01-01150-0003	Upgrade Kit, Single Channel, TB9400	\$71.00				

TB9100 Base Station – P25, ANALOG

Base StationsOptions & Accessories



P25, ANALOG • BASE STATION INFRASTRUCTURE

TB9100

Intelligent • Flexible • High Performance

The TB9100 base station offers continuous duty cycle operation at full performance specifications within the complete temperature and altitude range.

With a flexible, modular design, practical features and value, the TB9100 raises the bar for APCO Project 25 (P25) base stations. It utilizes 28V FET technology for superior performance and reliability. The TB9100 operates both as a repeater and/or a line-connected base station.

What's more, it's even easier to use. Flexible operating and programming software with an intuitive user interface is at the heart of the TB9100, making it very integrator friendly and easily expandable.

Practical easy-to-use features coupled with impressive RF performance help make the TB9100 the best choice for your next generation P25 base station.



The TB9100 offers you the following features:

- 255 Channels with up to 4 CTCSS or 4 DCS tones per channel
- Full Remote Control and Diagnostics
- Choice of external interface configurations
- Programmable Operation
- Software Enabled Feature upgrade options
- Choice of single 5W, 50W or 100W configurations
- Seamless backup battery operation and charging with ACDC supply

Frequency	5W	50W	100W	5W Dual	5W + 50W Dual	50W Dual
136–156	• •	• •	•	• •	• •	• •
148–174	• •	• •	•	• •	• •	• •
380-420	• •	• •	•	• •	• •	• •
400–440	• •	• •	•	• •	• •	• •
440–480	• •	• •	•	• •	• •	••
470–520	• •	• •	•	• •	• •	• •
762–869	• •	• •	•	• •	• •	• •

+ = 28V PMU solution

• = 12VDC PA Only solution

Note:

Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.

- DC power options are 12/24/48VDC with AUX output.
- AC power options are 110/240VAC + AUX output.
- ACDC power options are AC + 12/24/48VDC + AUX output.
- Auxiliary (AUX) power output voltage options are 12VDC, 24VDC or 48VDC AUX.
- Other options are available including Receive Only.
- With Receive Only you can have up to five receivers/reciters with a PMU or up to seven receivers/reciters without a PMU can be fitted in a rack.

Intelligent • Flexible • High Performance

Digital Controller Design

Designed from the ground up, the TB9100 features a state-of-the-art RISC processor and Digital Signal Processor (DSP), providing very fast, reliable data processing through the latest in digital technology.

28V Technology

More powerful than most base stations in its class. Tait tests the TB9100 to transmit continuously at full power with ambient air temperatures as high as +60°C (140°F) at 4572m (15,000 feet).

Advanced Programming Capabilities

The TB9100's intuitive yet comprehensive programming software with Graphical User Interface (GUI) lets you manage and program over 150 critical parameters, including all monitoring, configuration management and power management features.

Convenient Modular Design

Designed for ease of hook-up and adaptation in the field, the TB9100 is configured with front-loading modules that can be mixed and matched to meet your system needs. Whether expanding from 50 to 100 Watts, or replacing the PA, or creating a receive-only system, the TB9100 gives you the flexibility to make changes in the field. A clean back-panel design hides the usual rear unit wiring clutter displaying only the connections required to link to your external radio system.

Built-in Standard Interfaces

The TB9100 has built-in a variety of industry-standard interfaces to enable easy connectivity to the rest of your system. Whether adding a TB9100 to your network through its IP Ethernet, or attaching an analog base station or analog dispatch console through its 4-wire E&M audio line interface, you can connect to a TB9100 directly without additional hardware.

12V PA Version

The TB9100 is also available without a Power Management Unit. The PA system is based on a 12V PA that contains a 12 to 28 volt converter.

Self-Monitor Capability

The TB9100 manages self-monitoring parameters in its non-volatile memory, requiring no external costly monitor units, saving money, time and hassles. The advanced monitoring system will read the base status, determine the appropriate required action, and perform that action while alerting central control.

Power Management System

The comprehensive power management system provides the ability to automatically switch between AC and DC input power, to move to battery operation in the case of power failure, and to provide an auxiliary power supply for third-party equipment.

Complete Remote Accessibility

The advanced intuitive interface of the TB9100 Customer Service Software (CSS) makes remote management of your system simple. The selfmonitoring application has dial-out capability so you are immediately notified of potential issues. Over 150 system parameters can be configured or monitored remotely with the TB9100 Customer Service Software.

Robust Specifications

Built to exceed standard specifications, the TB9100 is designed to withstand extreme temperature conditions. Engineered for maximum reliability, the TB9100 has large heat sinks, advanced cooling, and the intelligence to maintain the highest possible levels of service in adverse environments.

Peak RF Performance

With outstanding specifications for selectivity, adjacent channel interference and fast key-up times, the TB9100 base station was designed using the best RF practices. You can depend on the RF performance of this base station even in the most extreme temperature conditions.

Export Control Note

For Digital P25 products which are capable of encryption.

Products capable of utilizing high level encryption such as AES or DES-OFB (based on TDES) are classified as strategic goods and export/delivery is subject to controls of the New Zealand Ministry of Foreign Affairs and Trade.

High-level encryption is defined as exceeding 56 bits of key length.

For products supplied to Argentina, Australia, Austral, Belgium, Bulgaria, Canada, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Japan, Korea South, Luxembourg, Norway, Poland, Portugal, Russia, Slovenia, South Africa, Spain, Sweden, Switzerland, The Netherlands, Ukraine, United Kingdom or The United States, and which stay within that country, the following information needs to be supplied at time of order:

- Intermediate Destinations (sales organizations, dealers, customer distribution center)
 - Business / Agency Name
 - Address
- Ultimate Destination (must be within the same country)
 - Business / Agency Name
 - Address
 - Contact Person Name

For products supplied to any other country: At time of order an end-user certificate needs to be completed and following information needs to be supplied:

- Intermediate Destinations (sales organizations, dealers, customer distribution center)
 - Business / Agency Name
 - Address
 - Contact Person Name
- Ultimate Destination
 - Business / Agency Name
 - Address
 - Contact Person Name
 - Intended use of equipment
 - All countries where the equipment will be used

If the product is to be shipped outside the country of shipment, individual export licenses are still required as well as signed end-user certificates. Please be advised that an individual export license can take approximately 2-8 weeks to be processed.

Products not capable of high-level encryption are not subject to export controls.

Additional note that must be included on the invoice and shipping papers:

"This product is subject to New Zealand export controls. An express prior written authorization of the Government of New Zealand is required for reexport, re-sell, or otherwise disposal of the equipment or any part of the equipment."

P25 Base Station Configurations

Use the options below to complete the TB9100 Base Station item codes shown on pages 5.1-16 to 5.1-20. For more configuration options, please refer to the TB9100 Base Station configuration table on page 5.1-16.

For Example:

Replace characters in the item code to reflect the chosen options. _____

Single Base Station	TB9115FFHX0000YZ00						
Dual Base Station	TB9115FFDXFFDXYZ00						
Where:		Where:					
Frequency Options (FF)	:	Dispatcher Encryption Options (X):					
<mark>B2</mark> = 136-156MHz		P = Conventional					
B3 = 148-174MHz		E = Encrypted					
H1 = 400-440MHz		T = Trunking					
H2 = 440-480MHz		To order:					
H3 = 470-520MHz		 replace X with the required option 					
H4 = 380-420MHz		Where:					
K4 = 794-824 & 762-870MHz		PMU Options (Y):					
L2 = 852-930MHz		Y = AC, DC or ACDC PMU					
To order:		To order:					
replace FF with the r	required frequency code	replace Y with the required option. Please choose the PMU from					
• dual reciter systems	require a code for each reciter	the TB9100 Base Station configuration table on page 5.1-16					
for a dual system with	th 1x5W and 1x50W reciter:	Where:					
• the first FF code is for the 5W reciter		Power cord Options (Z):					
• the second FF code is for the 50W reciter		Z = AC or ACDC PMU, power cord is required					
		= DC PMU, a power cord is not required To order:					

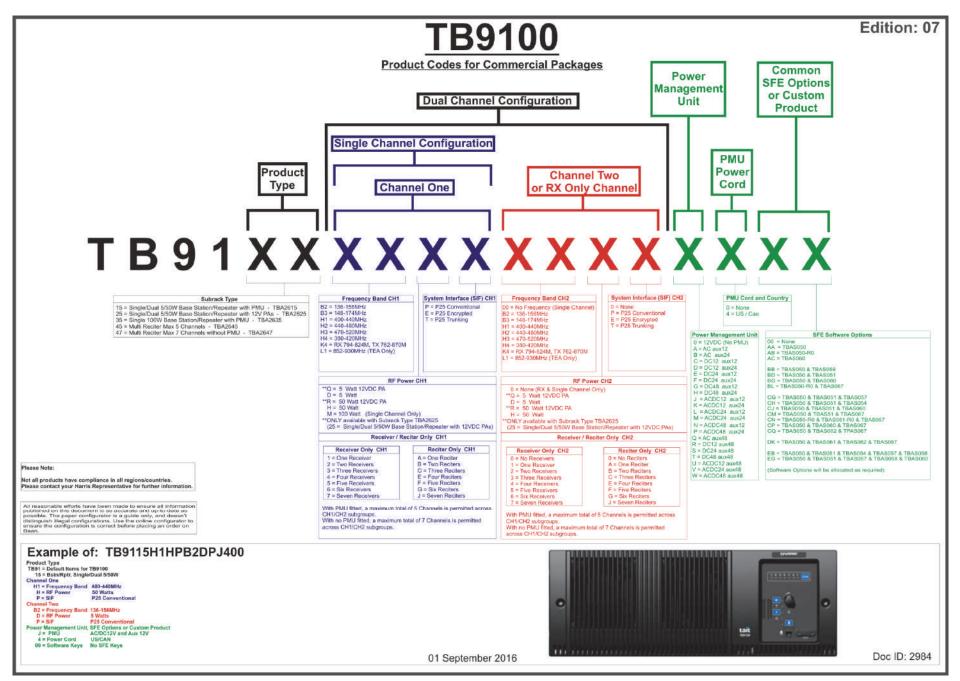
replace Z with the required option. Please choose the power cord ▶ from the TB9100 Base Station configuration table on page 5.1-16

Note:

- Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information. •
- K4 frequency coverage is Transmit: 762-776MHz & 850-870MHz Receive: 794-824MHz
- Standard base stations transport encrypted speech, and are not subject to encryption-related export restrictions. •
- Dispatcher Encryption Capable base stations additionally support de/encryption on analog and digital dispatcher interfaces. These base • stations are subject to encryption-related export control. Please refer to page 5.1-14.
- Important: Standard base stations can never be upgraded to Dispatcher Encryption Capable. •

Software Options:

Please note that additional configuration cost will apply for digital operation options, such as TBAS050 CAI and other options. See page 5.1-23 for software options.



P25, ANALOG • BASE STATION INFRASTRUCTURE

TB9100

Base Station - Single with PMU

Standard Package Includes:

- Subrack including front panel with dual fans
- Control panel
- Power Management Unit (PMU) options as selected
- Power Amplifier (PA)
- P25 reciter (receiver/exciter)
- Crossover and audio cables
- CD with service software and product documentation

Options:

- Frequency: Choose the frequency ("FF" value) from the TB9100 Base Station configuration table on page 5.1-16
- System Interface (SIF): Choose the SIF ("X" value) from the TB9100 Base station configuration table on page 5.1-16
- PMU
 - AC = Input of 110/240VAC with AUX output. DC = Input of 12/24/48VDC with AUX output
 - ACDC = Inputs of 110/240VAC + 12/24/48VDC with AUX output
 - Auxiliary (AUX) power output voltage options are 12VDC, 24VDC or 48VDC AUX.
 - Other PMU options are also available, please refer to pages 5.1-35 to 5.1-38
 - Choose the PMU from the TB9100 Base Station configuration table on page 5.1-16
- Power Cord: Choose the Power Cord from the TB9100 Base Station configuration table on page 5.1-16. Please note that for the DC PMU option, a power cord is not required.
- Multi-reciter configurations are also available. Up to five receivers/reciters with PMU can be fitted in a rack or up to seven receivers/reciters without PMU can be fitted in a rack.
- ▶ For more configuration options, please refer to the TB9100 Base Station configuration table on page 5.1-16 and Software feature enhancement options are available on page 5.1-23. Additional configuration costs may apply

Note:

Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.

Frequency Code	Frequency Band	TB9115 Single/Dual 5/50W with PMU	TB9125 Single/Dual 5/50W with 12V PA	TB9135 Single 100W with PMU	TB9145 Multi Reciter Max 5 channels	TB9147 Multi Reciter Max 7 channels without PMU
B2	136–156MHz	\checkmark		\checkmark	\checkmark	\checkmark
B3	148-174MHz	\checkmark		\checkmark	\checkmark	\checkmark
H1	400-440MHz	\checkmark		\checkmark	\checkmark	\checkmark
H2	440-480MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H3	470-520MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H4	380-420MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
K4	RX 896-902MHz TX 927-941MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
L2	RX 896-902MHz TX 927-941MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark



P25, ANALOG • BASE STATION INFRASTRUCTURE

TB9100

Base Station - Dual with PMU

Standard Package Includes:

- Subrack including front panel with dual fans
- Control panel
- Power Management Unit (PMU) options as selected
- Power Amplifier (PA)
- P25 reciter (receiver/exciter)
- Crossover and audio cables
- CD with service software and product documentation

Options:

- Frequency: Choose the frequency from the TB9100 Base Station configuration table on page 5.1-16
- System Interface (SIF): Choose the SIF from the TB9100 Base Station configuration table on page 5.1-16
- ► PMU:
 - AC = Input of 110/240VAC with AUX output DC = Input of 12/24/48VDC with AUX output
 - ACDC = Inputs of 110/240VAC + 12/24/48VDC with AUX output
 - Auxiliary (AUX) power output voltage options are 12VDC, 24VDC or 48VDC AUX.
 - Other PMU options are also available, please refer to page 5.1-35 to 5.1-38
 - Choose the PMU from the TB9100 Base Station configuration table on page 5.1-16
- Power Cord: Choose the Power Cord from the TB9100 Base Station configuration table on page 5.1-16. Please note that for the DC PMU option, a power cord is not required.
- Multi-reciter configurations are also available. Up to five receivers/reciters with PMU can be fitted in a rack or up to seven receivers/reciters without PMU can be fitted in a rack.
- ▶ For more configuration options, please refer to the TB9100 Base Station configuration table on page 5.1-15 and Software feature enhancement options are available on page 5.1-23. Additional configuration costs may apply

Note:

Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.

Frequency Code	Frequency Band	TB9115 Single/Dual 5/50W with PMU	TB9125 Single/Dual 5/50W with 12V PA	TB9135 Single 100W with PMU	TB9145 Multi Reciter Max 5 channels	TB9147 Multi Reciter Max 7 channels without PMU
B2	136–156MHz	\checkmark			\checkmark	\checkmark
B3	148-174MHz	\checkmark			\checkmark	
H1	400-440MHz	\checkmark	\checkmark	\checkmark	\checkmark	
H2	440-480MHz	\checkmark	\checkmark	\checkmark	\checkmark	
H3	470-520MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H4	380-420MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
K4	RX 896-902MHz TX 927-941MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
L2	RX 896-902MHz TX 927-941MHz	\checkmark	\checkmark	\checkmark	\checkmark	



TB9100

Base Station - Single with 12VDC PA, no PMU

Standard Package Includes:

- Subrack including front panel with PA fan
- Control panel
- Power Amplifier (PA)
 - The 12VDC PA contains a 12 to 28 volt converter
- P25 reciter (receiver/exciter) with system interface
- Crossover and audio cables
- CD with service software and product documentation

Options:

- Frequency: Choose the frequency from the TB9100 Base Station configuration table on page 5.1-16
- System Interface (SIF): Choose the SIF from the TB9100 Base Station configuration table on page 5.1-16
- Multi-reciter configurations are also available. Up to seven receivers/reciters without PMU can be fitted in a rack.
- ▶ For more configuration options, please refer to the TB9100 Base Station configuration table on page 5.1-16 andSoftware feature enhancement options are available on page 5.1-23. Additional configuration costs may apply

Note:

Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.

Frequency Code	Frequency Band	TB9115 Single/Dual 5/50W with PMU	TB9125 Single/Dual 5/50W with 12V PA	TB9135 Single 100W with PMU	TB9145 Multi Reciter Max 5 channels	TB9147 Multi Reciter Max 7 channels without PMU
B2	136–156MHz	\checkmark	\checkmark		\checkmark	
B3	148-174MHz	\checkmark	\checkmark		\checkmark	
H1	400-440MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H2	440-480MHz	\checkmark	\checkmark		\checkmark	\checkmark
H3	470-520MHz	\checkmark	\checkmark		\checkmark	
H4	380-420MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
K4	RX 896-902MHz TX 927-941MHz	\checkmark	\checkmark		\checkmark	\checkmark
L2	RX 896-902MHz TX 927-941MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark



TB9100

Base Station - Single Receive only

Standard Package Includes:

- Subrack including front panel with PMU fan
- Control panel
- Power Management Unit (PMU) options as selected
- P25 reciter (receive only)
- Crossover and audio cables
- CD with service software and product documentation



Options:

- Frequency: Choose the frequency from the TB9100 Base Station configuration table on page 5.1-16
- System Interface (SIF): Choose the SIF from the TB9100 Base Station configuration table on page 5.1-16
- ▶ PMU:
 - AC = Input of 110/240VAC with AUX output. DC = Input of 12/24/48VDC with AUX output
 - ACDC = Inputs of 110/240VAC + 12/24/48VDC with AUX output
 - Auxiliary (AUX) power output voltage options are 12VDC, 24VDC or 48VDC AUX.
 - Other PMU options are also available, please refer to page 5.1-35 to 5.1-38
 - Choose the PMU from the TB9100 Base Station configuration table on page 5.1-16
- Power Cord: Choose the Power Cord from the TB9100 Base Station configuration table on page 5.1-16. Please note that for the DC PMU option, a power cord is not required.
- Multi-reciter configurations are also available. Up to five receivers/reciters with PMU can be fitted in a rack or up to seven receivers/reciters without PMU can be fitted in a rack.
- For more configuration options, please refer to the TB9100 Base Station configuration table on page 5.1-16 and Software feature enhancement options for Receive Only systems are available on page 5.1-23 including specific SFE codes. Additional configuration costs may apply

Note:

Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.

Frequency Code	Frequency Band	TB9115 Single/Dual 5/50W with PMU	TB9125 Single/Dual 5/50W with 12V PA	TB9135 Single 100W with PMU	TB9145 Multi Reciter Max 5 channels	TB9147 Multi Reciter Max 7 channels without PMU
B2	136–156MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
B3	148-174MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H1	400-440MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H2	440-480MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H3	470-520MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H4	380-420MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
K4	RX 896-902MHz TX 927-941MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
L2	RX 896-902MHz TX 927-941MHz	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

TB9100

Base Station - Transportable Repeater

Overview:

> The high performance TB9100 can now be packaged into a rugged, lightweight Pelican case.

Standard Package Includes:

- Repeater
- Built-in 5-40W output power
- Ruggedized briefcase (IP67) available in multiple colors
- Internal duplexer
- External antenna via N-type female RF connector
- Waterproof DC input connector
- Channel change button
- > 700/80MHz versions include a built-in, high-stability frequency reference

Options:

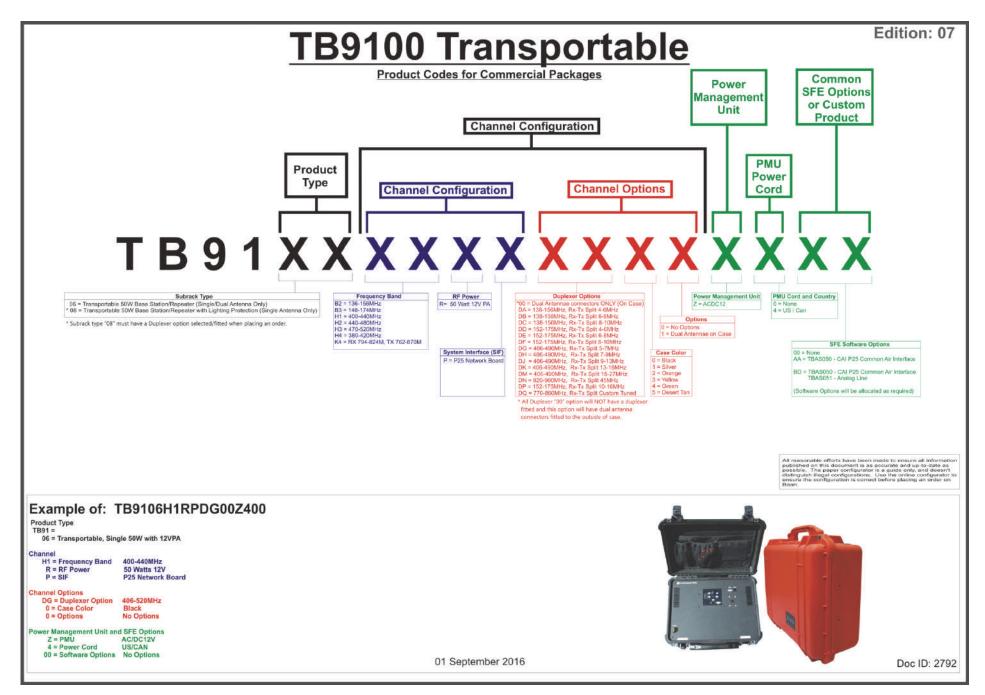
- Frequency: Choose the frequency ("FF" value) from the TB9100 Transportable Base Station configuration table on page 5.1-22
- PMU:
 - AC = Input of 110/240VAC with AUX output
 - DC = Input of 12/24/48VDC with AUX output
 - ACDC = Inputs of 110/240VAC + 12/24/48VDC with AUX output
 - Auxiliary (AUX) power output voltage options are 12VDC, 24VDC or 48VDC AUX.
 - Other PMU options are also available, please refer to page 5.1-35 to 5.1-38
 - Choose the PMU ("Y" value) from the TB9100 Transportable Base Station configuration table on page 5.1-22
- Power Cord: Choose the Power Cord ("Z" value) from the TB9100 Transportable Base Station configuration table on page 5.1-22. Please note that for the DC PMU option, a power cord is not required.

Note:

- > Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.
- Additional configuration costs may apply
- > Please contact your customer support representative for duplexer channel spacing options ("XX" value)
- For more configuration options, please refer to the TB9100 Transportable Base Station configuration table on page 5.1-22.

Frequency Code	Frequency Band	TB9106 Single/Dual 5/50W 12V PA without Lightning Arrestor	TB9108 Single Antenna Only 5/50W 12V PA with Lightning Arrestor
B2	136–156MHz	\checkmark	\checkmark
В3	148-174MHz	\checkmark	\checkmark
H1	400-440MHz	\checkmark	\checkmark
H2	440-480MHz	\checkmark	\checkmark
H3	470-520MHz	\checkmark	\checkmark
H4	380-420MHz	\checkmark	\checkmark
K4	RX 896-902MHz TX 927-941MH:	\checkmark	\checkmark





OPTIONS & ACCESSORIES TB9100

Software Options

Note:

A TB9100 includes the CSS (Customer Service Software), but to activate it for the first time, a TBAKEY01 must be ordered. The TBAKEY01 is a multiseat license key which allows customers to install their CSS on as many computers as they wish.

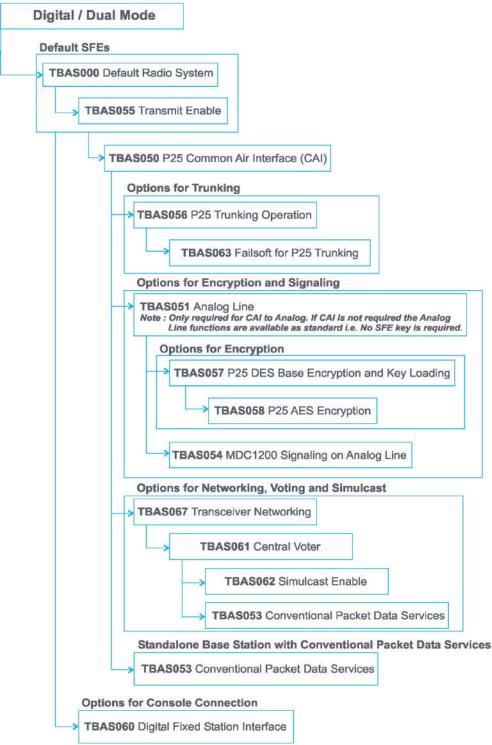
ITEM CODE	DESCRIPTION			
TBAKEY01	TB9100 Software License Installer			
TBAS050	SFE Key - P25 Common Air Interface (CAI) (TB91/94)			
TBAS051	SFE Key - Analog Line (TB91)			
TBAS053	SFE Key - Conventional Packet Data Services (91)			
TBAS054	SFE Key - MDC1200 Signalling on Analog Line (TB91)			
TBAS055	SFE Key - Transmit Enable (TB91)			
Note: Enables the transmitter in a reciter init Additional payment may be required if SFEs	ially configured as receiver only. have been activated on the receive only reciter.			
TBAS056	SFE Key - P25 Trunking Operation (TB91/94)			
Note: Please contact your L3Harris custome	r support representative if uplink voting/simulcast is required in a trunking situation.			
TBAS057	SFE Key - P25 Base Encryption & Key Loading (TB91)			
Note: Enables DES encryption/decryption or Requires TBAS051 (applicable to TB9100 red	n the analog line. citer when built as dispatcher encryption capable. Included as standard on console gateway).			
TBAS058	SFE Key - P25 AES Encryption (TB91)			
Note: Enables AES encryption/decryption of Requires TBAS051 & TBAS057 (applicable to	n the analog line. o TB9100 reciter when built as dispatcher encryption capable. Included as standard on console gateway)			
TBAS060	SFE Key - Digital Fixed Station Interface (TB91)			
Note: One SFE per channel group, adding a	second SFE in the channel group for redundancy is recommended.			
TBAS061	SFE Key - Central Voter (TB91)			
Note: One SFE per Base Station is required	for Simulcast Networks.			
TBAS062	SFE Key - Simulcast Enable (TB91/94)			
TBAS063	SFE Key - Failsoft for P25 Trunking (TB91/94)			
TBAS067	SFE Key - Transceiver Networking (TB91/94)			
TBAS083	SFE Key - 20/25khz Unrestricted Wideband (81/82/91)			
RECEIVE ONLY				
TBAS050-R0	SFE Key - P25 Common Air Interface (CAI) Rx Only (TB91/94)			
TBAS051-R0	SFE Key - Analog Line Rx Only (TB91)			
TBAS054-R0	SFE Key - MDC1200 Signalling on Analog Line Rx Only (TB91)			
TBAS056-R0	SFE Key - P25 Trunking Operation Rx Only (TB91/94)			
Note: Please contact your L3Harris custome	r support representative if uplink voting/simulcast is required in a trunking situation.			
TBAS057-R0	SFE Key - P25 Base Encryption & Key Loading Rx Only (TB91)			
Note: Enables DES encryption/decryption or Requires TBAS051 (applicable to TB9100 red	n the analog line. citer when built as dispatcher encryption capable. Included as standard on console gateway)			
TBAS058-R0	SFE Key - P25 AES Encryption Rx Only(TB91)			
Note: Enables AES encryption/decryption of Requires TBAS051 & TBAS057 (applicable to	n the analog line. o_TB9100 reciter when built as dispatcher encryption capable. Included as standard on console gateway))			
TBAS060-R0	SFE Key - Digital Fixed Station Interface Rx Only (TB91)			
Note: One SFE per channel group, adding a	second SFE in the channel group for redundancy is recommended			
TBAS061-R0	SFE Key - Central Voter Rx Only (TB91)			
Note: One SFE per Base Station is required	for Simulcast Networks.			

Software maintenance and support is available on an annual renewal basis. Software maintenance ensures your software investment remains fully operational, high performing and current through updates that also include valuable new features – Please contact your L3Harris Representative for further details

Software Licences - Digital / Dual Mode

All software enhancements are enabled on a per feature per reciter basis.

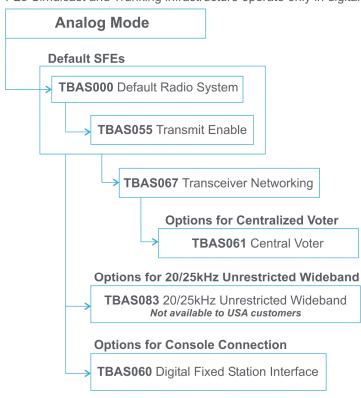
P25 Simulcast and Trunking infrastructure operate only in digital mode and do not support analog FM operation.



OPTIONS & ACCESSORIES TB9100

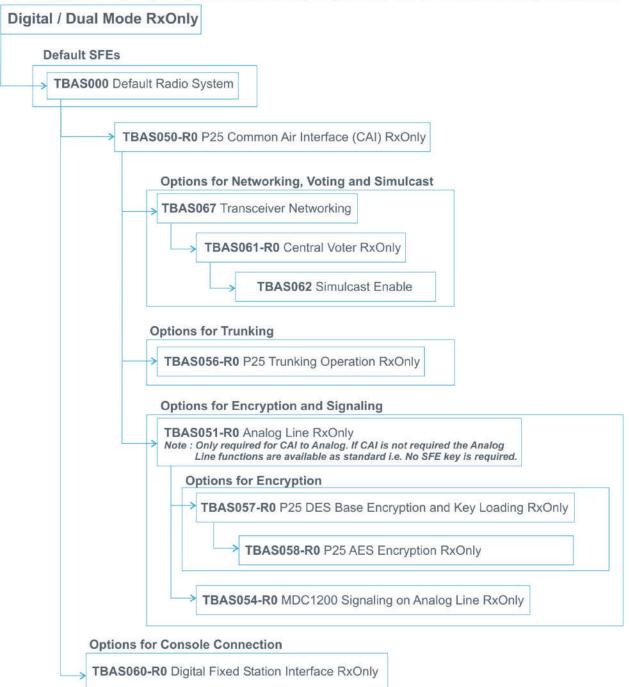
Software Licences - Analog Mode

All software enhancements are enabled on a per feature per reciter basis. P25 Simulcast and Trunking infrastructure operate only in digital mode and do not support analog FM operation.



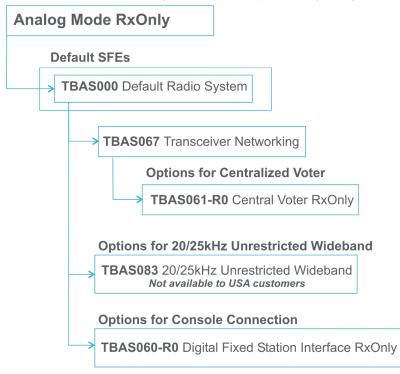
Software Licences - Digital / Dual Mode Rx Only

All software enhancements are enabled on a per feature per reciter basis. P25 Simulcast and Trunking infrastructure operate only in digital mode and do not support analog FM operation.



Software Licences - Analog Mode Rx Only

All software enhancements are enabled on a per feature per reciter basis. P25 Simulcast and Trunking infrastructure operate only in digital mode and do not support analog FM operation.



Outline of Software Feature Sets

TB9100

TBAS000 Baseline Feature Set

The default radio system feature allows the base station to transmit and receive Analog FM transmissions. The base station can make Analog FM speech calls from the Analog line and pass received Analog FM calls to the Analog line.

TBAS050 P25 Common Air Interface (CAI)

The P25 common air interface feature allows the base station to transmit and receive P25 digital voice transmissions.

TBAS051 Analog Line

The Analog line feature allows the base station or P25 Console Gateway to make digital P25 speech calls from the Analog line and to pass received digital P25 calls to the Analog line. This feature is not needed for Analog FM mode, for tone remote signalling, or for TSBKs.

TBAS053 Conventional Packet Data Services

The Conventional Packet Data Services is a network element that can be configured to function as a packet data gateway for use in a P25 conventional network. This function is not used in trunked networks. The following network elements are suitable for this role: standalone base station or base station in a channel group (must be the central voter).

TBAS054 MDC1200 Signalling on Analog Line

The MDC1200 signalling on Analog line feature allows the conversion between MDC1200 signalling and P25 TSBKs. Console systems can then use MDC1200 for ANI and other subscriber signalling to and from SUs that are operating in P25 digital mode. (In Analog FM mode, network elements pass MDC1200 transparently and do not need this feature.)

TBAS056 P25 Trunking Operation

The trunking feature allows a base station to become a trunking master, functioning as an interface between the trunking site controller and the channel group. The availability of this feature license is restricted.

TBAS057 P25 Base Encryption and Key Loading

The P25 base encryption and key loading feature allows the P25 base station or Console Gateway to encrypt and decrypt speech using the DES-OFB encryption algorithm, with TIA compliant 56-bit security. Subject to Export License Control.

TBAS058 P25 AES Encryption

The P25 AES encryption feature allows the base station or P25 Console Gateway with a base encryption feature to also encrypt and decrypt speech using the AES algorithm with TIA compliant 256-bit security. Subject to Export License Control.

TBAS060 Digital Fixed Station Interface (DFSI)

The digital fixed station interface feature allows a DFSI connection to a digital dispatch system (fixed station host), in conventional systems. The base station or P25 Console Gateway can then be an interface between its channel group and a digital dispatch system.

TBAS061 Central Voter

The central voter feature allows the network element to act as a central voter within its channel group. This feature also allows voice networking. Only network elements that will centrally vote (normally the central voter and its backup) need this feature. The other members of the channel group only need the networking with distributed voter feature.

TBAS062 Simulcast Enable

The simulcast enable feature is required in base stations which have transmitters and belong to a simulcast network.

TBAS063 Failsoft for P25 Trunking

The Failsoft for P25 trunking feature allows trunked channels which become isolated from a site controller to perform simple conventional operation and to interface to a digital dispatch system. If a trunked channel consists of several base stations in a channel group, only the central voter (normally the master) needs this license. It is then able to become the Failsoft gateway.

TBAS067 Transceiver Networking

This feature allows base stations to network together to form a channel group.

TBAS083 20/25kHz Unrestricted Wideband

This feature allows Wideband operation of 20/25kHz. NOT used in the USA market places

Outline of Software Feature Sets- continued

TB9100 Rx-only

TBAS050-R0 P25 Common Air Interface (CAI)

The P25 common air interface feature allows the base station to transmit and receive P25 digital voice transmissions.

TBAS051-R0 Analog Line

The Analog line feature allows the base station or P25 Console Gateway to make digital P25 speech calls from the Analog line and to pass received digital P25 calls to the Analog line. This feature is not needed for Analog FM mode, for tone remote signalling, or for TSBKs.

TBAS054-R0 MDC1200 Signalling on Analog Line

The MDC1200 signalling on Analog line feature allows the conversion between MDC1200 signalling and P25 TSBKs. Console systems can then use MDC1200 for ANI and other subscriber signalling to and from SUs that are operating in P25 digital mode. (In Analog FM mode, network elements pass MDC1200 transparently and do not need this feature.)

TBAS056-R0 P25 Trunking Operation

The trunking feature allows a base station to become a trunking master, functioning as an interface between the trunking site controller and the channel group. The availability of this feature license is restricted.

TBAS057-R0 P25 Base Encryption and Key Loading

The P25 base encryption and key loading feature allows the P25 base station or Console Gateway to encrypt and decrypt speech using the DES-OFB encryption algorithm, with TIA compliant 56-bit security. Subject to Export License Control.

TBAS058-R0 P25 AES Encryption

The P25 AES encryption feature allows the base station or P25 Console Gateway with a base encryption feature to also encrypt and decrypt speech using the AES algorithm with TIA compliant 256-bit security. Subject to Export License Control.

TBAS060-R0 Digital Fixed Station Interface (DFSI)

The digital fixed station interface feature allows a DFSI connection to a digital dispatch system (fixed station host), in conventional systems. The base station or P25 Console Gateway can then be an interface between its channel group and a digital dispatch system.

TBAS061-R0 Central Voter

The central voter feature allows the network element to act as a central voter within its channel group. This feature also allows voice networking. Only network elements that will centrally vote (normally the central voter and its backup) need this feature. The other members of the channel group only need the networking with distributed voter feature.

0 = Standard base station includes support for encrypted speech

SPARES OPTIONS & ACCESSORIES TB9100

Dispatcher Encryption Options (X):

C = Dispatcher encryption capable

replace X with the required option

To order:

•

Reciter (Receiver/Exciter) Options

Use the options below to complete the TB9100 Reciter item codes shown on page 5.1-32.

For Example:

Replace characters in the item code to reflect the chosen options.

TB9100 Conventional Reciter	TBA40FF-PAX0	
TB9100 Trunking Reciter	TBA40FF-PB00	
Where:		Wł

W	/he	re:

Frequency Options (FF):

- B2 = 136-156MHz
- **B3** = 148-174MHz
- H1 = 400-440 MHz
- H2 = 440-480MHz
- H3 = 470-520MHz
- H4 = 380-420MHz
- K4 = 794-824 & 762-870MHz

To order:

replace FF with the required frequency code

Note:

- Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information. ▶
- K4 frequency coverage is - Transmit: 762-776MHz & 850-870MHz - Receive: 794-824MHz
- ▶ Standard base stations transport encrypted speech, and are not subject to encryption-related export restrictions.
- Dispatcher Encryption Capable base stations additionally support de/encryption on analog and digital dispatcher interfaces. These base ▶ stations are subject to encryption-related export control, please refer to page 5.1-15.
- Important: Standard base stations can never be upgraded to Dispatcher Encryption Capable. ▶

SPARES OPTIONS & ACCESSORIES

Reciters (Receiver/Exciter)

Overview

- A Reciter consists of a receiver and exciter including RF, DSP & audio stages to give stable performance for the life of the products.
- A RISC processor controls the Task Manager, alarm system, fault monitoring, diagnostics, remote connectivity, and channel behavior.
- The unit includes an internally fitted system interface module (SIF) allowing configuring of the I/O system to suit the user's requirements.
- Single and dual reciter systems are available as standard. Multiple reciter systems are available on request - up to seven reciters or up to five reciters plus PMU in a subrack. Please contact your L3Harris customer support representative for further details.



TB9100

Note:

- > Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.
- Additional configuration costs may apply

Choose the frequency ("FF" value) from the table on page 5.1-30.

ITEM CODE	DESCRIPTION
TBA40FF-PA00	Base Station Conventional Reciter
TBA40FF-PAC0	Base Station Conventional Reciter Crypto Enabled
TBA40FF-PB00	Base Station Trunking Reciter
TBA50FF-PA00	Base Station Reciter Receive only
TBA50FF-PAC0	Base Station Reciter Receive only Crypto Enabled
TBA50FF-PB00	Base Station Trunking Reciter Receive only Crypto Enabled

SPARES OPTIONS & ACCESSORIES TB9100



Accessories

TBA-SP-2060

Spare Multi Reciter Control Panel

ITEM CODE	DESCRIPTION
Front Panels	
TBA-SP-F2130	TB8100/9100 Spare Front Panel without Fans & no Labelling
TBA-SP-F2132	TB8100/9100 Spare Front Panel with 2 Fans & no Labelling
TBA-SP-F2135	TB8100/9100 Spare Front Panel with PA Fan & no Labelling
TBA-SP-F2136	TB8100/9100 Spare Front Panel with PMU Fan & no Labelling
Control Panel Spares	
TBA-SP-2060	TB8100/9100 Spare Multi Reciter Control Panel
Cable	
TBAA04-05	TB8100/9100 Dual Channel Auxiliary Power Cable 2way Kit

TB9100

SPARES OPTIONS & ACCESSORIES

Power Amplifiers (PA)

Used with the PMU TB9100 system:

- Broadband
- Remotely configurable and programmable
- ▶ 100% duty cycle @ 60°C (140°F)
- 2.5 millisecond key-up-time
- Programmable output power in 1W steps
- Up to two 5W and/or 50W PA can be fitted into a TB9100 subrack
- A limit of one 100W PA can be fitted into a TB9100 subrack



DESCRIPTION	
TB8100/9100 Power Amplifier 136-174M 5W	
TB8100/9100 Power Amplifier 380-520M 5W	
TB8100/9100 Power Amplifier 762-870M 5W	
TB8100/9100 Power Amplifier 136-174M 50W	
TB8100/9100 Power Amplifier 380-520M 50W	
TB8100/9100 Power Amplifier 762-870M 50W	
TB8100/9100 Power Amplifier 136-174M 100W	
TB8100/9100 Power Amplifier 380-520M 100W	
TB8100/9100 Power Amplifier 762-870M 100W	
	TB8100/9100 Power Amplifier 136-174M 5W TB8100/9100 Power Amplifier 380-520M 5W TB8100/9100 Power Amplifier 762-870M 5W TB8100/9100 Power Amplifier 136-174M 50W TB8100/9100 Power Amplifier 380-520M 50W TB8100/9100 Power Amplifier 762-870M 50W TB8100/9100 Power Amplifier 762-870M 50W TB8100/9100 Power Amplifier 762-870M 50W TB8100/9100 Power Amplifier 380-520M 50W TB8100/9100 Power Amplifier 380-520M 50W TB8100/9100 Power Amplifier 380-520M 100W TB8100/9100 Power Amplifier 380-520M 100W

TB9100

SPARES OPTIONS & ACCESSORIES

Power Amplifiers (PA) - 12VDC

Used with the 12VDC PA only TB9100 system:

- Broadband
- Remotely configurable and programmable
- 100% duty cycle @ 60°C (140°F)
- ▶ 2.5 millisecond key-up-time
- Programmable output power in 1W steps
- Up to two 5W and/or 50W PA can be fitted into a TB9100 subrack



ITEM CODE	DESCRIPTION
TBA71B1-0000	TB8100/9100 Power Amplifier 136-174M 5W 12VDC
TBA71H0-0000	TB8100/9100 Power Amplifier 380-520M 5W 12VDC
TBA71K2-0000	TB8100/9100 Power Amplifier 762-870M 5W 12VDC
TBA81B1-0000	TB8100/9100 Power Amplifier 136-174M 50W 12VDC
TBA81H0-0000	TB8100/9100 Power Amplifier 380-520M 50W 12VDC
TBA81K2-0000	TB8100/9100 Power Amplifier 762-870M 50W 12VDC

SPARES OPTIONS & ACCESSORIES



Power Management Units (PMU) - AC

Standard Package Includes:

- ▶ 88 to 264V input with power factor correction
- Sufficient output power to drive 1 x 100W transmitter or up to two 5/50W transmitters
- Remotely controllable and programmable
- Built-in alarms and diagnostics



ITEM CODE	DESCRIPTION	
TBA30A0-0100	TB8000/9000 Power Management Unit AC aux12	
TBA30A0-0200	TB8000/9000 Power Management Unit AC aux24	
TBA30A0-0400	TB8000/9000 Power Management Unit AC aux48	

SPARES OPTIONS & ACCESSORIES

Power Management Units (PMU) - DC

Standard Package Includes:

- Operates from 12, 24 or 48VDC supply
- Input supply can be negatively or positively earthed
- Sufficient output power to drive 1 x 100W transmitter or up to two 5/50W transmitters
- Remotely controllable and programmable
- Built-in alarms and diagnostics



TB9100

ITEM CODE	DESCRIPTION
TBA3001-1100	TB8000/9000 Power Management Unit DC12 aux12
TBA3001-1200	TB8000/9000 Power Management Unit DC12 aux24
TBA3001-1400	TB8000/9000 Power Management Unit DC12 aux48
TBA3002-2100	TB8000/9000 Power Management Unit DC24 aux12
TBA3002-2200	TB8000/9000 Power Management Unit DC24 aux24
TBA3002-2400	TB8000/9000 Power Management Unit DC24 aux48
TBA3004-4100	TB8000/9000 Power Management Unit DC48 aux12
TBA3004-4200	TB8000/9000 Power Management Unit DC48 aux24
TBA3004-4400	TB8000/9000 Power Management Unit DC48 aux48

SPARES OPTIONS & ACCESSORIES

Power Management Units (PMU) - ACDC

Standard Package Includes:

- Seamless and automatic switching from AC to DC
- AC operates 88 to 264V input with power factor correction
- DC operates from 12, 24 or 48VDC supply
- DC input supply can be negatively or positively earthed
- Sufficient output power to drive 1 x 100W transmitter or up to two 5/50W transmitters
- Remotely controllable and programmable
- Built-in alarms and diagnostics



TB9100

ITEM CODE	DESCRIPTION
TBA30A1-1100	TB8000/9000 Power Management Unit ACDC12 aux12
TBA30A1-1200	TB8000/9000 Power Management Unit ACDC12 aux24
TBA30A1-1400	TB8000/9000 Power Management Unit ACDC12 aux48
TBA30A2-2100	TB8000/9000 Power Management Unit ACDC24 aux12
TBA30A2-2200	TB8000/9000 Power Management Unit ACDC24 aux24
TBA30A2-2400	TB8000/9000 Power Management Unit ACDC24 aux48
TBA30A4-4100	TB8000/9000 Power Management Unit ACDC48 aux12
TBA30A4-4200	TB8000/9000 Power Management Unit ACDC48 aux24
TBA30A4-4400	TB8000/9000 Power Management Unit ACDC48 aux48

SPARES OPTIONS & ACCESSORIES TB9100

Power Management Unit (PMU) - Option Boards

Note: These provide a DC output to power auxiliary equipment.

ITEM CODE	DESCRIPTION
TBA-SP-WDA1	TB81/91/93 Spare PMU Auxiliary Supply 12VDC 40W
TBA-SP-WDA2	TB81/91/93 Spare PMU Auxiliary Supply 24VDC 40W
TBA-SP-WDA4	TB81/91/93 Spare PMU Auxiliary Supply 48VDC 40W

SPARES OPTIONS & ACCESSORIES TB9100

Accessories

ITEM CODE	DESCRIPTION
Microphone	
T02-00005-AAAC	TM Standard Microphone L3Harris
Adaptor Front Panel	
TBA60C0	TB9100 Adaptor Front Panel 1U RJ45
Coaxial Relay Assembly	
TBAA03-15	TB9100 Relay Coax Assembly Fit with Single Mounting Bracket
Programming Accessories	
TBA0P20	TB9100 Crossover & Audio Cables
Power Cords	
T952-310	Mains Power Lead ANZ-IEC
T952-320	Mains Power Lead UK-IEC
T952-330	Mains Power Lead EUR-IEC
T952-340	Mains Power Lead US/CAN IEC
Support Brackets	
TBAA03-13	TB8000/9000 Auxiliary Support Bracket
Handles	
TBAA03-16	TB8000/9000 Carrying Handles Note: Can only be used with restriction of hazardous substances (RoHS) compliant (silver/blue) subracks
Cabinets	
T-C08U19L-00	Cabinet 8U Black 19" 600x600mm with Front & Rear Doors
T-C12U19L-00	Cabinet 12U Black 19" 600x600mm with Front & Rear Doors
T-C25U19L-00	Cabinet 25U Black 19" 600x600mm with Front & Rear Doors
T-C38U19L-00	Cabinet 38U Black 19" 600x600mm with Front & Rear Doors
T-C45U19L-00	Cabinet 45U Black 19" 600x600mm with Front & Rear Doors

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TB9100

SPARES OPTIONS & ACCESSORIES

Service Accessories

Calibration test unit:

- The calibration test unit is required when using the service kit to access the reciter when it is not in the subrack
- It is required for system re-tuning and extremely useful for system test and run-up, especially when commissioning new configuration and running radio diagnostics
- Supplied with cables for use with the TB7100, TB8100 and TB9100

Tool kit includes:

- Control panel board remover
- ► Torx-driver T8
- Torx-driver T10
- ► Torx-driver T20
- Screwdriver PZD-2
- Screwdriver medium flat blade
- Tuning tool cer 2.2mm
- Tuning tool 5CCE
- Tuning tool Johanson 8777
- Spanner 5/16
- Socket head M3 nuts
- Tool bag



ITEM CODE	DESCRIPTION
TBA0STU	Base Station Calibration Test Unit & Cable
TBA0ST2	Base Station Tool Kit



TB9100

All prices are subject to the then current L3Harris Corporation Communications System Domestic Standard Conditions of Sale and are subject to change without notice.

Master Price List (USD)

Company Proprietary and Confidential

P25 Digital Base Station - TB9100

E/C	Item Code	Description	List Price
	Conventional System Interface (SIF)		
;	TB9115B2DP0000A400	Rptr 136-156M 5W AC/12 conv SIF	\$ 8,244.
;	TB9115B2DP0000C000	Rptr 136-156M 5W DC12/12 conv SIF	\$ 8,231.
;	TB9115B2DP0000J400	Rptr 136-156M 5W ACDC12/12 conv SIF	\$ 8,856.
	TB9115B2HP0000A400	Rptr 136-156M 50W AC/12 conv SIF	\$ 9,033.
	TB9115B2HP0000C000	Rptr 136-156M 50W DC12/12 conv SIF	\$ 9,020.
	TB9115B2HP0000J400	Rptr 136-156M 50W ACDC12/12 conv SIF	\$ 9,645.
	TB9135B2MP0000A400	Rptr 136-156M 100W AC/12 conv SIF	\$ 9,794.
	TB9135B2MP0000C000	Rptr 136-156M 100W DC12/12 conv SIF	\$ 9,781.
	TB9135B2MP0000J400	Rptr 136-156M 100W ACDC12/12 conv SIF	\$ 10,406.
	TB9115B3DP0000A400	Rptr 148-174M 5W AC/12 conv SIF	\$ 8,244.
	TB9115B3DP0000C000	Rptr 148-174M 5W DC12/12 conv SIF	\$ 8,231.
	TB9115B3DP0000J400	Rptr 148-174M 5W ACDC12/12 conv SIF	\$ 8,856.
	TB9115B3HP0000A400	Rptr 148-174M 50W AC/12 conv SIF	\$ 9,033.
	TB9115B3HP0000C000	Rptr 148-174M 50W DC12/12 conv SIF	\$ 9,020
	TB9115B3HP0000J400	Rptr 148-174M 50W ACDC12/12 conv SIF	\$ 9,645
	TB9135B3MP0000A400	Rptr 148-174M 100W AC/12 conv SIF	\$ 9,794
	TB9135B3MP0000C000	Rptr 148-174M 100W DC12/12 conv SIF	\$ 9,781
	TB9135B3MP0000J400	Rptr 148-174M 100W ACDC12/12 conv SIF	\$ 10,406.
	Encrypted System Interface (SIF)		A . 0.011
	TB9115B2DE0000A400	Rptr 136-156M 5W AC/12 Enc SIF	\$ 8,244
	TB9115B2DE0000C000	Rptr 136-156M 5W DC12/12 Enc SIF	\$ 8,231
	TB9115B2DE0000J400	Rptr 136-156M 5W ACDC12/12 Enc SIF	\$ 8,856
	TB9115B2HE0000A400	Rptr 136-156M 50W AC/12 Enc SIF	\$ 9,033
	TB9115B2HE0000C000	Rptr 136-156M 50W DC12/12 Enc SIF	\$ 9,020
	TB9115B2HE0000J400	Rptr 136-156M 50W ACDC12/12 Enc SIF	\$ 9,645
	TB9135B2ME0000A400	Rptr 136-156M 100W AC/12 Enc SIF	\$ 9,794
	TB9135B2ME0000C000	Rptr 136-156M 100W DC12/12 Enc SIF	\$ 9,781
	TB9135B2ME0000J400	Rptr 136-156M 100W ACDC12/12 Enc SIF	\$ 10,406
	TB9115B3DE0000A400	Rptr 148-174M 5W AC/12 Enc SIF	\$ 8,244
	TB9115B3DE0000C000	Rptr 148-174M 5W DC12/12 Enc SIF	\$ 8,231
	TB9115B3DE0000J400	Rptr 148-174M 5W ACDC12/12 Enc SIF	\$ 8,856
	TB9115B3HE0000A400	Rptr 148-174M 50W AC/12 Enc SIF	\$ 9,033
	TB9115B3HE0000C000	Rptr 148-174M 50W DC12/12 Enc SIF	\$ 9,020
	TB9115B3HE0000J400	Rptr 148-174M 50W ACDC12/12 Enc SIF	\$ 9,645
	TB9135B3ME0000A400	Rptr 148-174M 100W AC/12 Enc SIF	\$ 9,794
	TB9135B3ME0000C000	Rptr 148-174M 100W DC12/12 Enc SIF	\$ 9,781
	TB9135B3ME0000J400	Rptr 148-174M 100W ACDC12/12 Enc SIF	\$ 10,406

s	Trunking System Interface (SIF)		
	TB9115B2DT0000A400	Rptr 136-156M 5W AC/12 trk SIF	\$ 8,244.0
	TB9115B2DT0000C000	Rptr 136-156M 5W DC12/12 trk SIF	\$ 8,231.0
	TB9115B2DT0000J400	Rptr 136-156M 5W ACDC12/12 trk SIF	\$ 8,856.0
	TB9115B2HT0000A400	Rptr 136-156M 50W AC/12 trk SIF	\$ 9,033.0
	TB9115B2HT0000C000	Rptr 136-156M 50W DC12/12 trk SIF	\$ 9,020.0
	TB9115B2HT0000J400	Rptr 136-156M 50W ACDC12/12 trk SIF	\$ 9,645.0
	TB9135B2MT0000A400	Rptr 136-156M 100W AC/12 trk SIF	\$ 9,794.0
	TB9135B2MT0000C000	Rptr 136-156M 100W DC12/12 trk SIF	\$ 9,781.0
	TB9135B2MT0000J400	Rptr 136-156M 100W ACDC12/12 trk	\$ 10,406.0
	TB9115B3DT0000A400	Rptr 148-174M 5W AC/12 trk SIF	\$ 8,244.0
	TB9115B3DT0000C000 TB9115B3DT0000J400	Rptr 148-174M 5W DC12/12 trk SIF	\$ 8,231.0 \$ 8,856.0
	189113830100003400	Rptr 148-174M 5W ACDC12/12 trk SIF	\$ 0,000.0
	TB9115B3HT0000A400	Rptr 148-174M 50W AC/12 trk SIF	\$ 9,033.0
	TB9115B3HT0000C000	Rptr 148-174M 50W DC12/12 trk SIF	\$ 9,020.0
	TB9115B3HT0000J400	Rptr 148-174M 50W ACDC12/12 trk	\$ 9,645.0
	TD0405D04700004400		A 0 704 0
	TB9135B3MT0000A400	Rptr 148-174M 100W AC/12 trk SIF	\$ 9,794.0
	TB9135B3MT0000C000	Rptr 148-174M 100W DC12/12 trk SIF	\$ 9,781.0
R	TB9135B3MT0000J400	Rptr 148-174M 100W ACDC12/12 trk J - (NO Software License Included)	\$ 10,406.0
		Description	List Price
	Conventional System Interface (S		
	TB9115H1DP0000A400	Rptr 400-440M 5W AC/12 conv SIF	\$ 8,244.0
	TB9115H1DP0000C000	Rptr 400-440M 5W DC12/12 conv SIF	\$ 8,231.0
	TB9115H1DP0000J400	Rptr 400-440M 5W ACDC12/12 conv SIF	\$ 8,856.0
	TB9115H1HP0000A400	Rptr 400-440M 50W AC/12 conv SIF	\$ 9.033.0
	TB9115H1HP0000C000	Rptr 400-440M 50W DC12/12 conv SIF	\$ 9.020.0
	TB9115H1HP0000J400	Rptr 400-440M 50W ACDC12/12 conv SIF	\$ 9,645.0
	TB9135H1MP0000A400	Rptr 400-440M 100W AC/12 conv SIF	\$ 9,794.0
	TB9135H1MP0000C000 TB9135H1MP0000J400	Rptr 400-440M 100W DC12/12 conv SIF Rptr 400-440M 100W ACDC12/12 conv	\$ 9,781.0 \$ 10,406.0
	109133111010003400		\$ 10,400.0
	TB9115H2DP0000A400	Rptr 440-480M 5W AC/12 conv SIF	\$ 8,244.0
	TB9115H2DP0000C000	Rptr 440-480M 5W DC12/12 conv SIF	\$ 8,231.0
	TB9115H2DP0000J400	Rptr 440-480M 5W ACDC12/12 conv SIF	\$ 8,856.0
	TB9115H2HP0000A400	Rptr 440-480M 50W AC/12 conv SIF	\$ 9,033.0
	TB9115H2HP0000C000	Rptr 440-480M 50W DC12/12 conv SIF	\$ 9,020.0
	TB9115H2HP0000J400	Rptr 440-480M 50W ACDC12/12 conv SIF	\$ 9,645.0
	TB9135H2MP0000A400	Rptr 440-480M 100W AC/12 conv SIF	\$ 9,794.0
	TB9135H2MP0000C000	Rptr 440-480M 100W DC12/12 conv SIF	\$ 9,781.0
	TB9135H2MP0000J400	Rptr 440-480M 100W ACDC12/12 conv	\$ 10,406.0
	TB9115H3DP0000A400	Rptr 470-520M 5W AC/12 conv SIF	\$ 8,244.0
	TB9115H3DP0000C000	Rptr 470-520M 5W DC12/12 conv SIF	\$ 8,231.0
	TB9115H3DP0000J400	Rptr 470-520M 5W ACDC12/12 conv SIF	\$ 8,856.0
	TD0445U2UD000004400	Date 470 FOOM FOW A CI40 as an OFF	é 0.000 0
	TB9115H3HP0000A400	Rptr 470-520M 50W AC/12 conv SIF	\$ 9,033.0
	TB9115H3HP0000C000 TB9115H3HP0000J400	Rptr 470-520M 50W DC12/12 conv SIF Rptr 470-520M 50W ACDC12/12 conv SIF	\$ 9,020.0 \$ 9,645.0
	TB9135H3MP0000A400	Rptr 470-520M 100W AC/12 conv SIF	\$ 9,794.0
	TB9135H3MP0000C000	Rptr 470-520M 100W DC12/12 conv SIF	\$ 9,781.0
	TB9135H3MP0000J400	Rptr 470-520M 100W ACDC12/12 conv	\$ 10,406.0
	TB9115H4DP0000A400	Rptr 380-420M 5W AC/12 conv SIF	\$ 8,244.0
	TB9115H4DP0000C000	Rptr 380-420M 5W DC12/12 conv SIF	\$ 8,231.0
	TB9115H4DP0000J400	Rptr 380-420M 5W ACDC12/12 conv SIF	\$ 8,856.0
	TB9115H4HP0000A400	P25 Anig 380-420M 50W D9 Std AC/12	\$ 9,033.0
	TB9115H4HP0000C000 TB9115H4HP0000J400	P25 Anlg 380-420M 50W D9 Std DC/12 P25 Anlg 380-420M 50W D9 Std ACDC/12	\$ 9,020.0 \$ 9,645.0
			φ 3,043.0
	TB9135H4MP0000A400	Rptr 380-420M 100W AC/12 conv SIF	\$ 9,794.0
	TB9135H4MP0000C000	Rptr 380-420M 100W DC12/12 conv SIF	\$ 9,781.0
	TB9135H4MP0000J400	Rptr 380-420M 100W ACDC12/12 conv	\$ 10,406.0

	Encrypted System Interface (SIF)		
s	TB9115H1DE0000A400	Rptr 400-440M 5W AC/12 Enc SIF	\$ 8,244.00
s	TB9115H1DE0000C000	Rptr 400-440M 5W DC12/12 Enc SIF	\$ 8,231.00
S	TB9115H1DE0000J400	Rptr 400-440M 5W ACDC12/12 Enc SIF	\$ 8,856.00
s	TB9115H1HE0000A400	Rptr 400-440M 50W AC/12 Enc SIF	\$ 9,033.00
s	TB9115H1HE0000C000	Rptr 400-440M 50W DC12/12 Enc SIF	\$ 9,020.00
S	TB9115H1HE0000J400	Rptr 400-440M 50W ACDC12/12 Enc SIF	\$ 9,645.00
s	TB9135H1ME0000A400	Rptr 400-440M 100W AC/12 Enc SIF	\$ 9,794.00
s	TB9135H1ME0000C000	Rptr 400-440M 100W DC12/12 Enc SIF	\$ 9,781.00
S	TB9135H1ME0000J400	Rptr 400-440M 100W ACDC12/12 Enc SIF	\$ 10,406.00
S	TB9115H2DE0000A400	Rptr 440-480M 5W AC/12 Enc SIF	\$ 8,244.00
S S	TB9115H2DE0000C000	Rptr 440-480M 5W DC12/12 Enc SIF	\$ 8,231.00
3	TB9115H2DE0000J400	Rptr 440-480M 5W ACDC12/12 Enc SIF	\$ 8,856.00
s	TB9115H2HE0000A400	Rptr 440-480M 50W AC/12 Enc SIF	\$ 9,033.00
s	TB9115H2HE0000C000	Rptr 440-480M 50W DC12/12 Enc SIF	\$ 9,020.00
S	TB9115H2HE0000J400	Rptr 440-480M 50W ACDC12/12 Enc SIF	\$ 9,645.00
S	TB9135H2ME0000A400	Rptr 440-480M 100W AC/12 Enc SIF	\$ 9,794.00
S	TB9135H2ME0000C000	Rptr 440-480M 100W DC12/12 Enc SIF	\$ 9,781.00
S	TB9135H2ME0000J400	Rptr 440-480M 100W ACDC12/12 Enc SIF	\$ 10,406.00
S	TD0445H2DE00004400	Dester 470 500M SIM A C/42 End OFF	¢ 0.044.00
s S	TB9115H3DE0000A400	Rptr 470-520M 5W AC/12 Enc SIF Rptr 470-520M 5W DC12/12 Enc SIF	\$ 8,244.00
S	TB9115H3DE0000C000 TB9115H3DE0000J400	Rptr 470-520M 5W DC12/12 Enc SIF	\$ 8,231.00 \$ 8,856.00
•	103113113020003400	Rpti 470-520M SW A0D012/12 Elic Sil	\$ 8,850.00
s	TB9115H3HE0000A400	Rptr 470-520M 50W AC/12 Enc SIF	\$ 9,033.00
S	TB9115H3HE0000C000	Rptr 470-520M 50W DC12/12 Enc SIF	\$ 9,020.00
S	TB9115H3HE0000J400	Rptr 470-520M 50W ACDC12/12 Enc SIF	\$ 9,645.00
S	TB9135H3ME0000A400	Rptr 470-520M 100W AC/12 Enc SIF	\$ 9,794.00
S S	TB9135H3ME0000C000	Rptr 470-520M 100W DC12/12 Enc SIF Rptr 470-520M 100W ACDC12/12 Enc SIF	\$ 9,781.00
0	TB9135H3ME0000J400	Rptr 470-520W 100W ACDC12/12 End SIF	\$ 10,406.00
s	TB9115H4DE0000A400	Rptr 380-420M 5W AC/12 Enc SIF	\$ 8,244.00
S	TB9115H4DE0000C000	Rptr 380-420M 5W DC12/12 Enc SIF	\$ 8,231.00
s	TB9115H4DE0000J400	Rptr 380-420M 5W ACDC12/12 Enc SIF	\$ 8,856.00
S	TB9115H4HE0000A400	Rptr 380-420M 50W AC/12 Enc SIF	\$ 9,033.00
S	TB9115H4HE0000C000	Rptr 380-420M 50W DC12/12 Enc SIF	\$ 9,020.00
S	TB9115H4HE0000J400	Rptr 380-420M 50W ACDC12/12 Enc SIF	\$ 9,645.00
_			
S	TB9135H4ME0000A400	Rptr 380-420M 100W AC/12 Enc SIF	\$ 9,794.00
S	TB9135H4ME0000C000	Rptr 380-420M 100W DC12/12 Enc SIF	\$ 9,781.00
S	TB9135H4ME0000J400 Trunking System Interface (SIF)	Rptr 380-420M 100W ACDC12/12 Enc SIF	\$ 10,406.00
s	TB9115H1DT0000A400	Rptr 400-440M 5W AC/12 trk SIF	\$ 8,244.00
s	TB9115H1DT0000C000	Rptr 400-440M 5W DC12/12 trk SIF	\$ 8,231.00
s	TB9115H1DT0000J400	Rptr 400-440M 5W ACDC12/12 trk SIF	\$ 8,856.00
S	TB9115H1HT0000A400	Rptr 400-440M 50W AC/12 trk SIF	\$ 9,033.00
S	TB9115H1HT0000C000	Rptr 400-440M 50W DC12/12 trk SIF	\$ 9,020.00
S	TB9115H1HT0000J400	Rptr 400-440M 50W ACDC12/12 trk	\$ 9,645.00
~			
S	TB9135H1MT0000A400	Rptr 400-440M 100W AC/12 trk SIF	\$ 9,794.00
S	TB9135H1MT0000C000	Rptr 400-440M 100W DC12/12 trk SIF	\$ 9,781.00
S	TB9135H1MT0000J400	Rptr 400-440M 100W ACDC12/12 trk	\$ 10,406.00
s	TB9115H2DT0000A400	P25 Anlg 440-480M 5W D9 Bal AC/12	\$ 8,244.00
s	TB9115H2DT0000C000	P25 Anig 440-480M 5W D9 Bal DC/12	\$ 8,231.00
s	TB9115H2DT0000J400	P25 Anlg 440-480M 5W D9 Bal ACDC/12	\$ 8,856.00
S	TB9115H2HT0000A400	Rptr 440-480M 50W AC/12 trk SIF	\$ 9,033.00
S	TB9115H2HT0000C000	Rptr 440-480M 50W DC12/12 trk SIF	\$ 9,020.00
S	TB9115H2HT0000J400	Rptr 440-480M 50W ACDC12/12 trk	\$ 9,645.00

s	TB9135H2MT0000A400	Rptr 440-480M 100W AC/12 trk SIF	\$ 9,794.00
s	TB9135H2MT0000C000	Rptr 440-480M 100W PC/12 trk SiF	\$ 9,781.00
s	TB9135H2MT0000J400	Rptr 440-480M 100W ACDC12/12 trk	\$ 10,406.00
s	12313311211100000400		\$ 10,400.00
s	TB9115H3DT0000A400	Rptr 470-520M 5W AC/12 trk SIF	\$ 8,244.00
s	TB9115H3DT0000C000	Rptr 470-520M 5W DC12/12 trk SIF	\$ 8,231.00
s	TB9115H3DT0000J400	Rptr 470-520M 5W ACDC12/12 trk SIF	\$ 8,856.00
•			\$ 0,000.00
s	TB9115H3HT0000A400	Rptr 470-520M 50W AC/12 trk SIF	\$ 9,033.00
S	TB9115H3HT0000C000	Rptr 470-520M 50W DC12/12 trk SIF	\$ 9,020.00
s	TB9115H3HT0000J400	Rptr 470-520M 50W ACDC12/12 trk	\$ 9,645.00
S	TB9135H3MT0000A400	Rptr 470-520M 100W AC/12 trk SIF	\$ 9,794.00
S	TB9135H3MT0000C000	Rptr 470-520M 100W DC12/12 trk SIF	\$ 9,781.00
s	TB9135H3MT0000J400	Rptr 470-520M 100W ACDC12/12 trk	\$ 10,406.00
s	TB9115H4DT0000A400	Rptr 380-420M 5W AC/12 trk SIF	\$ 8,244.00
S			
S	TB9115H4DT0000C000	Rptr 380-420M 5W DC12/12 trk SIF	\$ 8,231.00
э	TB9115H4DT0000J400	Rptr 380-420M 5W ACDC12/12 trk SIF	\$ 8,856.00
s	TB9115H4HT0000A400	Rptr 380-420M 50W AC/12 trk SIF	\$ 9,033.00
S	TB9115H4HT0000C000	Rptr 380-420M 50W DC12/12 trk SIF	\$ 9,020.00
s	TB9115H4HT0000J400	Rptr 380-420M 50W ACDC12/12 trk	\$ 9,645.00
S	TB9135H4MT0000A400	Rptr 380-420M 100W AC/12 trk SIF	\$ 9,794.00
S	TB9135H4MT0000C000	Rptr 380-420M 100W DC12/12 trk SIF	\$ 9,781.00
S	TB9135H4MT0000J400	Rptr 380-420M 100W ACDC12/12 trk	\$ 10,406.00
TBS	0100 Single 700/800MHz w	ith PMU (NO Software License Included)	
E/C	Item Code	Description	List Price
L/0			
	Conventional System Interface (S		
s	Conventional System Interface (S TB9115K4DP0000A400	Rptr 762-870M 5W AC/12 conv SIF	\$ 8,244.00
S S			\$ 8,244.00 \$ 8,231.00
s	TB9115K4DP0000A400	Rptr 762-870M 5W AC/12 conv SIF	
S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000J400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF	\$ 8,231.00 \$ 8,856.00
S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000J400 TB9115K4HP0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00
S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000J400 TB9115K4HP0000A400 TB9115K4HP0000C000	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W DC12/12 conv SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00
S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000J400 TB9115K4HP0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00
S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000J400 TB9115K4HP0000A400 TB9115K4HP0000C000 TB9115K4HP0000J400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W DC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00
S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000J400 TB9115K4HP0000A400 TB9115K4HP0000C000 TB9115K4HP0000J400 TB9135K4MP0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00
S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000A400 TB9115K4HP0000C000 TB9115K4HP0000C000 TB9115K4HP0000J400 TB9115K4HP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,781.00
S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000J400 TB9115K4HP0000A400 TB9115K4HP0000C000 TB9115K4HP0000J400 TB9135K4MP0000A400 TB9135K4MP0000C000 TB9135K4MP0000J400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W AC/12/12 conv SIF Rptr 762-870M 100W AC/12/12 conv SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00
S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000J400 TB9115K4HP0000A400 TB9115K4HP0000C000 TB9115K4HP0000J400 TB9135K4MP0000A400 TB9135K4MP0000C000 TB9135K4MP0000C000 TB9135K4MP0000C000 TB9135K4MP0000C000 TB9135K4MP0000J400 Encrypted System Interface (SIF	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,781.00 \$ 10,406.00
S S S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000J400 TB9115K4HP0000A400 TB9115K4HP0000C000 TB9115K4HP0000J400 TB9135K4MP0000A400 TB9135K4MP0000C000 TB9135K4MP0000A400 TB9135K4MP0000C000 TB9135K4MP0000C000 TB9135K4MP0000C000 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,781.00 \$ 10,406.00 \$ 8,244.00
S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000J400 TB9115K4HP0000A400 TB9115K4HP0000C000 TB9115K4HP0000J400 TB9135K4MP0000A400 TB9135K4MP0000C000 TB9135K4MP0000C000 TB9135K4MP0000C000 TB9135K4MP0000C000 TB9135K4MP0000J400 Encrypted System Interface (SIF	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,794.00 \$ 9,781.00 \$ 10,406.00 \$ 8,244.00 \$ 8,231.00
S S S S S S S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000J400 TB9115K4HP0000A400 TB9115K4HP0000C000 TB9135K4MP0000A400 TB9115K4DE0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 50W AC/12 Enc SIF Rptr 762-870M 50W DC12/12 Enc SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,794.00 \$ 9,781.00 \$ 10,406.00 \$ 8,244.00 \$ 8,231.00
S S S S S S S S S S S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000J400 TB9115K4HP0000A400 TB9115K4HP0000C000 TB9135K4MP0000A400 TB9115K4DE0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 50W AC/12 Enc SIF Rptr 762-870M 50W DC12/12 Enc SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,781.00
S S S S S S S S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4DE000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 5W AC/12 Enc SIF Rptr 762-870M 5W ACDC12/12 Enc SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,03.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,794.00 \$ 9,781.00 \$ 10,406.00 \$ 8,244.00 \$ 8,241.00 \$ 8,243.00 \$ 8,856.00 \$ 9,033.00
S S S S S S S S S S S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000J400 TB9115K4HP0000A400 TB9115K4HP0000J400 TB9135K4MP0000A400 TB9135K4MP0000C000 TB9135K4MP0000J400 Encrypted System Interface (SIF TB9115K4DE0000A400 TB9115K4DE0000A400 TB9115K4DE0000A400 TB9115K4DE0000A400 TB9115K4DE0000A400 TB9115K4DE0000A400 TB9115K4DE0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 5W AC/12 Enc SIF Rptr 762-870M 5W ACDC12/12 Enc SIF Rptr 762-870M 50W ACDC12/12 Enc SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,794.00 \$ 9,781.00 \$ 10,406.00 \$ 8,244.00 \$ 8,243.00 \$ 8,243.00 \$ 8,265.00 \$ 9,033.00 \$ 9,033.00 \$ 9,020.00 \$ 9,020.00
S S S S S S S S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9115K4DE000A400 TB9115K4DE0000A400 TB9115K4DE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 50W AC/12 Enc SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,794.00 \$ 9,781.00 \$ 10,406.00 \$ 8,231.00 \$ 8,234.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,020.00 \$ 9,645.00
S S S S S S S S S S S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 5W AC/12 lac SIF Rptr 762-870M 5W AC/12 lac SIF Rptr 762-870M 50W AC/12 lac SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,794.00 \$ 9,781.00 \$ 10,406.00 \$ 8,244.00 \$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00
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S S S S S S S S S S S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9115K4DE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 5W AC/12 lac SIF Rptr 762-870M 5W AC/12 lac SIF Rptr 762-870M 50W AC/12 lac SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,032.00 \$ 9,042.00 \$ 9,794.00 \$ 9,794.00 \$ 10,406.00 \$ 10,406.00 \$ 8,244.00 \$ 8,244.00 \$ 8,231.00 \$ 8,243.00 \$ 9,033.00 \$ 9,033.00 \$ 9,032.00 \$ 9,045.00 \$ 9,794.00 \$ 9,022.00 \$ 9,645.00 \$ 9,022.00 \$ 9,022.00 \$ 9,022.00 \$ 9,022.00 \$ 9,022.00 \$ 9,022.00 \$ 9,022.00 \$ 9,022.00 \$ 9,784.00 \$ 9,022.00 \$ 9,022.00 \$ 9,784.00 \$ 9,022.00 \$ 9,022.00 \$ 9,784.00 \$ 9,022.00 \$ 9,022.00 \$ 9,784.00 \$ 9,022.00 \$ 9,784.00 \$ 9,784.00 \$ 9,022.00 \$ 9,022.00 \$ 9,022.00 \$ 9,024.00 \$ 9,784.00 \$ 9,
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S S S S S S S S S S S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9115K4ME0000A400 TB9115K4ME0000A400 TB9115K4ME000A400 TB9135K4ME000A400 TB9135K4ME000A400 TB9135K4ME000A400 TB9135K4ME000A400 TB9135K4ME000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 lnc SIF Rptr 762-870M 50W AC/12 Enc SIF Rptr 762-870M 100W AC/12 Enc SIF Rptr	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,794.00 \$ 9,781.00 \$ 10,406.00 \$ 8,856.00 \$ 9,033.00 \$ 9,033.00 \$ 9,033.00 \$ 9,033.00 \$ 9,045.00 \$ 9,784.00 \$ 9,645.00 \$ 9,645.00 \$ 9,784.00 \$ 9,7
S S S S S S S S S S S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9135K4ME0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 5W AC/12 lenc SIF Rptr 762-870M 5W ACDC12/12 Enc SIF Rptr 762-870M 5W ACDC12/12 Enc SIF Rptr 762-870M 50W AC/12 lenc SIF Rptr 762-870M 50W AC/12 lenc SIF Rptr 762-870M 100W AC/12 lenc SIF Rptr 762-870M 5W AC/12 lenc SIF <	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,781.00 \$ 10,406.00 \$ 8,244.00 \$ 8,231.00 \$ 9,033.00 \$ 9,033.00 \$ 9,020.00 \$ 9,045.00 \$ 9,784.00 \$ 9,7
S S S S S S S S S S S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9115K4ME0000A400 TB9115K4ME0000A400 TB9115K4ME000A400 TB9135K4ME000A400 TB9135K4ME000A400 TB9135K4ME000A400 TB9135K4ME000A400 TB9135K4ME000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 lnc SIF Rptr 762-870M 50W AC/12 Enc SIF Rptr 762-870M 100W AC/12 Enc SIF Rptr	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,781.00 \$ 10,406.00 \$ 8,244.00 \$ 8,231.00 \$ 9,033.00 \$ 9,033.00 \$ 9,020.00 \$ 9,033.00 \$ 9,034.00 \$ 9,784.00 \$ 9,7
S S S S S S S S S S S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9135K4ME0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 5W AC/12 lenc SIF Rptr 762-870M 5W ACDC12/12 Enc SIF Rptr 762-870M 5W ACDC12/12 Enc SIF Rptr 762-870M 50W AC/12 lenc SIF Rptr 762-870M 50W AC/12 lenc SIF Rptr 762-870M 100W AC/12 lenc SIF Rptr 762-870M 5W AC/12 lenc SIF <	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 10,406.00 \$ 8,244.00 \$ 8,231.00 \$ 9,033.00 \$ 9,033.00 \$ 9,033.00 \$ 9,045.00 \$ 9,794.00 \$ 9,645.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,645.00 \$ 9,794.00 \$ 9,645.00 \$ 9,645.00 \$ 9,645.00 \$ 9,645.00 \$ 9,645.00 \$ 9,645.00 \$ 9,645.00 \$ 9,645.00 \$ 9,645.00 \$ 9,020.00 \$ 9,645.00 \$ 9,645.00 \$ 9,020.00 \$ 9,645.00 \$ 9,645.00 \$ 9,645.00 \$ 9,645.00 \$ 9,645.00 \$ 9,781.00 \$ 8,856.00 \$ 9,781.00 \$ 9,7
S S S S S S S S S S S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000A400 TB9115K4P0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9115K4DE0000A400 TB9115K4DE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9115K4DT0000A400 TB9115K4DT0000A400 TB9115K4DT0000A400 TB9115K4DT0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 5W AC/12 Enc SIF Rptr 762-870M 5W ACDC12/12 Enc SIF Rptr 762-870M 50W ACDC12/12 Enc SIF Rptr 762-870M 50W ACDC12/12 Enc SIF Rptr 762-870M 50W AC/12 Enc SIF Rptr 762-870M 100W AC/12 Enc SIF Rptr 762-870M 5W AC/12 trk SIF	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,781.00 \$ 8,231.00 \$ 8,234.00 \$ 8,234.00 \$ 9,794.00 \$ 9,794.00 \$ 9,020.00 \$ 9,020.00 \$ 9,045.00 \$ 9,794.00 \$ 9,794.00 \$ 9,784.00 \$ 9,645.00 \$ 9,023.00 \$ 9,033.00 \$ 8,856.00 \$ 9,794.00 \$ 9,784.00 \$ 9,784.00 \$ 9,023.00 \$ 9,023.00 \$ 8,233.00 \$ 9,784.00 \$ 9,784.00 \$ 9,784.00 \$ 9,000 \$ 9
S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000A400 TB9115K4P0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4DE000A400 TB9115K4HE0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 50W AC/12 Enc SIF Rptr 762-870M 100W AC/12 Enc SIF Rptr 762-870M 50W AC/12 trk SIF Rptr 762-870M 50W AC/12 trk SIF Rptr 762-870M	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,794.00 \$ 9,781.00 \$ 8,244.00 \$ 8,231.00 \$ 9,033.00 \$ 9,020.00 \$ 9,794.00 \$ 9,781.00 \$ 9,020.00 \$ 9,02
S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000A400 TB9115K4P0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9115K4DE0000A400 TB9115K4DE0000A400 TB9115K4DE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9115K4DT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 5W AC/12 Enc SIF Rptr 762-870M 5W AC/12 Enc SIF Rptr 762-870M 50W AC/12 Enc SIF Rptr 762-870M 50W AC/12 Enc SIF Rptr 762-870M 100W AC/12 Enc SIF Rptr 762-870M 5W AC/12 It K SIF Rptr 762-870M 50W AC/12 It K SIF Rptr 762-870M 50W AC/12 It K SIF Rptr 762-870M 50W	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,794.00 \$ 10,406.00 \$ 8,244.00 \$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,794.00 \$ 9,645.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,645.00 \$ 9,033.00 \$ 9,020.00 \$ 9,045.00 \$ 9,033.00 \$ 9,020.00 \$ 9,045.00 \$ 9,0
S S S S	TB9115K4DP0000A400 TB9115K4DP000C000 TB9115K4DP0000A400 TB9115K4P0000A400 TB9115K4P0000A400 TB9115K4P0000A400 TB9115K4P0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9115K4DE0000A400 TB9115K4DE0000A400 TB9115K4ME0000A400 TB9115K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9115K4DT0000A400 TB9115K4DT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 50W AC/12 Enc SIF Rptr 762-870M 50W AC/12 Enc SIF Rptr 762-870M 50W AC/12 Enc SIF Rptr 762-870M 100W AC/12 Enc SIF Rptr 762-870M 50W AC/12 Inc SIF Rptr 762-870	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,033.00 \$ 9,020.00 \$ 9,794.00 \$ 9,794.00 \$ 10,406.00 \$ 10,406.00 \$ 8,244.00 \$ 8,231.00 \$ 9,033.00 \$ 9,020.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,033.00 \$ 9,033.00 \$ 9,045.00 \$ 9,074.00 \$ 9,
SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	TB9115K4DP0000A400 TB9115K4DP0000C000 TB9115K4DP0000A400 TB9115K4P0000A400 TB9115K4HP0000A400 TB9115K4HP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9135K4MP0000A400 TB9115K4DE0000A400 TB9115K4DE0000A400 TB9115K4DE0000A400 TB9115K4HE0000A400 TB9115K4HE0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9135K4ME0000A400 TB9115K4DT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400 TB9115K4HT0000A400	Rptr 762-870M 5W AC/12 conv SIF Rptr 762-870M 5W DC12/12 conv SIF Rptr 762-870M 5W ACDC12/12 conv SIF Rptr 762-870M 50W AC/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 50W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W ACDC12/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 100W AC/12 conv SIF Rptr 762-870M 5W AC/12 Enc SIF Rptr 762-870M 5W AC/12 Enc SIF Rptr 762-870M 50W AC/12 Enc SIF Rptr 762-870M 50W AC/12 Enc SIF Rptr 762-870M 100W AC/12 Enc SIF Rptr 762-870M 5W AC/12 It K SIF Rptr 762-870M 50W AC/12 It K SIF Rptr 762-870M 50W AC/12 It K SIF Rptr 762-870M 50W	\$ 8,231.00 \$ 8,856.00 \$ 9,033.00 \$ 9,020.00 \$ 9,645.00 \$ 9,794.00 \$ 9,794.00 \$ 10,406.00 \$ 8,244.00 \$ 8,244.00 \$ 8,231.00 \$ 9,033.00 \$ 9,020.00 \$ 9,794.00 \$ 9,020.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,020.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,020.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,020.00 \$ 9,794.00 \$ 9,794.00 \$ 9,794.00 \$ 9,645.00 \$ 9,020.00 \$ 9,020.00 \$ 9,020.00 \$ 9,045.00 \$ 9,0

TB9100 Dual VHF with PMU (NO Software License Included)

E/C	ured part number. Item Code	Description	Liet Duine
:/C	Conventional System Interface (SIF	Description	List Price
	TB9115B2DPB2DPA400	Rptr 136-156M D5/5W AC/12 conv SIF	\$ 13,372.0
	TB9115B2DPB2DPC000	Rptr 136-156M D5/5W DC12/12 conv SIF	\$ 13,359.0
	TB9115B2DPB2DPJ400	Rptr 136-156M D5/5W ACDC12/12 conv	\$ 13,984.0
			+ 10,00
	TB9115B2HPB2HPA400	Rptr 136-156M D50/50W AC/12 conv SIF	\$ 14,950.0
	TB9115B2HPB2HPC000	Rptr 136-156M D50/50W DC12/12 conv SIF	\$ 14,937.0
	TB9115B2HPB2HPJ400	Rptr 136-156M D50/50W ACDC12/12 conv	\$ 15,562.0
	TB9115B2DPB2HPA400	Rptr 136-156M D5/50W AC/12 conv SIF	\$ 14,161.0
	TB9115B2DPB2HPC000	Rptr 136-156M D5/50W AC/12 conv SIF	\$ 14,161.0
	TB9115B2DPB2HPJ400	Rptr 136-156M D5/50W ACDC12/12 conv	\$ 14,773.0
	TB9115B3DPB3DPA400	Rptr 148-174M D5/5W AC/12 conv SIF	\$ 13,372.0
	TB9115B3DPB3DPC000	Rptr 148-174M D5/5W DC12/12 conv SIF	\$ 13,359.0
	TB9115B3DPB3DPJ400	Rptr 148-174M D5/5W ACDC12/12 conv	\$ 13,984.0
	TB9115B3HPB3HPA400	Rptr 148-174M D50/50W AC/12 conv SIF	\$ 14,950.0
	TB9115B3HPB3HPC000	Rptr 148-174M D50/50W DC12/12 conv SIF	\$ 14,937.0
	TB9115B3HPB3HPJ400	Rptr 148-174M D50/50W ACDC12/12 conv	\$ 15,562.0
			+,
	TB9115B3DPB3HPA400	Rptr 148-174M D5/50W AC/12 conv SIF	\$ 14,161.0
	TB9115B3DPB3HPC000	Rptr 148-174M D5/50W DC12/12 conv SIF	\$ 14,148.0
	TB9115B3DPB3HPJ400	Rptr 148-174M D5/50W ACDC12/12 conv	\$ 14,773.0
_			
	Encrypted System Interface (SIF) TB9115B2DEB2DEA400	Rptr 136-156M D5/5W AC/12 Enc SIF	\$ 13,372.0
	TB9115B2DEB2DEC000	Rptr 136-156M D5/5W DC12/12 Enc SIF	\$ 13,359.0
	TB9115B2DEB2DEJ400	Rptr 136-156M D5/5W ACDC12/12 Enc SIF	\$ 13,984.0
	155115525252526400		\$ 10,004.0
	TB9115B3DEB3DEA400	Rptr 148-174M D5/5W AC/12 Enc SIF	\$ 13,372.0
	TB9115B3DEB3DEC000	Rptr 148-174M D5/5W DC12/12 Enc SIF	\$ 13,359.0
	TB9115B3DEB3DEJ400	Rptr 148-174M D5/5W ACDC12/12 Enc SIF	\$ 13,984.0
			0.44.404.0
	TB9115B2DEB2HEA400	Rptr 136-156M D5/50W AC/12 Enc SIF	\$ 14,161.0
	TB9115B2DEB2HEC000 TB9115B2DEB2HEJ400	Rptr 136-156M D5/50W DC12/12 Enc SIF Rptr 136-156M D5/50W ACDC12/12 Enc SIF	\$ 14,148.0 \$ 14,773.0
	TBSTTSB2BEB2TE0400		ψ 14,775.0
	TB9115B3HEB3HEA400	Rptr 148-174M D50/50W AC/12 Enc SIF	\$ 14,950.0
	TB9115B3HEB3HEC000	Rptr 148-174M D50/50W DC12/12 Enc SIF	\$ 14,937.0
	TB9115B3HEB3HEJ400	Rptr 148-174M D50/50W ACDC12/12 Enc	\$ 15,562.0
			¢ 44.404.0
	TB9115B3DEB3HEA400 TB9115B3DEB3HEC000	Rptr 148-174M D5/50W AC/12 Enc SIF Rptr 148-174M D5/50W DC12/12 Enc SIF	\$ 14,161.0 \$ 14,148.0
	TB9115B3DEB3HEJ400	Rptr 148-174M D5/50W ACDC12/12 Enc SIF	
_	Trunking System Interface (SIF)	Rptr 148-174W D5/50W ACDC12/12 End SIP	\$ 14,773.0
	TB9115B2DTB2DTA400	Rptr 136-156M D5/5W AC/12 Trk SIF	\$ 13.372.0
	TB9115B2DTB2DTC000	Rptr 136-156M D5/5W DC12/12 Trk SIF	\$ 13,359.0
	TB9115B2DTB2HTJ400	Rptr 136-156M D5/50W ACDC12/12 trk	\$ 14,773.0
	TB9115B2DTB2DTJ400	Rptr 136-156M D5/5W ACDC12/12 trk SIF	\$ 13,984.0
	TB9115B2HTB2HTA400	Rptr 136-156M D50/50W AC/12 trk SIF	\$ 14,950.0
	TB9115B2HTB2HTC000	Rptr 136-156M D50/50W DC12/12 trk SIF	\$ 14,937.0
	TB9115B2HTB2HTJ400	Rptr 136-156M D50/50W ACDC12/12 trk	\$ 15,562.0
	TB9115B2DTB2HTA400	Rptr 136-156M D5/50W AC/12 trk SIF	\$ 14,161.0
	TB9115B2DTB2HTC000	Rptr 136-156M D5/50W DC12/12 trk SIF	\$ 14,148.0
			¢ 1.,1.00
	TB9115B3DTB3DTA400	Rptr 148-174M D5/5W AC/12 trk SIF	\$ 13,372.0
	TB9115B3DTB3DTC000	Rptr 148-174M D5/5W DC12/12 trk SIF	\$ 13,359.0
	TB9115B3DTB3DTJ400	Rptr 148-174M D5/5W ACDC12/12 Trk SIF	\$ 13,984.0
		Device 4.40, 47,400 DE0/2004/ A 0/40.4 1, 0/5	A 440-00
	TB9115B3HTB3HTA400	Rptr 148-174M D50/50W AC/12 trk SIF	\$ 14,950.0
	TB9115B3HTB3HTC000 TB9115B3HTB3HTJ400	Rptr 148-174M D50/50W DC12/12 trk SIF Rptr 148-174M D50/50W ACDC12/12 trk	\$ 14,937.0 \$ 15,562.0
	1091190301030113400	кра 146-17410 D00/3000 AGDG12/12 trk	ຈ 1ວ,ວ62.0
	TB9115B3DTB3HTA400	Rptr 148-174M D5/50W AC/12 trk SIF	\$ 14,161.0
	TB9115B3DTB3HTC000	Rptr 148-174M D5/50W DC12/12 trk SIF	\$ 14,148.0
	TB9115B3DTB3HTJ400	Rptr 148-174M D5/50W ACDC12/12 trk	\$ 14,773.0

TB9100 Dual UHF with PMU (NO Software License Included)

	onfigured part number.			
E/C	Item Code	Description	List Price	
6	Conventional System Interface (S			
; ;	TB9115H1DPH1DPA400	Rptr 400-440M D5/5W AC/12 conv SIF	\$ 13,372.0	
; ;	TB9115H1DPH1DPC000 TB9115H1DPH1DPJ400	Rptr 400-440M D5/5W DC12/12 conv SIF Rptr 400-440M D5/5W ACDC12/12 conv	\$ 13,359.0	
,	169115H1DPH1DPJ400	หุมเา 400-440M มี5/5W AGDG12/12 CONV	\$ 13,984.0	
;	TB9115H1DPH1HPA400	Rptr 400-440M D5/50W AC/12 conv SIF	\$ 14,161.0	
;	TB9115H1DPH1HPC000	Rptr 400-440M D5/50W AC/12 conv Sil	\$ 14,148.0	
;	TB9115H1DPH1HPJ400	Rptr 400-440M D5/50W ACDC12/12 conv	\$ 14,773.0	
			¢ 14,110.0	
3	TB9115H1HPH1HPA400	Rptr 400-440M D50/50W AC/12 conv SIF	\$ 14,950.0	
5	TB9115H1HPH1HPC000	Rptr 400-440M D50/50W DC12/12 conv SIF	\$ 14,937.0	
3	TB9115H1HPH1HPJ400	Rptr 400-440M D50/50W ACDC12/12 conv	\$ 15,562.0	
3	TB9115H2DPH2DPA400	Rptr 440-480M D5/5W AC/12 conv SIF	\$ 13,372.0	
3	TB9115H2DPH2DPC000	Rptr 440-480M D5/5W DC12/12 conv SIF	\$ 13,359.0	
5	TB9115H2DPH2DPJ400	Rptr 440-480M D5/5W ACDC12/12 conv	\$ 13,984.0	
;	TB9115H2DPH2HPA400	Rptr 440-480M D5/50W AC/12 conv SIF	\$ 14,161.0	
5	TB9115H2DPH2HPC000	Rptr 440-480M D5/50W DC12/12 conv SIF	\$ 14,148.0	
5	TB9115H2DPH2HPJ400	Rptr 440-480M D5/50W ACDC12/12 conv	\$ 14,773.0	
5	TB9115H2HPH2HPA400	Rptr 440-480M D50/50W AC/12 conv SIF	\$ 14,950.0	
, ,	TB9115H2HPH2HPA400 TB9115H2HPH2HPC000	Rptr 440-480M D50/50W AC/12 conv SIF	\$ 14,950.0	
, ,	TB9115H2HPH2HPC000	Rptr 440-480M D50/50W DC12/12 conv SIF	\$ 14,937.0	
•	1591191121171121173400	Npti -++0-+00111 050/30111 AODO12/12 C0114	φ 10,002.U	
s	TB9115H3DPH3DPA400	Rptr 470-520M D5/5W AC/12 conv SIF	\$ 13,372.0	
S	TB9115H3DPH3DPC000	Rptr 470-520M D5/5W DC12/12 conv SIF	\$ 13,359.0	
S	TB9115H3DPH3DPJ400	Rptr 470-520M D5/5W ACDC12/12 conv	\$ 13,984.0	
S	TB9115H3DPH3HPA400	Rptr 470-520M D5/50W AC/12 conv SIF	\$ 14,161.0	
5	TB9115H3DPH3HPC000	Rptr 470-520M D5/50W DC12/12 conv SIF	\$ 14,148.0	
3	TB9115H3DPH3HPJ400	Rptr 470-520M D5/50W ACDC12/12 conv	\$ 14,773.0	
5	TB9115H3HPH3HPA400	Rptr 470-520M D50/50W AC/12 conv SIF	\$ 14,950.0	
S	TB9115H3HPH3HPC000	Rptr 470-520M D50/50W DC12/12 conv SIF	\$ 14,937.0	
s	TB9115H3HPH3HPH000	Rptr 470-520M D50/50W DC48/24 conv SIF	\$ 14,937.0	
s	TB9115H3HPH3HPJ400	Rptr 470-520M D50/50W ACDC12/12 conv	\$ 15,562.0	
	Encrypted System Interface (SIF			
S	TB9115H1DEH1DEA400	Rptr 400-440M D5/5W AC/12 Enc SIF	\$ 13,372.0	
S	TB9115H1DEH1DEC000	Rptr 400-440M D5/5W DC12/12 Enc SIF	\$ 13,359.0	
S	TB9115H1DEH1DEJ400	Rptr 400-440M D5/5W ACDC12/12 Enc SIF	\$ 13,984.0	
			¢ 44 404 0	
S S	TB9115H1DEH1HEA400	Rptr 400-440M D5/50W AC/12 Enc SIF Rptr 400-440M D5/50W DC12/12 Enc SIF	\$ 14,161.0	
5	TB9115H1DEH1HEC000 TB9115H1DEH1HEJ400	Rptr 400-440M D5/50W ACDC12/12 Enc SIF	\$ 14,148.0	
,	1B3113111DEITITE3400	Kpti 400-440M D3/30W ACDC 12/12 Enc 3h	\$ 14,773.0	
S	TB9115H1HEH1HEA400	Rptr 400-440M D50/50W AC/12 Enc SIF	\$ 14,950.0	
5	TB9115H1HEH1HEC000	Rptr 400-440M D50/50W AC/12 Enc SIF	\$ 14,937.0	
S	TB9115H1HEH1HEJ400	Rptr 400-440M D50/50W ACDC12/12 Enc	\$ 15,562.0	
		P	÷,002.0	
s	TB9115H2DEH2DEA400	Rptr 440-480M D5/5W AC/12 Enc SIF	\$ 13,372.0	
S	TB9115H2DEH2DEC000	Rptr 440-480M D5/5W DC12/12 Enc SIF	\$ 13,359.0	
3	TB9115H2DEH2DEJ400	Rptr 440-480M D5/5W ACDC12/12 Enc SIF	\$ 13,984.0	
5	TB9115H2DEH2HEA400	Rptr 440-480M D5/50W AC/12 Enc SIF	\$ 14,161.0	
3	TB9115H2DEH2HEC000	Rptr 440-480M D5/50W DC12/12 Enc SIF	\$ 14,148.0	
S	TB9115H2DEH2HEJ400	Rptr 440-480M D5/50W ACDC12/12 Enc SIF	\$ 14,773.0	
S	TB9115H2HEH2HEA400	Rptr 440-480M D50/50W AC/12 Enc SIF	\$ 14,950.0	
5	TB9115H2HEH2HEC000	Rptr 440-480M D50/50W DC12/12 Enc SIF	\$ 14,937.0	
5	TB9115H2HEH2HEJ400	Rptr 440-480M D50/50W ACDC12/12 Enc	\$ 15,562.0	
3	TB9115H3DEH3DEA400	Rptr 470-520M D5/5W AC/12 Enc SIF	\$ 13,372.0	
3	TB9115H3DEH3DEC000	Rptr 470-520M D5/5W DC12/12 Enc SIF	\$ 13,359.0	
5	TB9115H3DEH3DEJ400	Rptr 470-520M D5/5W ACDC12/12 Enc SIF	\$ 13,984.0	
3 3	TB9115H3DEH3HEA400	Rptr 470-520M D5/50W AC/12 Enc SIF	\$ 14,161.0	
	TB9115H3DEH3HEC000	Rptr 470-520M D5/50W DC12/12 Enc SIF	\$ 14,148.0	
8	TB9115H3DEH3HEJ400	Rptr 470-520M D5/50W ACDC12/12 Enc SIF	\$ 14,773.0	
;		Detr 470 520M DE0/50M/ A C/42 Enc C/5	¢ 44.050.0	
) ;	TB9115H3HEH3HEA400	Rptr 470-520M D50/50W AC/12 Enc SIF	\$ 14,950.0	
	TB9115H3HEH3HEC000	Rptr 470-520M D50/50W DC12/12 Enc SIF	\$ 14,937.0 \$ 15,562.0	
		Rptr 470-520M D50/50W ACDC12/12 Enc		
5 5 5	TB9115H3HEH3HEJ400 TB9115H4DEH4DEA400	Rptr 380-420M D5/5W AC/12 Enc SIF	\$ 13,372.0	

S	TB9115H4DEH4DEJ400	Rptr 380-420M D5/5W ACDC12/12 Enc SIF	\$ 13,984.00
S	TB9115H4DEH4HEA400	Rptr 380-420M D5/50W AC/12 Enc SIF	\$ 14,161.00
S	TB9115H4DEH4HEC000	Rptr 380-420M D5/50W DC12/12 Enc SIF	\$ 14,148.00
S	TB9115H4DEH4HEJ400	Rptr 380-420M D5/50W ACDC12/12 Enc SIF	\$ 14,773.00
S	TB9115H4HEH4HEA400	Rptr 380-420M D50/50W AC/12 Enc SIF	\$ 14,950.00
s	TB9115H4HEH4HEC000	Rptr 380-420M D50/50W AC/12 Enc SIF	\$ 14,937.00
s	TB9115H4HEH4HEJ400	Rptr 380-420M D50/50W ACDC12/12 Enc	\$ 15,562.00
Ť.	Trunking System Interface (SIF)		÷ 10,002.000
s	TB9115H1DTH1DTA400	Rptr 400-440M D5/5W AC/12 trk SIF	\$ 13,372.00
S	TB9115H1DTH1DTC000	Rptr 400-440M D5/5W DC12/12 trk SIF	\$ 13,359.00
S	TB9115H1DTH1DTJ400	Rptr 400-440M D5/5W ACDC12/12 trk SIF	\$ 13,984.00
s	TB9115H1DTH1HTA400	Rptr 400-440M D5/50W AC/12 trk SIF	\$ 14,161.00
S	TB9115H1DTH1HTC000	Rptr 400-440M D5/50W DC12/12 trk SIF	\$ 14,148.00
S	TB9115H1DTH1HTJ400	Rptr 400-440M D5/50W ACDC12/12 trk SIF	\$ 14,773.00
S S	TB9115H1HTH1HTA400	Rptr 400-440M D50/50W AC/12 trk SIF	\$ 14,950.00
S	TB9115H1HTH1HTC000 TB9115H1HTH1HTJ400	Rptr 400-440M D50/50W DC12/12 trk SIF Rptr 400-440M D50/50W ACDC12/12 trk	\$ 14,937.00 \$ 15,562.00
3	169115010101013400	Rptr 400-440M D50/50W ACDC12/12 trk	\$ 15,562.00
S	TB9115H2DTH2DTA400	Rptr 440-480M D5/5W AC/12 trk SIF	\$ 13,372.00
S	TB9115H2DTH2DTC000	Rptr 440-480M D5/5W DC12/12 trk SIF	\$ 13,359.00
S	TB9115H2DTH2DTJ400	Rptr 440-480M D5/5W ACDC12/12 trk SIF	\$ 13,984.00
S	TB9115H2DTH2HTA400	Rptr 440-480M D5/50W AC/12 trk SIF	\$ 14,161.00
S	TB9115H2DTH2HTC000	Rptr 440-480M D5/50W DC12/12 trk SIF	\$ 14,148.00
S	TB9115H2DTH2HTJ400	Rptr 440-480M D5/50W ACDC12/12 trk SIF	\$ 14,773.00
s	TB9115H2HTH2HTA400	Rptr 440-480M D50/50W AC/12 trk SIF	\$ 14,950.00
S	TB9115H2HTH2HTC000	Rptr 440-480M D50/50W DC12/12 trk SIF	\$ 14,937.00
S	TB9115H2HTH2HTJ400	Rptr 440-480M D50/50W ACDC12/12 trk	\$ 15,562.00
S	TB9115H3DTH3DTA400	Rptr 470-520M D5/5W AC/12 trk SIF	\$ 13,372.00
S	TB9115H3DTH3DTC000	Rptr 470-520M D5/5W DC12/12 trk SIF	\$ 13,359.00
S	TB9115H3DTH3DTJ400	Rptr 470-520M D5/5W ACDC12/12 trk SIF	\$ 13,984.00
S	TB9115H3DTH3HTA400	Rptr 470-520M D5/50W AC/12 trk SIF	\$ 14,161.00
S	TB9115H3DTH3HTC000	Rptr 470-520M D5/50W DC12/12 trk SIF	\$ 14,148.00
S	TB9115H3DTH3HTJ400	Rptr 470-520M D5/50W ACDC12/12 trk SIF	\$ 14,773.00
s	TB9115H3HTH3HTA400	Rptr 470-520M D50/50W AC/12 trk SIF	\$ 14,950.00
S	TB9115H3HTH3HTC000	Rptr 470-520M D50/50W DC12/12 trk SIF	\$ 14,937.00
S	TB9115H3HTH3HTJ400	Rptr 470-520M D50/50W ACDC12/12 trk	\$ 15,562.00
s	TB9115H4DTH4DTA400	Rptr 380-420M D5/5W AC/12 trk SIF	\$ 13,372.00
S	TB9115H4DTH4DTC000	Rptr 380-420M D5/5W DC12/12 trk SIF	\$ 13,359.00
S	TB9115H4DTH4DTJ400	Rptr 380-420M D5/5W ACDC12/12 trk SIF	\$ 13,984.00
S	TB9115H4DTH4HTA400	Rptr 380-420M D5/50W AC/12 trk SIF	\$ 14,161.00
S	TB9115H4DTH4HTC000	Rptr 380-420M D5/50W DC12/12 trk SIF	\$ 14,148.00
S	TB9115H4DTH4HTJ400	Rptr 380-420M D5/50W ACDC12/12 trk SIF	\$ 14,773.00
S	TB9115H4HTH4HTA400	Rptr 380-420M D50/50W AC/12 trk SIF	\$ 14,950.00
S	TB9115H4HTH4HTC000	Rptr 380-420M D50/50W DC12/12 trk SIF	\$ 14,937.00
S	TB9115H4HTH4HTJ400	Rptr 380-420M D50/50W ACDC12/12 trk	\$ 15,562.00

TB9100 Dual 700/800MHz with PMU (NO Software License Included) Option to exclude SIF in second repeater exists, please refer to the Product Catalog or contact your L3Harris Representative for the configured part number.

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Issued: 08/31/20

	ured part number.		
E/C	Item Code	Description	List Price
	Conventional System Interface (SIF)		
S	TB9115K4DPK4DPA400	Rptr 762-870M D5/5W AC/12 conv SIF	\$ 13,372.00
5	TB9115K4DPK4DPC000	Rptr 762-870M D5/5W DC12/12 conv SIF	\$ 13,359.00
3	TB9115K4DPK4DPJ400	Rptr 762-870M D5/5W ACDC12/12 conv	\$ 13,984.00
3	TB9115K4DPK4HPA400	Rptr 762-870M D5/50W AC/12 conv SIF	\$ 14,161.00
3	TB9115K4DPK4HPC000	Rptr 762-870M D5/50W DC12/12 conv SIF	\$ 14,148.00
5	TB9115K4DPK4HPJ400	Rptr 762-870M D5/50W ACDC12/12 conv	\$ 14,773.00
5	TB9115K4HPK4HPA400	Rptr 762-870M D50/50W AC/12 conv SIF	\$ 14,950.00
3	TB9115K4HPK4HPC000	Rptr 762-870M D50/50WDC12/12 conv SIF	\$ 14,937.00
3	TB9115K4HPK4HPJ400	Rptr 762-870M D50/50W ACDC12/12 conv	\$ 15,562.00
	Encrypted System Interface (SIF)		
5	TB9115K4DEK4DEA400	Rptr 762-870M D5/5W AC/12 Enc SIF	\$ 13,372.00
3	TB9115K4DEK4DEC000	Rptr 762-870M D5/5W DC12/12 Enc SIF	\$ 13,359.00
6 6	TB9115K4DEK4DEJ400	Rptr 762-870M D5/5W ACDC12/12 Enc SIF	\$ 13,984.00
	TB9115K4DEK4HEA400	Rptr 762-870M D5/50W AC/12 Enc SIF	\$ 14,161.00
	TB9115K4DEK4HEC000	Rptr 762-870M D5/50W DC12/12 Enc SIF	\$ 14,148.00
	TB9115K4DEK4HEJ400	Rptr 762-870M D5/50W ACDC12/12 Enc SIF	\$ 14,773.00
	TB9115K4HEK4HEA400	Rptr 762-870M D50/50W AC/12 Enc SIF	\$ 14,950.00
;	TB9115K4HEK4HEC000	Rptr 762-870M D50/50WDC12/12 Enc SIF	\$ 14,937.00
	TB9115K4HEK4HEJ400	Rptr 762-870M D50/50W ACDC12/12 Enc	\$ 15,562.00
	Trunking System Interface (SIF)		
	TB9115K4DTK4DTA400	Rptr 762-870M D5/5W AC/12 trk SIF	\$ 13,372.00
	TB9115K4DTK4DTC000	Rptr 762-870M D5/5W DC12/12 trk SIF	\$ 13,359.00
; ;	TB9115K4DTK4DTJ400	Rptr 762-870M D5/5W ACDC12/12 trk SIF	\$ 13,984.00
	TB9115K4DTK4HTA400	Rptr 762-870M D5/50W AC/12 trk SIF	\$ 14,161.00
	TB9115K4DTK4HTC000	Rptr 762-870M D5/50W DC12/12 trk SIF	\$ 14,148.00
;	TB9115K4DTK4HTJ400	Rptr 762-870M D5/50W ACDC12/12 trk SIF	\$ 14,773.00
5	TB9115K4HTK4HTA400	Rptr 762-870M D50/50W AC/12 trk SIF	\$ 14,950.00
;	TB9115K4HTK4HTC000	Rptr 762-870M D50/50WDC12/12 trk SIF	\$ 14,937.00
;	TB9115K4HTK4HTJ400	Rptr 762-870M D50/50W ACDC12/12 trk	\$ 15,562.00
ГВ9	100 Single VHF with 12VDC	PA no PMU (NO Software License Included)	
/C	Item Code	Description	List Price
	Conventional System Interface (SIF)		
;	TB9125B2QP0000000	Rptr 136-156M 5W 12V PA conv SIF	\$ 6,342.00
;	TB9125B2RP0000000	Rptr 136-156M 50W 12V PA conv SIF	\$ 7,131.00
;	TB9125B3QP0000000	Rptr 148-174M 5W 12V PA conv SIF	\$ 6,342.00
3	TB9125B3RP0000000	Rptr 148-174M 50W 12V PA conv SIF	\$ 7,131.00
rB9	100 Single UHF with 12VDC		. ,
E/C	Item Code	Description	List Price
	Conventional System Interface (SIF)		LISTINCC
3	TB9125H1QP0000000	Rptr 400-440M 5W 12V PA conv SIF	\$ 6,342.00
5	TB9125H1RP0000000	Rptr 400-440M 50W 12V PA conv SIF	\$ 7,131.00
, ;	TB9125H2QP0000000	Rptr 440-480M 5W 12V PA conv SIF	\$ 6,342.00
, ;	TB9125H2RP0000000	Rptr 440-480M 50W 12V PA conv SIF	\$ 7,131.00
;	TB9125H3QP0000000	Rptr 470-520M 5W 12V PA conv SIF	\$ 6,342.00
;	TB9125H3RP0000000	Rptr 470-520M 50W 12V PA conv SIF	\$ 7,131.00
;	TB9125H4QP0000000	Rptr 380-420M 5W 12V PA conv SIF	\$ 6,342.00
;	TB9125H4RP0000000	Rptr 380-420M 50W 12V PA conv SIF	\$ 7,131.00
			ψ 1,131.00
		12VDC PA no PMU (NO Software License Included)	11.48
/C	Item Code	Description	List Price
	Conventional System Interface (SIF)		
5	TB9125K4QP0000000	Rptr 762-870M 5W 12V PA conv SIF	\$ 6,342.00
	TB9125K4RP0000000	Rptr 762-870M 50W 12V PA conv SIF	\$ 7,131.00
		ly with PMU no Power Amplifier - (NO Software License Included)	
ingle	e receiver configurations shown below -	for multiple receivers contact your L3Harris Representative for the configured pattern	art number
<u>/C</u>	Item Code	Description	List Price
	Conventional SIF		
	TB9145B21P0000A400	Rx Only 136-156M AC/12 cord conv SIF	\$ 5,726.00
	TB9145B21P0000C000	Rx Only 136-156M DC12/12 conv SIF	\$ 5,713.00
	TB9145B21P0000J400	Rx Only 136-156M ACDC12/12 conv SIF	\$ 6,338.00
	TB9145B31P0000A400	Rx Only 148-174M AC/12 conv SIF	\$ 5,726.00
	TB9145B31P0000C000	Rx Only 148-174M DC12/12 conv SIF	\$ 5,713.00
	TB9145B31P0000J400	Rx Only 148-174M ACDC12/12 conv SIF	\$ 6,338.00
	Trunking SIF		÷ 0,550.00
;		Ry Only 136-156M AC/12 trk SIE	\$ 5,726.00
, ;	TB9145B21T0000A400	Rx Only 136-156M AC/12 trk SIF	
	TB9145B21T0000C000	Rx Only 136-156M DC12/12 trk SIF	\$ 5,713.00
	TB9145B21T0000J400	Rx Only 136-156M ACDC12/12 trk SIF	\$ 6,338.00
	TD0445D24T00004400		
;	TB9145B31T0000A400	Rx Only 148-174M AC/12 trk SIF	
5 5 5 5	TB9145B31T0000A400 TB9145B31T0000C000 TB9145B31T0000J400	Rx Only 148-174M AC/12 trk SIF Rx Only 148-174M AC/12 trk SIF Rx Only 148-174M ACDC12/12 trk SIF	\$ 5,726.00 \$ 5,713.00 \$ 6,338.00

TB9100 Single UHF Receive Only with PMU no Power Amplifier (NO Software License Included)	
Single receiver configurations shown below - for multiple receivers contact your L3Harris Representative for the configured part	rt number

E/C	Item Code	Description	List Price
	Conventional SIF		
	TB9145H11P0000A400	Rx Only 400-440M AC/12 conv SIF	\$ 5,726.0
5	TB9145H11P0000C000	Rx Only 400-440M DC12/12 conv SIF	\$ 5,713.0
;	TB9145H11P0000J400	Rx Only 400-440M ACDC12/12 conv SIF	\$ 6,338.0
3	TB9145H21P0000A400	Rx Only 440-480M AC/12 conv SIF	\$ 5,726.0
5	TB9145H21P0000C000	Rx Only 440-480M DC12/12 conv SIF	\$ 5,713.0
5	TB9145H21P0000J400	Rx Only 440-480M ACDC12/12 conv SIF	\$ 6,338.0
3	TB9145H31P0000A400	Rx Only 470-520M AC/12 conv SIF	\$ 5,726.0
3	TB9145H31P0000C000	Rx Only 470-520M DC12/12 conv SIF	\$ 5,713.0
3	TB9145H31P0000J400	Rx Only 470-520M ACDC12/12 conv SIF	\$ 6,338.0
5	TB9145H41P0000A400	Rx Only 380-420M AC/12 conv SIF	\$ 5,726.0
3	TB9145H41P0000C000	Rx Only 380-420M DC12/12 conv SIF	\$ 5,713.0
3	TB9145H41P0000J400	Rx Only 380-420M ACDC12/12 conv SIF	\$ 6,338.0
	Trunking SIF		
;	TB9145H11T0000A400	Rx Only 400-440M AC/12 trk SIF	\$ 5,726.0
;	TB9145H11T0000C000	Rx Only 400-440M DC12/12 trk SIF	\$ 5,713.0
3	TB9145H11T0000J400	Rx Only 400-440M ACDC12/12 trk SIF	\$ 6,338.0
3	TB9145H21T0000A400	Rx Only 440-480M AC/12 trk SIF	\$ 5,726.0
3	TB9145H21T0000C000	Rx Only 440-480M DC12/12 trk SIF	\$ 5,713.0
3	TB9145H21T0000J400	Rx Only 440-480M ACDC12/12 trk SIF	\$ 6,338.0
;	TB9145H31T0000A400	Rx Only 470-520M AC/12 trk SIF	\$ 5,726.0
;	TB9145H31T0000C000	Rx Only 470-520M DC12/12 trk SIF	\$ 5,713.0
;	TB9145H31T0000J400	Rx Only 470-520M ACDC12/12 trk SIF	\$ 6,338.0
3	TB9145H41T0000A400	Rx Only 380-420M AC/12 trk SIF	\$ 5,726.0
3	TB9145H41T0000C000	Rx Only 380-420M DC12/12 trk SIF	\$ 5,713.0
3	TB9145H41T0000J400	Rx Only 380-420M ACDC12/12 trk SIF	\$ 6,338.0
		ceive Only with PMU no Power Amplifier (NO Software License Inclu	
		i - for multiple receivers contact your L3Harris Representative for the configured particular	
5/ITU E/C	Item Code		
:/0		Description	List Price
3	Conventional SIF	Dr. On to 700 07011 A 0/40 0/5	¢ 5 700 0
	TB9145K41P0000A400	Rx Only 762-870M AC/12 conv SIF Rx Only 762-870M DC12/12 conv SIF	\$ 5,726.0
6 6	TB9145K41P0000C000 TB9145K41P0000J400		\$ 5,713.0
,		Rx Only 762-870M ACDC12/12 conv SIF	\$ 6,338.0
;	Trunking SIF	By Only 762 870M AC/42 try SIE	
			¢ 57260
	TB9145K41T0000A400	Rx Only 762-870M AC/12 trk SIF	\$ 5,726.0
;	TB9145K41T0000C000	Rx Only 762-870M DC12/12 trk SIF	\$ 5,713.0
5 5	TB9145K41T0000C000 TB9145K41T0000J400	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF	
; гВ:	TB9145K41T0000C000 TB9145K41T0000J400 9100 Single VHF Receive OI	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included)	\$ 5,713.0 \$ 6,338.0
5 5 68	TB9145K41T0000C000 TB9145K41T0000J400 9100 Single VHF Receive Or Item Code	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF	\$ 5,713.0
ГВ [/С	TB9145K41T0000C000 TB9145K41T0000J400 9100 Single VHF Receive Or Item Code Conventional SIF	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description	\$ 5,713.0 \$ 6,338.0 List Price
1B9 5/C	TB9145K41T0000C000 TB9145K41T0000J400 9100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0
7B9 7/C	TB9145K41T0000C000 TB9145K41T0000J400 9100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TB9147B31P00000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description	\$ 5,713.0 \$ 6,338.0 List Price
5 789 5/C	TB9145K41T0000C000 TB9145K41T0000J400 2100 Single VHF Receive Ot Item Code Conventional SIF TB9147B21P00000000 TB9147B31P00000000 Trunking SIF	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0
	TB9145K41T0000C000 TB9145K41T0000J400 9100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TB9147B31P00000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF NIy no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0
	TB9145K41T0000C000 TB9145K41T0000J400 9100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TB9147B31P00000000 Trunking SIF TB9147B21T00000000 TB9147B3170000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0
	TB9145K41T0000C000 TB9145K41T0000J400 9100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TB9147B31P00000000 Trunking SIF TB9147B21T00000000 TB9147B3170000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0 \$ 3,824.0
; ; ; ; ; ; ; ; ;	TB9145K41T0000C000 TB9145K41T0000J400 9100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TB9147B31P00000000 Trunking SIF TB9147B21T00000000 TB9147B3170000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF NIy no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0 \$ 3,824.0 \$ 3,824.0
; ; ; ; ; ; ; ; ;	TB9145K41T0000C000 TB9145K41T0000J400 2100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TFUNKing SIF TB9147B21T00000000 TB9147B21T0000000 TB9147B31T0000000 D19147B31T0000000 Item Code	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0 \$ 3,824.0
5 5 7 1 5 7 5 5 5 5 7 1 5 5 5 7 1 5 5 5 7 1 5 5 5 7 1 5 5 5 7 1 5 5 5 7 1 7 1	TB9145K41T0000C000 TB9145K41T0000J400 2100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 Trunking SIF TB9147B21T00000000 TB9147B21T00000000 TB9147B21T00000000 TB9147B21T00000000 TB9147B31T0000000 Conventional SIF Conventional SIF	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Description	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0 \$ 3,824.0 List Price
5 5 7 8 5 5 5 7 8 5 7 8 5 7 8 5 7 8 5 7 8 5 7 8 5 7 8 5 7 8 7 8	TB9145K41T0000C000 TB9145K41T0000J400 2100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TB9147B31P00000000 Trunking SIF TB9147B21T00000000 TB9147B21T00000000 D91407B31T00000000 D9100 Single UHF Receive Or Item Code Conventional SIF TB9147H11P00000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 400 - 440M 12VDC conv SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0 \$ 3,824.0 \$ 3,824.0 List Price \$ 3,824.0 \$ 3,824.0
5 5 7 8 7 8 5 5 5 7 8 5 5 5 5 5	TB9145K41T0000C000 TB9145K41T0000J400 2100 Single VHF Receive Or Item Code Conventional SIF TB9147B31P00000000 Trunking SIF TB9147B31P00000000 TB9147B31P00000000 TB9147B31T00000000 B9100 Single UHF Receive Or Item Code Conventional SIF TB9147H11P00000000 TB9147H21P00000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 400 ar Power Amplifier (NO Software License Included) Description Rx Only 400-440M 12VDC conv SIF Rx Only 440-480M 12VDC conv SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0
	TB9145K41T0000C000 TB9145K41T0000J400 2100 Single VHF Receive Or Item Code Conventional SIF TB9147B31P0000000 TB9147B31P0000000 TB9147B31T0000000 TB9147B31T0000000 P000 Single UHF Receive Or Item Code Conventional SIF TB9147B31T0000000 TB9147B31T0000000 TB9147B31T0000000 TB9147B31T0000000 TB9147H31T00000000 TB9147H31P00000000 TB9147H31P00000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 400 or Power Amplifier (NO Software License Included) Description Rx Only 400-440M 12VDC conv SIF Rx Only 440-480M 12VDC conv SIF Rx Only 440-480M 12VDC conv SIF Rx Only 440-480M 12VDC conv SIF Rx Only 440-520M 12VDC conv SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0
	TB9145K41T0000C000 TB9145K41T0000J400 P100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TB9147B31P00000000 Trunking SIF TB9147B21T00000000 TB9147B31T0000000 TB9147B31T0000000 Other Code Conventional SIF TB9147H11P00000000 TB9147H11P00000000 TB9147H14P0000000 TB9147H14P0000000 TB9147H14P0000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 400 ar Power Amplifier (NO Software License Included) Description Rx Only 400-440M 12VDC conv SIF Rx Only 440-480M 12VDC conv SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0
	TB9145K41T0000C000 TB9145K41T0000J400 P100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TB9147B31P00000000 Trunking SIF TB9147B31T00000000 TB9147B31T0000000 Of D0 Single UHF Receive Or Item Code Conventional SIF TB9147H11P00000000 TB9147H14P0000000 TB9147H14P0000000 TB9147H31P0000000 TB9147H41P0000000 TB9147H41P0000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H41P0000000 TB9147H41P0000000 TB9147H31P0000000 TB9147H31P0000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF no PMU or Power Amplifier (NO Software License Included) Description Rx Only 440-440M 12VDC conv SIF Rx Only 440-440M 12VDC conv SIF Rx Only 440-480M 12VDC conv SIF Rx Only 440-480M 12VDC conv SIF Rx Only 380-420M 12VDC conv SIF Rx Only 380-420M 12VDC conv SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0
	TB9145K41T0000C000 TB9145K41T0000J400 2100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TB9147B31P00000000 Trunking SIF TB9147B21T00000000 TB9147B31T00000000 B9147B31T00000000 D100 Single UHF Receive Or Item Code Conventional SIF TB9147H11P0000000 TB9147H11P0000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H31P0000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 400 or Power Amplifier (NO Software License Included) Description Rx Only 400-440M 12VDC conv SIF Rx Only 440-480M 12VDC conv SIF Rx Only 470-520M 12VDC conv SIF Rx Only 400-440M 12VDC trk SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0
	TB9145K41T0000C000 TB9145K41T0000J400 2100 Single VHF Receive Or Item Code Conventional SIF TB9147B31P0000000 Trunking SIF TB9147B31P0000000 TB9147B31P0000000 Oto Single UHF Receive Or Item Code Conventional SIF TB9147B31P0000000 TB9147B31P0000000 TB9147B31P0000000 TB9147H31P0000000 TB9147H11P00000000 TB9147H41P0000000 Trunking SIF TB9147H41P00000000 Trunking SIF TB9147H41P00000000 Trunking SIF TB9147H41T00000000 Trunking SIF TB9147H21T00000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 400 or Power Amplifier (NO Software License Included) Description Rx Only 400-440M 12VDC conv SIF Rx Only 440-480M 12VDC conv SIF Rx Only 430-440M 12VDC conv SIF Rx Only 380-420M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 400-440M 12VDC trk SIF Rx Only 400-440M 12VDC trk SIF Rx Only 400-440M 12VDC trk SIF Rx Only 440-480M 12VDC trk SIF Rx Only 440-480M 12VDC trk SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0
	TB9145K41T0000C000 TB9145K41T0000J400 2100 Single VHF Receive Or Item Code Conventional SIF TB9147B31P0000000 TB9147B31P0000000 TB9147B31P0000000 TB9147B31T0000000 Of Single UHF Receive Or Item Code Conventional SIF TB9147B3170000000 2100 Single UHF Receive Or Item Code Conventional SIF TB9147H11P00000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H11200000000 TB9147H11200000000 TB9147H11700000000 TB9147H11700000000 TB9147H11700000000 TB9147H31700000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC conv SIF Rx Only 400-440M 12VDC trk SIF Rx Only 400-520M 12VDC trk SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0
5 5 7 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	TB9145K41T0000C000 TB9145K41T0000J400 2100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TB9147B31P0000000 Trunking SIF TB9147B31T0000000 TB9147B31T0000000 Engle VHF Receive Or Item Code Conventional SIF TB9147B31T0000000 TB9147H31T0000000 2000 Single UHF Receive Or Item Code Conventional SIF TB9147H31P0000000 TB9147H31P0000000 TB9147H41P0000000 TB9147H41P10000000 TB9147H41P0000000 TB9147H41P10000000 TB9147H41P10000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 380-420M 12VDC conv SIF Rx Only 400-440M 12VDC trk SIF Rx Only 400-420M 12VDC trk SIF Rx Only 380-420M 12VDC trk SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0
	TB9145K41T0000C000 TB9145K41T0000J400 2100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TB9147B31P0000000 Trunking SIF TB9147B31T0000000 TB9147B31T0000000 Engle VHF Receive Or Item Code Conventional SIF TB9147B31T0000000 TB9147H31T0000000 2000 Single UHF Receive Or Item Code Conventional SIF TB9147H31P0000000 TB9147H31P0000000 TB9147H41P0000000 TB9147H41P10000000 TB9147H41P0000000 TB9147H41P10000000 TB9147H41P10000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC conv SIF Rx Only 400-440M 12VDC trk SIF Rx Only 400-520M 12VDC trk SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0
5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	TB9145K41T0000C000 TB9145K41T0000J400 2100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TB9147B31P0000000 Trunking SIF TB9147B31T0000000 TB9147B31T0000000 Engle VHF Receive Or Item Code Conventional SIF TB9147B31T0000000 TB9147H31T0000000 2000 Single UHF Receive Or Item Code Conventional SIF TB9147H31P0000000 TB9147H31P0000000 TB9147H41P0000000 TB9147H41P10000000 TB9147H41P0000000 TB9147H41P10000000 TB9147H41P10000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 148-174M 12VDC trk SIF Rx Only 148-174M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 380-420M 12VDC conv SIF Rx Only 400-440M 12VDC trk SIF Rx Only 400-420M 12VDC trk SIF Rx Only 380-420M 12VDC trk SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0
	TB9145K41T0000C000 TB9145K41T0000J400 2100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TB9147B31P0000000 TB9147B21T0000000 TB9147B31T0000000 TB9147B31T0000000 TB9147B31T0000000 OD Single UHF Receive Or Item Code Conventional SIF TB9147H31T0000000 TB9147H31T0000000 TB9147H11P0000000 TB9147H31P0000000 TB9147H41P0000000 TB9147H41P0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC conv SIF Rx Only 148-174M 12VDC trk SIF no PMU or Power Amplifier (NO Software License Included) Description Rx Only 400-440M 12VDC conv SIF Rx Only 440-480M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 400-440M 12VDC trk SIF Rx Only 440-480M 12VDC trk SIF Rx Only 380-420M 12VDC trk SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0
	TB9145K41T0000C000 TB9145K41T0000J400 P100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TB9147B31P00000000 TB9147B31P0000000 TB9147B31P0000000 TB9147B31T0000000 TB9147B31T0000000 TB9147B31T0000000 TB9147B31T0000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H41P0000000 TB9147H41P0000000 TB9147H41P0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 148-174M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC conv SIF Rx Only 148-174M 12VDC trk SIF no PMU or Power Amplifier (NO Software License Included) Description Rx Only 400-440M 12VDC conv SIF Rx Only 440-480M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 400-440M 12VDC trk SIF Rx Only 440-480M 12VDC trk SIF Rx Only 380-420M 12VDC trk SIF	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0
	TB9145K41T0000C000 TB9145K41T0000J400 2100 Single VHF Receive Or Item Code Conventional SIF TB9147B21P00000000 TB9147B31P00000000 TB9147B31P00000000 TB9147B31T00000000 TB9147B31T00000000 TB9147B31T0000000 Old Single UHF Receive Or Item Code Conventional SIF TB9147H31P0000000 TB9147H31P00000000 TB9147H31P0000000 TB9147H31P0000000 TB9147H41P0000000 TB9147H31P0000000 TB9147H41P0000000 TB9147H41P0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H41T0000000 TB9147H417 TB9147H41T0000000 </td <td>Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 400-440M 12VDC conv SIF Rx Only 440-480M 12VDC conv SIF Rx Only 440-480M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 400-440M 12VDC trk SIF Rx Only 380-420M 12VDC trk SIF Rx Only 380-420M 12VDC trk SIF Rx Only 380-420M 12VDC trk SIF Ceive Only no PMU or Power Amplifier (NO Software License Included) Description</td> <td>\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0</td>	Rx Only 762-870M DC12/12 trk SIF Rx Only 762-870M ACDC12/12 trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC conv SIF Rx Only 136-156M 12VDC trk SIF Rx Only 136-156M 12VDC trk SIF Rx Only 148-174M 12VDC trk SIF nly no PMU or Power Amplifier (NO Software License Included) Description Rx Only 400-440M 12VDC conv SIF Rx Only 440-480M 12VDC conv SIF Rx Only 440-480M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 400-440M 12VDC conv SIF Rx Only 400-440M 12VDC trk SIF Rx Only 380-420M 12VDC trk SIF Rx Only 380-420M 12VDC trk SIF Rx Only 380-420M 12VDC trk SIF Ceive Only no PMU or Power Amplifier (NO Software License Included) Description	\$ 5,713.0 \$ 6,338.0 List Price \$ 3,824.0 \$ 3,824.0

TB9100 Transportable VHF Repeater with Lightning Arrestor

103	100 Transportable VHF R		
Note:	Pricing includes Duplexer. Please	contact your L3Harris representative for other Duplexer options and colors.	
E/C	Item Code	Description	List Price
s	TB9108B2RPDA00Z400	Trans Rpt 136-156M 50W sp4-6M ACDC12	\$ 15,310.00
S	TB9108B2RPDA00Z4AA	Trans Rpt P25 136-156M 50W sp4-6M ACDC12	\$ 21,760.00
S	TB9108B3RPDD00Z400	Trans Rpt 152-174M 50W sp4-6M ACDC12	\$ 15,310.00
S	TB9108B3RPDD00Z4AA	Trans Rpt P25 152-174M 50W sp4-6M ACDC12	\$ 21,760.00
TB9	100 Transportable UHE B	Repeater with Lightning Arrestor	
		contact your L3Harris representative for other Duplexer options and colors.	
E/C	Item Code	Description	List Price
S	TB9108H1RPDG00Z400	Trans Rpt 400-440M 50W sp5-7M ACDC12	\$ 15,310.00
S	TB9108H1RPDG00Z4AA	Trans Rpt P25 400-440M 50W sp5-7M ACDC12	\$ 21,760.00
S	TB9108H2RPDG00Z400	Trans Rpt 440-480M 50W sp5-7M ACDC12	\$ 15,310.00
S	TB9108H2RPDG00Z4AA	Trans Rpt P25 440-480M 50W sp5-7M ACDC12	\$ 21,760.00
S	TB9108H3RPDH00Z400	Trans Rpt 470-520M 50W sp7-9M ACDC12	\$ 15,310.00
S	TB9108H3RPDH00Z4AA	Trans Rpt P25 470-520M 50W sp7-9M ACDC12	\$ 21,760.00
S	TB9108H4RPDH00Z400	Trans Rpt 380-420M 50W sp7-9M ACDC12	\$ 15,310.00
S	TB9108H4RPDH00Z4AA	Trans Rpt P25 380-420M 50W sp7-9M ACDC12	\$ 21,760.00
	5 Digital Base Stati 100 - Software Licenses	on - Software Feature Options	
E/C	Item Code	Description	List Price
s	TBAKEY01	TB9100 Software License Installer	\$ 352.00
S	TBAS050	SFE P25 Common Air Interface (CAI)	\$ 6,450.00
S	TBAS051	SFE Key - Analog Line (TB91) (TBAS050 prerequisite)	¢ 05.00
	1 BAOVOI	or Entry Analog Entre (1861) (1840000 protoquisito)	\$ 95.00
S	TBAS054	SFE MDC1200 Signaling on Analog Line	\$ 95.00
S S			
	TBAS054	SFE MDC1200 Signaling on Analog Line	\$ 262.00
S	TBAS054 TBAS056	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94)	\$ 262.00 \$ 5,386.00
S S S	TBAS054 TBAS056 TBAS057	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94) SFE P25 Base Enc & Key Loading SFE Key - P25 AES Enc (TB91) SFE Digital Fixed Station Interface	\$ 262.00 \$ 5,386.00 \$ 1,047.00
S S S S	TBAS054 TBAS056 TBAS057 TBAS058	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94) SFE P25 Base Enc & Key Loading SFE Key - P25 AES Enc (TB91) SFE Digital Fixed Station Interface SFE Key - Central Voter (TB91/94) (TBAS067 prerequisite)	\$ 262.00 \$ 5,386.00 \$ 1,047.00 \$ 1,047.00
S S S S S	TBAS054 TBAS056 TBAS057 TBAS058 TBAS060 TBAS061 TBAS062	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94) SFE P25 Base Enc & Key Loading SFE Key - P25 AES Enc (TB91) SFE Digital Fixed Station Interface SFE Key - Central Voter (TB91/94) (TBAS067 prerequisite) SFE Key - Simulcast Enable (TB91/94)	\$ 262.00 \$ 5,386.00 \$ 1,047.00 \$ 1,047.00 \$ 523.00 \$ 4,826.00 \$ 4,730.00
S S S S S S	TBAS054 TBAS056 TBAS057 TBAS058 TBAS060 TBAS061 TBAS062 TBAS063	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94) SFE P25 Base Enc & Key Loading SFE Key - P25 AES Enc (TB91) SFE Digital Fixed Station Interface SFE Key - Central Voter (TB91/94) (TBAS067 prerequisite) SFE Key - Simulcast Enable (TB91/94) SFE Failsoft for P25 Trunking (TB91/94)	\$ 262.00 \$ 5,386.00 \$ 1,047.00 \$ 1,047.00 \$ 523.00 \$ 4,826.00 \$ 4,730.00 \$ 508.00
S S S S S S S	TBAS054 TBAS056 TBAS057 TBAS058 TBAS060 TBAS061 TBAS062 TBAS063 TBAS064	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94) SFE P25 Base Enc & Key Loading SFE Key - P25 AES Enc (TB91) SFE Digital Fixed Station Interface SFE Key - Central Voter (TB91/94) (TBAS067 prerequisite) SFE Key - Simulcast Enable (TB91/94) SFE Failsoft for P25 Trunking (TB91/94) SFE Key - CSSI Connection (91)	\$ 262.00 \$ 5,386.00 \$ 1,047.00 \$ 1,047.00 \$ 523.00 \$ 4,826.00 \$ 4,826.00 \$ 4,730.00 \$ 508.00 \$ 541.00
S S S S S S	TBAS054 TBAS056 TBAS057 TBAS058 TBAS060 TBAS061 TBAS062 TBAS063	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94) SFE P25 Base Enc & Key Loading SFE Key - P25 AES Enc (TB91) SFE Digital Fixed Station Interface SFE Key - Central Voter (TB91/94) (TBAS067 prerequisite) SFE Key - Simulcast Enable (TB91/94) SFE Failsoft for P25 Trunking (TB91/94)	\$ 262.00 \$ 5,386.00 \$ 1,047.00 \$ 1,047.00 \$ 523.00 \$ 4,826.00 \$ 4,730.00 \$ 508.00
s s s s s s s s TB9	TBAS054 TBAS056 TBAS057 TBAS058 TBAS060 TBAS061 TBAS062 TBAS063 TBAS064 TBAS067 100 - Receive-only Softw	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94) SFE P25 Base Enc & Key Loading SFE Key - P25 AES Enc (TB91) SFE Digital Fixed Station Interface SFE Key - Central Voter (TB91/94) (TBAS067 prerequisite) SFE Key - Simulcast Enable (TB91/94) SFE Failsoft for P25 Trunking (TB91/94) SFE Key - CSSI Connection (91) SFE Transceiver Networking (TB91/94)	\$ 262.00 \$ 5,386.00 \$ 1,047.00 \$ 1,047.00 \$ 523.00 \$ 4,826.00 \$ 4,730.00 \$ 508.00 \$ 541.00 \$ 788.00
S S S S S S S S TB9 S	TBAS054 TBAS056 TBAS057 TBAS058 TBAS060 TBAS061 TBAS062 TBAS063 TBAS064 TBAS067 100 - Receive-only Softw TBAS050-R0	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94) SFE P25 Base Enc & Key Loading SFE Key - P25 AES Enc (TB91) SFE Digital Fixed Station Interface SFE Key - Central Voter (TB91/94) (TBAS067 prerequisite) SFE Key - Simulcast Enable (TB91/94) SFE Failsoft for P25 Trunking (TB91/94) SFE Key - CSI Connection (91) SFE Transceiver Networking (TB91/94) are Licenses SFE P25 Common Air Interface (CAI)	\$ 262.00 \$ 5,386.00 \$ 1,047.00 \$ 1,047.00 \$ 523.00 \$ 4,826.00 \$ 4,826.00 \$ 4,730.00 \$ 508.00 \$ 508.00 \$ 541.00 \$ 788.00 \$ 3,225.00
s s s s s s s s s s s s s s s s s s s	TBAS054 TBAS056 TBAS057 TBAS058 TBAS060 TBAS061 TBAS062 TBAS063 TBAS064 TBAS067 100 - Receive-only Softw TBAS051-R0	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94) SFE P25 Base Enc & Key Loading SFE Key - P25 AES Enc (TB91) SFE Digital Fixed Station Interface SFE Key - Central Voter (TB91/94) (TBAS067 prerequisite) SFE Key - Simulcast Enable (TB91/94) SFE Failsoft for P25 Trunking (TB91/94) SFE Key - CSSI Connection (91) SFE Transceiver Networking (TB91/94) are Licenses SFE P25 Common Air Interface (CAI) SFE Key - Analog Line	\$ 262.00 \$ 5,386.00 \$ 1,047.00 \$ 1,047.00 \$ 523.00 \$ 4,826.00 \$ 4,730.00 \$ 508.00 \$ 508.00 \$ 541.00 \$ 788.00 \$ 3,225.00 \$ 49.00
s s s s s s s s s s s s s s s s s	TBAS054 TBAS056 TBAS057 TBAS058 TBAS060 TBAS061 TBAS062 TBAS063 TBAS067 100 - Receive-only Softw TBAS050-R0 TBAS051-R0 TBAS054-R0	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94) SFE P25 Base Enc & Key Loading SFE Key - P25 AES Enc (TB91) SFE Digital Fixed Station Interface SFE Key - Central Voter (TB91/94) (TBAS067 prerequisite) SFE Key - Central Voter (TB91/94) SFE Key - Simulcast Enable (TB91/94) SFE Key - Simulcast Enable (TB91/94) SFE Key - CSI Connection (91) SFE Transceiver Networking (TB91/94) are Licenses SFE Key - Analog Line SFE Key - MDC1200 Signaling on Anlg Line	\$ 262.00 \$ 5,386.00 \$ 1,047.00 \$ 1,047.00 \$ 523.00 \$ 4,826.00 \$ 4,730.00 \$ 508.00 \$ 541.00 \$ 541.00 \$ 788.00 \$ 3,225.00 \$ 49.00 \$ 131.00
s s s s s s s s s s s s s s s s s s s	TBAS054 TBAS056 TBAS057 TBAS058 TBAS060 TBAS061 TBAS062 TBAS063 TBAS064 TBAS067 100 - Receive-only Softw TBAS051-R0 TBAS054-R0 TBAS054-R0 TBAS056-R0	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94) SFE P25 Base Enc & Key Loading SFE P25 Base Enc & Key Loading SFE V25 Base Enc & Key Loading SFE Digital Fixed Station Interface SFE Key - Central Voter (TB91/94) (TBAS067 prerequisite) SFE Key - Central Voter (TB91/94) SFE Failsoft for P25 Trunking (TB91/94) SFE Key - CSSI Connection (91) SFE Transceiver Networking (TB91/94) are Licenses SFE P25 Common Air Interface (CAI) SFE Key - Analog Line SFE Key - NDC1200 Signaling on Anlg Line SFE Key - P25 Trunking Operation	\$ 262.00 \$ 5,386.00 \$ 1,047.00 \$ 1,047.00 \$ 523.00 \$ 4,826.00 \$ 4,730.00 \$ 508.00 \$ 541.00 \$ 541.00 \$ 788.00 \$ 3,225.00 \$ 49.00 \$ 131.00 \$ 2,693.00
s s s s s s s s s s s s s s s s s s s	TBAS054 TBAS056 TBAS057 TBAS058 TBAS061 TBAS062 TBAS063 TBAS064 TBAS067 100 - Receive-only Softw TBAS051-R0 TBAS054-R0 TBAS057-R0 TBAS057-R0	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94) SFE P25 Base Enc & Key Loading SFE V25 Base Enc & Key Loading SFE Digital Fixed Station Interface SFE Key - Central Voter (TB91/94) (TBAS067 prerequisite) SFE Key - Central Voter (TB91/94) (TBAS067 prerequisite) SFE Key - Central Voter (TB91/94) (SFE Failsoft for P25 Trunking (TB91/94) SFE Key - CSSI Connection (91) SFE Transceiver Networking (TB91/94) are Licenses SFE P25 Common Air Interface (CAI) SFE Key - Analog Line SFE Key - MDC1200 Signaling on Anlg Line SFE Key - P25 Trunking Operation SFE Key - P25 Base Encrp & Key Loading	\$ 262.00 \$ 5,386.00 \$ 1,047.00 \$ 1,047.00 \$ 523.00 \$ 4,826.00 \$ 4,730.00 \$ 508.00 \$ 541.00 \$ 788.00 \$ 3,225.00 \$ 49.00 \$ 131.00 \$ 2,693.00 \$ 541.00
s s s s s s s s s s s s s s s s s s s	TBAS054 TBAS056 TBAS057 TBAS058 TBAS060 TBAS061 TBAS062 TBAS063 TBAS064 TBAS067 100 - Receive-only Softw TBAS051-R0 TBAS054-R0 TBAS057-R0 TBAS057-R0	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94) SFE P25 Base Enc & Key Loading SFE Key - P25 AES Enc (TB91) SFE Digital Fixed Station Interface SFE Key - Central Voter (TB91/94) (TBAS067 prerequisite) SFE Key - Central Voter (TB91/94) SFE Key - Simulcast Enable (TB91/94) SFE Key - CSSI Connection (91) SFE Transceiver Networking (TB91/94) SFE P25 Common Air Interface (CAI) SFE Key - Analog Line SFE Key - P25 Trunking Operation SFE Key - SSR Key - P25 Trunking Operation SFE Key - P25 Base Encrp & Key Loading SFE Key - P25 Base Encrp & Key Loading	\$ 262.00 \$ 5,386.00 \$ 1,047.00 \$ 1,047.00 \$ 523.00 \$ 4,826.00 \$ 4,730.00 \$ 508.00 \$ 508.00 \$ 541.00 \$ 788.00 \$ 3,225.00 \$ 49.00 \$ 131.00 \$ 2,693.00 \$ 541.00
s s s s s s s s s s s s s s s s s s s	TBAS054 TBAS056 TBAS057 TBAS058 TBAS060 TBAS061 TBAS062 TBAS063 TBAS067 100 - Receive-only Softw TBAS051-R0 TBAS054-R0 TBAS057-R0 TBAS057-R0 TBAS057-R0 TBAS057-R0 TBAS057-R0 TBAS058-R0	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94) SFE P25 Base Enc & Key Loading SFE Key - P25 AES Enc (TB91) SFE Digital Fixed Station Interface SFE Key - Central Voter (TB91/94) (TBAS067 prerequisite) SFE Key - Central Voter (TB91/94) SFE Key - Simulcast Enable (TB91/94) SFE Key - CSSI Connection (91) SFE Transceiver Networking (TB91/94) SFE Transceiver Networking (TB91/94) SFE Vey - CSSI Connection (91) SFE Transceiver Networking (TB91/94) SFE Key - Analog Line SFE Key - Analog Line SFE Key - P25 Trunking Operation SFE Key - P25 Base Encrp & Key Loading SFE Key - P25 Base Encrp & Key Loading SFE Key - P25 AES Encryption	\$ 262.00 \$ 5,386.00 \$ 1,047.00 \$ 1,047.00 \$ 523.00 \$ 4,826.00 \$ 4,730.00 \$ 508.00 \$ 541.00 \$ 3,225.00 \$ 49.00 \$ 131.00 \$ 2,693.00 \$ 541.00 \$ 541.00 \$ 541.00
s s s s s s s s s s s s s s s s s s s	TBAS054 TBAS056 TBAS057 TBAS058 TBAS060 TBAS061 TBAS062 TBAS063 TBAS064 TBAS067 100 - Receive-only Softw TBAS051-R0 TBAS054-R0 TBAS057-R0 TBAS057-R0	SFE MDC1200 Signaling on Analog Line SFE P25 Trunking Operation (TB91/94) SFE P25 Base Enc & Key Loading SFE Key - P25 AES Enc (TB91) SFE Digital Fixed Station Interface SFE Key - Central Voter (TB91/94) (TBAS067 prerequisite) SFE Key - Central Voter (TB91/94) SFE Key - Simulcast Enable (TB91/94) SFE Key - CSSI Connection (91) SFE Transceiver Networking (TB91/94) SFE P25 Common Air Interface (CAI) SFE Key - Analog Line SFE Key - P25 Trunking Operation SFE Key - SSR Key - P25 Trunking Operation SFE Key - P25 Base Encrp & Key Loading SFE Key - P25 Base Encrp & Key Loading	\$ 262.00 \$ 5,386.00 \$ 1,047.00 \$ 1,047.00 \$ 523.00 \$ 4,826.00 \$ 4,730.00 \$ 508.00 \$ 508.00 \$ 541.00 \$ 788.00 \$ 3,225.00 \$ 49.00 \$ 131.00 \$ 2,693.00 \$ 541.00

	ltana O a da	Description	and the second
6	Item Code TBA40B2-PA00	Description Conventional Reciter 136-156M	List Price \$ 5,300.0
	TBA40B2-PA00 TBA40B3-PA00	Conventional Reciter 136-156M	\$ 5,300.0
	TBA40H1-PA00	Conventional Reciter 400-440M	\$ 5,300.0
	TBA40H2-PA00	Conventional Reciter 440-480M	\$ 5,300.0
	TBA40H3-PA00	Conventional Reciter 470-520M	\$ 5,300.0
	TBA40H4-PA00	Conventional Reciter 380-420M	\$ 5,300.0
	TBA40K4-PA00	Conventional Reciter 762-870M	\$ 5,300.0
	TBA40B2-PAC0	Conventional Reciter Enced 136-156M	\$ 5,300.0
	TBA40B3-PAC0	Conventional Reciter Enced 148-174M	\$ 5,300.0
	TBA40H1-PAC0	Conventional Reciter Enced 400-440M	\$ 5,300.
	TBA40H2-PAC0	Conventional Reciter Enced 440-480M Conventional Reciter Enced 470-520M	\$ 5,300.
	TBA40H3-PAC0 TBA40H4-PAC0	Conventional Reciter Enced 380-420M	\$ 5,300.
	TBA40H4-PAC0	Conventional Reciter Enced 380-420M	\$ 5,300.
	TBA40R4-PAC0	Base Station Trunking Reciter 136-156MHz	\$ 5,300.
	TBA40B3-PB00	Base Station Trunking Reciter 148-174MHz	\$ 5,300.
	TBA40H1-PB00	Base Station Trunking Reciter 400-440MHz	\$ 5,300.
	TBA40H2-PB00	Base Station Trunking Reciter 440-480MHz	\$ 5,300.
	TBA40H3-PB00	Base Station Trunking Reciter 470-520MHz	\$ 5,300.
	TBA40H4-PB00	Base Station Trunking Reciter 380-420MHz	\$ 5,300.
	TBA40K4-PB00	Base Station Trunking Reciter 762-870MHz	\$ 5,300.
	TBA50B2-PA00	Reciter Rx Only 136-156M	\$ 3,533.
	TBA50B3-PA00	Reciter Rx Only 148-174M	\$ 3,533.
	TBA50H1-PA00	Reciter Rx Only 400-440M	\$ 3,533.
	TBA50H2-PA00	Reciter Rx Only 440-480M	\$ 3,533.
	TBA50H3-PA00	Reciter Rx Only 470-520M	\$ 3,533.
	TBA50H4-PA00	Reciter Rx Only 380-420M	\$ 3,533.
	TBA50K4-PA00	Reciter Rx Only 762-870M	\$ 3,533.
	TBA50B2-PAC0	Reciter Rx Only Enced 136-156M	\$ 3,533.
	TBA-SP-R5B3PAC TBA50H1-PAC0	Reciter Rx Only Enced 148-174M Reciter Rx Only Enced 400-440M	\$ 8,617. \$ 3,533.
	TBA50H2-PAC0	Reciter Rx Only Enced 440-480M	\$ 3,533.
	TBA50H3-PAC0	Reciter Rx Only Enced 470-520M	\$ 3,533.
	TBA50H4-PAC0	Reciter Rx Only Enced 380-420M	\$ 3,533.
	TBA50K4-PAC0	Reciter Rx Only Enced 762-870M	\$ 3,533.
	TBA50B2-PB00	Trunking Reciter Receive only 136-156M	\$ 3,533.
	TBA50B3-PB00	Trunking Reciter Receive only 148-174M	\$ 3,533.
	TBA50H1-PB00	Trunking Reciter Receive only 400-440M	\$ 3,533.
	TBA50H2-PB00	Trunking Reciter Receive only 440-480M	\$ 3,533.
	TBA50H3-PB00	Trunking Reciter Receive only 470-520M	\$ 3,533.
	TBA50H4-PB00	Trunking Reciter Receive only 380-420M	\$ 3,533.
	TBA50K4-PB00	Trunking Reciter Receive only 762-870M	\$ 3,533.
39	9100 Spares - Spare Fro	ont Panels	
;	Item Code	Description	List Pric
	TBA-SP-F2130	TB8/TB9 Spare Front Pnl No Fans / Label	\$ 227.
	TBA-SP-F2132	TB81/TB91 Spare Front Panel 2xFans/Label	\$ 357.
	TBA-SP-F2135	TB8/TB9 Spare Front PnI PA Fan/No Label	\$ 303.
	TBA-SP-F2136	TB8/TB9 Spare Front PnI PMU Fan/No Label	\$ 357.
39	9100 Spares - Spare Co		
;			List-Drrie
-	Item Code	Description	List Pric
	TBA-SP-2060	TB8/TB9 Spare Multi Reciter Control Pnl	\$ 369.
	TB9100 - Auxiliary P	ower Cord	
;	Item Code	Description	List Pric
	TBAA04-05	TB81/TB91 Dual Chnl Aux Pwr Cbl 2way Kit	\$ 45.
ξC	9100 Spares - Power Ar		
_			
;	Item Code	Description	List Pric
	TBA70B1-0000	TB81/TB91 Power Amplifier 136-174M 5W	\$ 2,004
	TBA70H0-0000	TB81/TB91 Power Amplifier 380-520M 5W	\$ 2,004.
	TBA70K2-0000	TB81/TB91 Power Amplifier 762-870M 5W	\$ 2,004
	TBA80B1-0000	TB81/TB91 Power Amplifier 136-174M 50W	\$ 3,132.
	TBA80H0-0000	TB81/TB91 Power Amplifier 380-520M 50W	\$ 3,132.
	TBA80K2-0000	TB81/TB91 Power Amplifier 762-870M 50W	\$ 3,132.
	TBA90B1-0000	TB81/TB91 Power Amplifier 136-174M 100W	\$ 4,218.
	TBA90H0-0000 TBA90K2-0000	TB81/TB91 Power Amplifier 380-520M 100W TB81/TB91 Power Amplifier 762-870M 100W	\$ 4,218. \$ 4,218.

TB9100 Spares - Power Amplifiers (PA) - 12VDC

	100 Spares - Power An		Line D.
E/C	Item Code	Description	List Price
s	TBA71B1-0000	TB81/TB91 PowerAmp 136-174M 5W 12VDC	\$ 2,004.00
S	TBA71H0-0000	TB81/TB91 PowerAmp 380-520M 5W 12VDC	\$ 2,004.00
3	TBA71K2-0000	TB81/TB91 PowerAmp 762-870M 5W 12VDC	\$ 2,004.00
3	TBA81B1-0000	TB81/TB91 PowerAmp 136-174M 50W 12VDC	\$ 3,132.00
S	TBA81H0-0000	TB81/TB91 PowerAmp 380-520M 50W 12VDC	\$ 3,132.00
S	TBA81K2-0000	TB81/TB91 PowerAmp 762-870M 50W 12VDC	\$ 3,132.00
		nagement Units (PMU) - AC	
E/C	Item Code	Description	List Price
3	TBA30A0-0100	PMU, TB9000, AC Aux12	\$ 1,889.00
3	TBA30A0-0200	PMU, TB9000, AC Aux24	\$ 1,889.00
3	TBA30A0-0400	PMU, TB9000, AC Aux48	\$ 1,889.00
	100 Spares - Power Ma		
E/C	Item Code	Description	List Price
3 5	TBA3001-1100	PMU, TB9000, 12VDC Aux12V	\$ 1,889.00
	TBA3001-1200	PMU, TB9000, 12VDC Aux24V	\$ 1,889.00
5 5	TBA3001-1400	PMU, TB9000, 12VDC Aux48V	\$ 1,889.00
5	TBA3002-2100 TBA3002-2200	PMU, TB9000, 24VDC Aux12V	\$ 1,889.00
5	TBA3002-2200	PMU, TB9000, 24VDC Aux24V PMU, TB9000, 24VDC Aux48V	\$ 1,889.00 \$ 1,889.00
, ;	TBA3002-2400	PMU, TB9000, 48VDC Aux12V	\$ 1,889.00
, ;	TBA3004-4200	PMU, TB9000, 48VDC Aux12V	\$ 1,889.00
5	TBA3004-4400	PMU, TB9000, 48VDC Aux48V	\$ 1,889.00
		nagement Units (PMU) - ACDC	\$ 1,000.00
E/C		Description	List Driss
-/C 3	Item Code		List Price
5	TBA30A1-1100	PMU, TB9000, 12VACDC Aux12V	\$ 2,501.00
, ;	TBA30A1-1200	PMU, TB9000, 12VACDC Aux24V	\$ 2,501.00
5	TBA30A1-1400 TBA30A2-2100	PMU, TB9000, 12VACDC Aux48V PMU, TB9000, 24VACDC Aux12V	\$ 2,501.00
5	TBA30A2-2200	PMU, TB9000, 24VACDC Aux12V PMU, TB9000, 24VACDC Aux24V	\$ 2,501.00
5	TBA30A2-2400	PMU, TB9000, 24VACDC Aux48V	\$ 2,501.00
5	TBA30A4-4100	PMU, TB9000, 48VACDC Aux12V	\$ 2,501.00
S	TBA30A4-4200	PMU, TB9000, 48VACDC Aux24V	\$ 2,501.00
S	TBA30A4-4400	PMU, TB9000, 48VACDC Aux48V	\$ 2,501.00
TBS		nagement Units (PMU) Option Boards	
E/C	Item Code	Description	List Price
S.	TBA-SP-WDA1	Spare PMU Auxiliary Supply 12VDC 40W	\$ 245.00
s	TBA-SP-WDA1	Spare PMU Auxiliary Supply 24VDC 40W	\$ 245.00
5	TBA-SP-WDA2	Spare PMU Auxiliary Supply 48VDC 40W	\$ 245.00
			φ 245.00
72	5 Digital Dase Sta	ition - Accessories	
TB9	9100 - Mic		
E/C	Item Code	Description	List Price
5	T02-00005-AAAC	Standard Microphone	\$ 80.00
TBS	9100 - Adaptor Front Pa	nel	
E/C	Item Code	Description	List Price
S	TBA60C0	TB9100 Adaptor Front Panel 1U RJ45	\$ 265.00
5	TBA60C2	TB9100 Adaptor Front Panel 10 RJ45 2 Shrt RJ4	\$ 205.00
			\$ 210.00
	100 - Coaxial Relay As		
E/C	Item Code	Description	List Price
S	TBAA03-15	TB91 Relay Coax Assembly + Mounting Brkt	\$ 640.00
TBS	100 - Programming		
E/C	Item Code	Description	List Price
S S	TBA0P20	TB9100 Crossover & Audio Cables	\$ 103.00
	100 - Power Cords	133100 Grossover & Audio Gables	\$ 103.00
E/C	Item Code	Description	List Price
S	T952-340	Mains Power Lead/CAN IEC	\$ 27.00
	100 - Support Brackets	& Handles	
E/C	Item Code	Description	List Price
S	TBAA03-13	TB8000/9000 Auxiliary Support Bracket	\$ 35.00

TB9100 - Cabinets - (Crate must be ordered separately \$500)

E/C	Item Code	Description	List Price
s	T-C08U19L-00	Cab 8U 19" 600x600mm Front & Rear Doors - (crate not included, must order 1 crate per cabinet)	\$ 1,817.0
3	T-C12U19L-00	Cab 12U 19" 600x600mm Front & Rear Doors - (crate not included, must order 1 crate per cabinet)	\$ 2,256.0
3	T-C25U19L-00	Cab 25U 19" 600x600mm Front & Rear Doors - (crate not included, must order 1 crate per cabinet)	\$ 2,454.0
3	T-C38U19L-00	Cab 38U 19" 600x600mm Front & Rear Doors - (crate not included, must order 1 crate per cabinet)	\$ 2,785.0
s	T-C45U19L-00	Cab 45U 19" 600x600mm Front & Rear Doors - (crate not included, must order 1 crate per cabinet)	\$ 2,956.0
TB9	100 - Service Kit		
	100 - Service Kit	Description	List Price
E/C		Description BaseStation Calibration Test Unit & Cord	List Price \$ 1,700.0
E/C	Item Code		\$ 1,700.0
E/C S S	Item Code TBA0STU	BaseStation Calibration Test Unit & Cord	\$ 1,700.0
E/C S	Item Code TBA0STU TBA0ST2	BaseStation Calibration Test Unit & Cord	\$ 1,700.0

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TN9400 Radio Networks – P25

TaitNet P25 Systems (Trunked Phase 1 & Phase 2)

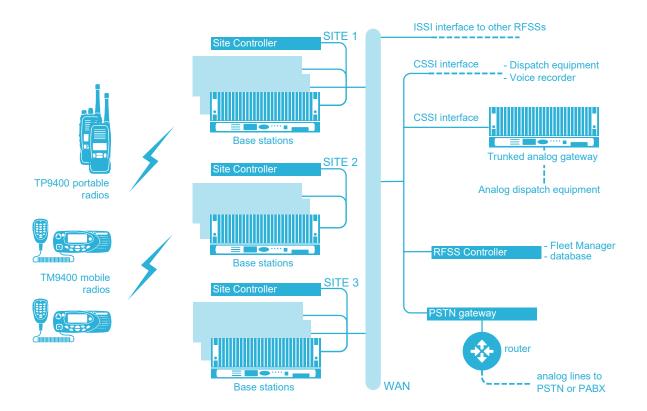


TaitNet P25 Phase1 or Phase2

Overview

The TN9400 P25 trunked network is an IP-based digital system specifically designed to provide P25 compliant mission-critical communications.

Its design is highly flexible and scalable, allowing Public Safety and Public Service users to deploy a cost-effective infrastructure that meets their mobile communication needs now and into the future.



P25 Phase1/Phase2 Operation

Tait P25 Systems are available in either mode of operation: P25 Phase1 or P25 Phase 2.

Phase2 introduces TDMA, in addition to Phase1 FDMA, therefore when purchasing a Phase2 system all Phase1 and Phase2 enable licences are required.

Enhanced simulcast coverage with Linear Simulcast Mode (LSM)

Simulcast trunking combines the benefits of maximum simulcast coverage with the frequency efficiency of trunking – a double win. An additional choice is to transmit in LSM, which significantly increases the maximum geographic spacing between simulcast sites with the benefit being that some sites can be eliminated.

When purchasing a Phase2 Simulcast system, Phase1 LSM is highly recommended as Phase1 C4FM Simulcast is not as efficient.

Note: LSM requires use of the TB9400

Issued: 08/31/20

Redundancy

- Continuity of operation is paramount and a Tait P25 trunking system is designed to operate through many possible outage scenarios. High Availability ensures that your fleet registration information is constantly maintained in a reserve Radio Frequency Subsystem (RFSS) server for use if the primary server should ever fail. A "hot-standby" ensures a rapid and near seamless change over.
- Additional redundancy occurs as a result of sites being able to operate in an "isolated site" trunking mode, should the network connection to a site become disconnected.

Scalable networks

A TaitNet P25 trunking system may be scaled up or down depending on your coverage needs – for many sites or few sites, high or low site capacity, simulcast trunking or not.

Standardized Interconnections

Tait support for open standards enables choice and flexibility for our customers. This is demonstrated with support for consoles being via the standardized Console Subsystem Interface (CSSI).

TaitNet P25 Trunked Access for Single Site System

Overview

The P25 Trunked Access TN9400 Solution corresponds to a P25 Trunked Single Logical Site system, with both RFSS and Site Controller applications located in a single server (Mid-Level Dell R230 server). This server is also used in a High Availability redundant configuration to ensure the system critical communication fundamental redundancy requirement.

In simulcast, the P25 Access system can be composed of one logical site and multiple physical sites.

A specific P25 Access software operating licence is enabling this type of solution (TNAS521).

Initial limitation of the first release P25 Access R1.0

If you customer need is beyond these indicative limits, please contact the Product Manager.

- System capacity: 15 channels (i.e. 5 sites, 3 channels or 1 site, 15 channels).
- CSSI connections: 2
- No ISSI connections
- No multi-agencies

Features and scalability

- The P25 Access software is common with the full standard P25 main stream software. Therefore, any migration to P25 full standard is a pure software upgrade.
- It also means that all features are applicable, within the limitations mentioned above.
- > The P25 Access solution is capable to operate in P25 Trunked Phase1 and Phase2 and LSM simulcast.
- It is designed as a smart, simple and cost effective step into P25 Trunking.
- > It is made easy to install, maintain and operate with a guaranteed future path to greater larger systems.

NOTE: Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.

	TN9400 Product Codes for Commercial Ordering	Edition: 06
Controllers	Licences	Power Cords
RFSS Controller Options	Tn9400 Licence Options	Power Cord Cable Options
Stand Alone RFSS T01-00023-BAAA TND P25 - RFSS Controller SA AC Standard High Availability RFSS T01-00023-AAAA TND P25 - RFSS Controller SA 48VDC Standard High Availability RFSS T01-00023-AAAA TND P25 - RFSS Controller HA AC Standard T01-00023-ABAA TND P25 - RFSS Controller HA AC Standard T01-00023-ABAA TND P25 - RFSS Controller HA 48VDC Standard Site Controller Options Stand Alone Site T01-00024-BAAA TND P25 - Site Controller SA AC Standard T01-00024-BAAA TND P25 - Site Controller SA AC Standard T01-00024-BAAA TND P25 - Site Controller HA AC Standard T01-00024-ABAA TND P25 - Site Controller HA AC Standard T01-00024-ABAA TND P25 - Site Controller HA AC Standard T01-00024-ABAA TND P25 - Site Controller HA AC Standard T01-00024-ABAA TND P25 - Site Controller HA AC Standard T01-00024-ABAA TND P25 - Site Controller AC Standard Maccess RFSS, Site Controller and High Availability Option TN9400110100000000 TND P25 - Access RFSS & Site & H/A Controller AC PSTN Gateways T01-00027-BAAA T01-00027-BAAA TND P25 - PSTN Gateway SA AC Standard T0	RFSS Controller Licence TNAS500 Licence TaitNet P25 - RFSS Controller Stand Alone TNAS501 Licence TaitNet P25 - RFSS Controller High Availability TNAS502 Licence TaitNet P25 - CRSS Console System TNAS506 Licence TaitNet P25 - CSSI Console System TNAS506 Licence TaitNet P25 - ISSI Voice Recorder TNAS506 Licence TaitNet P25 - ISSI Intra System Phase 1 TNAS516 Licence TaitNet P25 - System Transceiver Resource TNAS519 Licence TaitNet P25 - Site Controller Stand Alone Phase 1 TNAS510 Licence TaitNet P25 - Site Controller Stand Alone Phase 1 TNAS510 Licence TaitNet P25 - Site Controller Stand Alone Phase 1 TNAS511 Licence TaitNet P25 - Site Controller Stand Alone Phase 1 TNAS512 Licence TaitNet P25 - Site Controller Stand Alone Phase 2 TNAS513 Licence TaitNet P25 - Site Controller Stand Alone Phase 2 TNAS513 Licence TaitNet P25 - Site Controller Stand Alone Phase 2 TNAS514 Licence TaitNet P25 - Site Controller Stand Alone Phase 2 TNAS514 Licence TaitNet P25 - Simulcast Site Controller Phase 2 Access RFSS and Site Controller and High Availability Licence TNAS521 Licence TaitNet P25 - Access PSTN and Anal	IEC Cables 219-03234-00 Power Cord Cable 1M IEC(Female) to IEC(Male) 219-03235-00 Power Cord Cable 2M IEC(Female) to IEC(Male) 219-03236-00 Power Cord Cable 3M IEC(Female) to IEC(Male)
	h x2 Sites with x4 Channel each and Single Trunke	ed PSTN Gateway AC in Cabinet configuration
Stand Alone RFSS T01-00023-BAAA TND P25 - RFSS Controller SAAC Standard x1 Stand Alone Site T01-00024-BAAA TND P25 - Site Controller SAAC Standard x2 Stand Alone PSTN T01-00027-BAAA TND P25 - PSTN Gateway SAAC Standard x1	RFSS Controller Licence x1 TNAS500 Licence TaitNet P25 - RFSS Controller Stand Alone x1 TNAS516 Licence TaitNet P25 - System Transceiver Resource x8 Site Controller Licence TNAS510 Licence TaitNet P25 - Site Controller Stand Alone Phase 1 x2 PSTN Gateway Licence TNAS515 Licence TaitNet P25 - Trunked PSTN Gateway Service x1	IEC Cables 219-03235-00 Power Cord Cable 2M IEC(Female) to IEC(Male) x4
	01 September 2016	Doc ID: 484

Network Equipment & Licenses

Note: For more configuration options, please refer to the TN9400 configuration table on page 6.1-4.

ITEM CODE	DESCRIPTION
Hardware RFSS - AC	
T01-00023-AAAA	TND P25 RFSS Controller HA AC Standard
T01-00023-BAAA	TND P25 RFSS Controller SA AC Standard
Hardware RFSS - DC	
T01-00023-BBAA	TND P25 RFSS Controller SA 48V DC Standard
T01-00023-ABAA	TND P25 RFSS Controller HA 48V DC Standard
Hardware Site Controller - AC	
T01-00024-AAAA	TND P25 Site Controller HA AC Standard
T01-00024-BAAA	TND P25 Site Controller SA AC Standard
Hardware Site Controller - DC	
T01-00024-ABAA	TND P25 Site Controller HA 48V DC Standard
T01-00024-BBAA	TND P25 Site Controller SA 48V DC Standard
TN940011010000000	TND P25 Access RFSS and Site Controller
Software Licenses	
TNAS500	License TaitNet P25 - RFSS Controller
TNAS501	License TaitNet P25 - RFSS Controller High Availability
TNAS502	License TaitNet P25 - Enable IP
TNAS505	License TaitNet P25 - CSSI Console System
TNAS506	License TaitNet P25 - CSSI Voice Recorder
TNAS507	License TaitNet P25 - ISSI Intra System
TNAS509	License TaitNet P25 - Trunked Analog Gateway
TNAS510	License TaitNet P25 - Site Controller Phase 1
TNAS511	License TaitNet P25 - Simulcast Site Controller Phase 1
TNAS512	License TaitNet P25 - Site Controller High Availability
TNAS515	License TaitNet P25 - Trunked PSTN Gateway Service
TNAS516	License TaitNet P25 - System Transceiver Resource (TEMA & TAM only)
TNAS517	License TaitNet P25 - Receiver Only Resource
TNAS521	License TaitNet P25 - Access RFSS Site Controller and High Availability

Software maintenance and support is available on an annual renewal basis. Software maintenance ensures your software investment remains fully operational, high performing and current through updates that also include valuable new features – please contact your L3Harris Representative for further details.

P25 • CORE NETWORK INFRASTRUCTURE

	TaitNet Network Lic	Edition: 0
P25 (TN9400) em Code (RFSS Node Controller)	Description	Rules of Engagment
AS500 - RFSS Controller	The RFSS controller software runs on a rack-mounted server. It is the central controller for the whole TN8400 trunked network. Using the database, it checks whether an SU is permitted to register on the network. When an SU makes a call request, it checks whether the SU is authorized to make the call and determines where the destination SU(s) are located before setting up the call and withing voice packets to their destination SU(s) are located before.	One TNAS500 required per RFSS Service in the system
AS501 - RFSS Controller High Availability	TN9400 P25 trunked networks with Tait controllers enhance their availability by having controllers that consist of a cluster of two servers. If one server fails, the other takes over. Server clusters are highly recommended for the RFSS controller.	One TNAS501 required per HA Cluster in the system configured in a high availability configuration. Can not be purchased independently of TNAS500, though can be purchased later when an existing system (already with TNAS500) adds a high availability option.
IAS502 - EnableIP	A TNAS502 licence enables IP data to pass across a Trunked P25 network. This licence supports functionality within EnableProtect, EnableFleet and AVL systems	One TNAS500 or TNAS501 licence is required. One per P25 System*.
AS505 - CSSI Console System	The CSSI interface is for connecting to dispatch equipment and a PSTN gateway for connecting to a PBX and/or to the PSTN.	One TNAS505 CSSI connection required per console sub system. Note that a console sub-system may handle multiple dispatch seats.
AS506 - ISSI Voice Recorder	The ISSI interface is for connecting to Voice Recorder equipment.	One TNAS506 ISSI connection required per Voice recorder sub-system. Note that a voice recorder sub-system may handle multiple talkpaths.
S507 - ISSI Intra System	An RFSS must have the feature license TNAS507 to enable the ISSI interface between RFSSs with the same WACN ID and system ID. This enables a connection to another RFSS to extend the size of the network.	One TNAS507 licence required per RFSS requiring interconnection to another RFSS via the ISSI protocol. This licence enables the capability for ISSI to work between RFSS's. There is no need to have multiple ISSI licenses when connecting multiple RFSS's together, (eq one RFSS needing 4 x TNAS507 licenses)
AS509 - Trunked Analog Gateway	An RFSS must have the feature license TNAS509 to enable each TAG that access the TN9400 trunked network.	One TNAS509 licence required per TAG.
8515 - Trunked PSTN Gateway Service 8516 - System Transceiver Resource (TAM & TEMA only)	A TNAS515 licence is require to enable a CSSI interface to a PSTN gateway for connecting a PEX and/or a PSTN telephone network. A TNAS516 licence is require for each reciter attached to the network. (TAM & TEMA only)	One TNAS515 required per PSTN G/W Server. Currently only 1 PSTN line available via the Cisco FXO card.(Note - this is not licensed per PSTN line) One TNAS516 licence required per reciter in the system that forms part of a physical RE channel
S521 - Access	The P25 Access Phase 1 allows both the RFSS and the Site controller applications to run on one rack-mounted server and High Availability.	One TNAS521 licence required per P25 Access Phase 1 single Site system. In a simulcast system a logical single Site is composed of multiple physical Sites.
S523 - RFSS OTAP	An RFSS must have the feature license TNAS523 to enable OTAP across the TN9400 Trunked network.	One TNAS523 RFSS OTAP licence required.
		* A P25 system is defined as a trunked site linked to one RFSS or RFSS H/A Cluster
em Code (Site Controller)	Description	Rules of Engagment
4AS510 - Site Controller Phase 1	Each Non-simulcast site in the TN9400 P25 trunked network needs a TNAS510 site controller phase 1 licence. Like the RFSS controller, it consists of a rack-mounted server running Tait site controller software. The site controller monitors each of the channels at the site, processes SU control signalling (such as location registrations and call requests), and allocates channels to calls. It provides a constant stream of signalling to the control channel for broadcasting to SUs in its coverage area, providing them with information about current calls, system status and adjacent sites.	One TNAS510 licence required per site controller server.
IAS511 - Simulcast Site Controller Phase 1	An Phase 1 Simulcast licence (simultaneous broadcasting) with FDMA support is the simultaneous transmitting by multiple base station/repeaters of the same signal on the same frequency. This makes it possible to extend the coverage of a single frequency pair to a very wide area.	One TNAS511 licence required per Phase 1 site controller to extend the coverage of a site. Per default this licence enables Phase 1 C4FM simulcast or LSM simulcast.
IAS512 - Site Controller High Availability	High Availability is a mode of operation where two servers are available to perform the function of a single logical server. If one of the server's hardware and/or software fails, the other server takes over the role and function of the failed server.	One TNAS512 licence required per site controller server requiring High Availability. Can not be purchased independent of either a TNAS510 or TNAS511 licence unless being purchased as an enhancement to an existing TN9400 system.
AS513 - Site Controller Phase 2 Support	This licence enables the site controller to operate in P25 Phase 2 mode.	One TNAS510 licence is required as a prerequisite.
S514 - Simulcast Site Controller Phase 2 Support	An Phase 2 Simulcast licence (simultaneous broadcasting) with TDMA support is the simultaneous transmitting by multiple base station/repeaters of the same signal on the same frequency. This makes it possible to extend the coverage of a single frequency pair to a very wide area.	One TNAS514 licence required per Phase 2 site controller to extend the coverage of a site. This licence enables the specific DQPSK Phase 2 simulcast, when operating in Phase 2 mode.

Issued: 08/31/20

https://premier.pspc.harris.com/infocenter

P25 • CORE NETWORK INFRASTRUCTURE



All prices are subject to the then current L3Harris Corporation Communications System Domestic Standard Conditions of Sale and are subject to change without notice.

Master Price List (USD)

Company Proprietary and Confidential

P25 Digital Network Infrastructure - TN9400

TN9400 - P25 Access System

Preferred choice for designs involving one (1) functional site (i.e. one simulcast or a single site).

E/C	Item Code	Description	List Price
S	TN940011010000000	Server, TN9400, P25 RFSS + SC, Mid-Level, AC	\$ 6,039.00
s	TN940040010000000	Server, TN9400, P25 PSTN, High Level, AC	\$ 17,839.00
s	TN940040020000000	Server, TN9400, P25 PSTN, High Level, DC	\$ 17,839.00
TN9	400 - P25 Express6 Syste	em	
Preferr	ed choice for designs involving up to six	(6) functional sites. A single simulcast cell is considered one functional site.	
E/C	Item Code	Description	List Price
s	TN940011010000000	Server, TN9400, P25 RFSS + SC, Mid-Level, AC	\$ 6,039.00
s	TN940001000000000	Server, TN9400, P25 RFSS+SC, High Level, AC	\$ 22,289.00
s	TN940002000000000	Server, TN9400, P25 RFSS+SC, High Level, DC	\$ 22,289.00
s	TN940030010000000	Server, TN9400, P25 SC, High Level, AC	\$ 17,839.00
s	TN940030020000000	Server, TN9400, P25 SC, High Level, DC	\$ 17,839.00
s	TN940031010000000	Server, TN9400, P25 SC, Mid-Level, AC	\$ 6,039.00
s	TN940040010000000	Server, TN9400, P25 PSTN, High Level, AC	\$ 17,839.00
s	TN940040020000000	Server, TN9400, P25 PSTN, High Level, DC	\$ 17,839.00
TN9	400 - P25 Full System		
	•	(6) functional sites. A single simulcast cell is considered one functional site.	
E/C	Item Code	Description	List Price
s	TN940020010000000	Server, TN9400, P25 RFSS, High Level, AC	\$ 22,289.00
S	TN940020020000000	Server, TN9400, P25 RFSS, High Level, DC	\$ 22,289.00
S	TN940030010000000	Server, TN9400, P25 SC, High Level, AC	\$ 17,839.00
S	TN940030020000000	Server, TN9400, P25 SC, High Level, DC	\$ 17,839.00
S	TN940040010000000	Server, TN9400, P25 PSTN, High Level, AC	\$ 17,839.00
S	TN940040020000000	Server, TN9400, P25 PSTN, High Level, DC	\$ 17,839.00
DO	Digital Notwork Ir	fractructura Software Feature Options	
		frastructure - Software Feature Options	
	400 - Software Licenses		
E/C	Item Code	Description	List Price
S	TNAS500	License, P25T, RFSS Controller	\$ 35,900.00
S S	TNAS501 TNAS502	License, P25T, RFSS Controller HA License, P25T, RFSS Enable IP and OTAP	\$ 17,950.00 \$ 829.00
S	TNAS502	License, P25T, CSSI Console System	\$ 9,598.00
S	TNAS506	License, P25T, CSS Voice Recorder	\$ 2,857.00
S	TNAS507	License, P25T, ISSI Intra System	\$ 12,631.00
S	TNAS509	License, P25T, Trunked Analog Gtwy	\$ 2,857.00
S	TNAS510	License, P25T, Site Controller Phase 1	\$ 16,911.00
S S	TNAS512	License, P25T, Site Controller HA	\$ 5,983.00
S	TNAS513 TNAS515	License, P25T, Site Controller Phase 2 License, P25T, Trunked PSTN Gtwy	\$ 8,456.00 \$ 11,426.00
S	TNAS515	License, P25T, System Transceiver Resrc	\$ 2,742.00
S	TNAS521	License, P25T, Access RFSS + SC HA	\$ 31,113.00
S	TNAS524	License, P25T, Express6 RFSS + SC HA	\$ 40,447.00
S	TNAS525	License, P25T, Express6, SC HA	\$ 14,881.00

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TN9100 P25 Gateway Network Infrastructure



Step One (1 of 5) – Select a gateway chassis					
E/C	Model Number	Description	List Price		
Option 1 –	Option 1 – Gateway Multi-Channel with PMU option Chassis (Maximum x5 Channels)				
S	TBA2645	Subrack Multi Rctr Max 5 Chls	\$1,399.00		
Option 1 –	Option 1 – Gateway Multi-Channel without PMU option Chassis (Maximum x7 Channels)				
S	TBA2647	Subrack Multi Rctr Max 7 Chls	\$1,399.00		

TN9100

Step Two (2 of 5) – Select Console Gateway or Trunked Analog Gateway Options				
E/C	Model Number	Description	List Price	
Console Gateway Options				
S	TBA50H2-PAC1	P25 Console Gateway Reciter DES	\$4,508.00	

A maximum of x5 Gateways Channel can be selected with the PMU chassis option and x7 maximum for no PMU chassis option. Please repeat this option/step for each Gateway hardware as required.

Trunked Analog Gateway Option			
S	TBA50H2-PBC1	P25 Trunked Analog Gateway Reciter DES	\$4,721.00

A maximum of x5 Gateways Channel can be selected with the PMU chassis option and x7 maximum for no PMU chassis option. Please repeat this option/step for each Gateway hardware as required.

TN9100

Step Th	Step Three (3 of 5) – Select Power Management Unit option based on power input				
E/C	Model Number	Description	List Price		
DC Opti	DC Options – PMU 12VDC				
S	TBA3001-1100	PMU, TB9000, 12VDC Aux12V	\$1,889.00		
S	TBA3001-1200	PMU, TB9000, 12VDC Aux24V	\$1,889.00		
S	TBA3001-1400	PMU, TB9000, 12VDC Aux48V	\$1,889.00		
DC Opti	ons – PMU 24VDC		·		
S	TBA3002-2100	PMU, TB9000, 24VDC Aux12V	\$1,889.00		
S	TBA3002-2200	PMU, TB9000, 24VDC Aux24V	\$1,889.00		
S	TBA3002-2400	PMU, TB9000, 24VDC Aux48V	\$1,889.00		
DC Opti	ons – PMU 48VDC				
S	TBA3004-4100	PMU, TB9000, 48VDC Aux12V	\$1,889.00		
S	TBA3004-4200	PMU, TB9000, 48VDC Aux24V	\$1,889.00		
S	TBA3004-4400	PMU, TB9000, 48VDC Aux48V	\$1,889.00		

AC Options – PMU			
S	TBA30A0-0100	PMU, TB9000, AC Aux12	\$1,889.00
S	TBA30A0-0200	PMU, TB9000, AC Aux24	\$1,889.00
S	TBA30A0-0400	PMU, TB9000, AC Aux48	\$1,889.00

Mains Power	Mains Power Cable		
S	219-01561-00	Cable, PMU IEC, 6.5ft	\$13.00

AC/DC Options – PMU 12VDC				
S	TBA30A1-1100	PMU, TB9000, 12VACDC Aux12V	\$2,501.00	
S	TBA30A1-1200	PMU, TB9000, 12VACDC Aux24V	\$2,501.00	
S	TBA30A1-1400	PMU, TB9000, 12VACDC Aux48V	\$2,501.00	
AC/DC Opti	AC/DC Options – PMU 24VDC			
s	TBA30A2-2100	PMU, TB9000, 24VACDC Aux12V	\$2,501.00	
S	TBA30A2-2200	PMU, TB9000, 24VACDC Aux24V	\$2,501.00	
S	TBA30A2-2400	PMU, TB9000, 24VACDC Aux48V	\$2,501.00	

TN9100

E/C	Model Number	Description	List Price	
AC/DC Opti	AC/DC Options – PMU 48VDC			
S	TBA30A4-4100	PMU, TB9000, 48VACDC Aux12V	\$2,501.00	
S	TBA30A4-4200	PMU, TB9000, 48VACDC Aux24V	\$2,501.00	
S	TBA30A4-4400	PMU, TB9000, 48VACDC Aux48V	\$2,501.00	

Mains Pow	Mains Power Cable				
S	219-01561-00	Cable, PMU IEC, 6.5ft	\$13.00		

TN9100

Step four (4 of 5) – Select Software Feature Enablers based on the configuration needed				
E/C	Model Number	Description	List Price	
Option 1 – Console Gateway Enablers				
S	TBAS054	SFE - MDC1200 Signalling on Analog Line	\$262.00	
S	TBAS058	SFE - AES Encryption	\$1,047.00	
S	TBAS060	SFE - Digital Fixed Station Interface	\$523.00	

A maximum of x5 (PMU option) or x7 (without PMU option) Software Feature Enablers can be requested per Gateway configuration. Please repeat this option/step for each Gateway hardware as required.

Option 2 –	Option 2 – Trunked Analog Gateway Enablers				
S	TBAS054	SFE - MDC1200 Signalling on Analog Line	\$262.00		
S	TBAS058	SFE - AES Encryption	\$1,047.00		

A maximum of x5 (PMU option) or x7 (without PMU option) Software Feature Enablers can be requested per Gateway configuration. Please repeat this option/step for each Gateway hardware as required.

Step four (5 of 5) – Select any additional standalone accessories desired				
E/C	Model Number	Description	List Price	
S	TBAA03-13	Auxiliary Support Bracket, TB8/9	\$35.00	
S	TBAA03-16	Carrying Handles, TB8/9	\$43.00	

TP9500

TP9500 DMR Portable Radio



The TP9500 portables offer trunked DMR operation (DMR Tier 3) as well as conventional DMR operation (DMR Tier 2), full MPT 1327, and conventional FM functionality in one device. Designed for ease of use, this DMR portable features intuitive controls and a color screen for enhanced usability. Active noise cancellation and suppression technologies reduce background sounds while enhancing voice transmissions, ensuring users have loud and clear audio.

Each radio comes with the following features as standard:

- MPT Trunking
- GPS Hardware/Location Services
- Bluetooth[®]
- Voice Annunciations
- Enhanced Location Reporting
- DMR Conventional
- ARC4 Encryption
- Alphanumeric ID
- DMR OTAP capability*
- WiFi[®] OTAP capability*

*Requires EnableFleet

E/C	Model Number	Description	List Price
an antenna	, , , , , , , , , , , , , , , , , , , ,	body based on the nequency band and keypad	type. Then, select
Stop Ope (1 of 4) – Soloct one (1) radio	b body based on the frequency band and keypad	type Then select

VHF (136-174 MHz) – SCAN (4-Key)			
S	TP9555B1BC-H	Portable, TP9500, 136-174M, Scn, Blk	\$983.00

VHF (136-17	VHF (136-174 MHz) – SYSTEM (16-Key)			
S	TP9560B1BC-H	Portable, TP9500, 136-174M, Sys, Blk	\$1,055.00	

TP9500

E/C	Model Number	Description	List Price	
VHF Antenna Options				
S	TPA-AN-001	Antenna, 136-225MHz, Hel Tun	\$22.00	
S	TPA-AN-002	Antenna, 136-151MHz, Hel	\$22.00	
S	TPA-AN-003	Antenna, 150-162MHz, Hel	\$22.00	
S	TPA-AN-004	Antenna, 162-174MHz, Hel	\$22.00	
S	TPA-AN-034	Antenna, 136-174MHz, Hel	\$30.00	

UHF-L (378 ·	UHF-L (378 – 470 MHz) – SCAN (4-Key)			
S	TP9555HKBC-H	Portable, TP9500, 378-470M, Scn, Blk	\$983.00	

UHF-L (378 -	UHF-L (378 – 470 MHz) – SYSTEM (16-Key)				
S	TP9560HKBC-H	Portable, TP9500, 378-470M, Sys, Blk	\$1,055.00		

UHF-L Antenna Options				
S	TPA-AN-037	Antenna, 378-470MHz, 1/4 Wave Whip	\$22.00	
S	TPA-AN-038	Antenna, 378-470MHz, Hel	\$22.00	
S	TPA-AN-011	Antenna, 400-470MHz, Whip	\$22.00	
S	TPA-AN-013	Antenna, 400-470MHz, Hel	\$22.00	

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E/C	Model Number	Description	List Price	
UHF-H (450 – 520 MHz) - SCAN (4-Key)				
S	TP9555H7BC-H	Portable, TP9500, 450-520M, Scn, Blk	\$983.00	

UHF-H (450	UHF-H (450 – 520 MHz) – SYSTEM (16-Key)			
S	TP9560H7BC-H	Portable, TP9500, 450-520M, Sys, Blk	\$1,055.00	

UHF-H Ante	UHF-H Antenna Options				
S	TPA-AN-012	Antenna, 450-520MHz, Whip	\$22.00		
S	TPA-AN-015	Antenna, 450-520MHz, Hel	\$22.00		

700/800 MHz	700/800 MHz (762 – 870 MHz) - SCAN (4-Key)			
S	TP9555K5BC-H	Portable, TP9500, 762-870M, Scn, Blk	\$983.00	

700/800 MHz (762 – 870 MHz) - SYSTEM (16-Key)				
S	TP9560K5BC-H	Portable, TP9500, 762-870M, Sys, Blk	\$1,055.00	

700/800 Antenna Options				
S	TPA-AN-022	Antenna, 762-870MHz, 1/2 Wave Whip	\$22.00	
S	TPA-AN-028	Antenna, 762-870MHz, Hel	\$22.00	

Step Two (2 of 4) – Select one battery and one charger				
E/C	Model Number	Description	List Price	
Battery Options				
S	T03-00011-AAAA	Battery, Li-Ion 1880mAh	\$93.00	
S	T03-00011-ABAA	Battery, Li-Ion 1880mAh w/ Belt Clip	\$104.00	
S	T03-00011-CAAA	Battery, Li-Ion 2400mAh	\$114.00	
S	T03-00011-CBAA	Battery, Li-lon 2400mAh w/ Belt Clip	\$125.00	
S	TPA-CA-201	Belt Clip 55mm	\$11.00	
S	TPA-CA-207	Belt Loop for D-Clip 75mm	\$20.00	
S	TPA-CA-208	Belt Clip Adaptor for 55mm	\$16.00	

Charger Options				
S	T03-00012-AAFA	Charger Single Fast Li-Ion No plug pack	\$66.00	
S	T03-00012-AEFA	Charger, Single Bay, Li-Ion w/ plug pack	\$83.00	
S	T03-00013-AEDA	Charger, Multi Bay, Li-Ion w/ cable	\$805.00	
S	T03-00013-AADA	Charger Multi Li-Ion No cable	\$765.00	
S	009-00017-01	PSU Plug Pack 12V 2A US	\$17.00	
S	219-01561-00	Cable, PMU IEC, 6.5ft	\$13.00	

TP9500

\$120.00

Step T	Step Three (3 of 4) – Radio body above comes in standard Analog mode. If desired, select an operating mode and any additional add on software feature options.					
E/C	Model Number	Description	List Price			
System	System Enablers – Software Features					
S	TPAS080	SFE - DMR Trunking	\$200.00			
Encryp	tion – Software Features					
S	TPAS058-DMR	SFE - DMR AES Encryption	\$200.00			
S	TPAS095	SFE – DES Encryption	\$53.00			
Data Enablers – Software Features						
S	TPAS056-DMR	SFE - User IP Data	\$137.00			
S	TPAS107	SFE -Embedded GPS Interface	\$50.00			

Software maintenance and support is available on an annual renewal basis. Software maintenance ensures your software investment remains fully operational, high performing and current through updates that also include valuable new features – please contact your L3Harris Representative for further details.

SFE - Geofencing Services

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TPAS105-DMR

Step Four (4 of 4) – Select any additional accessories desired				
E/C	Model Number	Description	List Price	
Vehicle	Charger Options			
S	T03-00014-BAAB	Charger, Vehicle	\$385.00	
S	T03-00014-AAAA	Charger, Vehicle, Battery Only, TP9000	\$158.00	
Speake	r Microphones			
S	T03-00045-JFAC	SpkrMic, Evolution, E-Button, 2.5mm	\$186.00	
S	T03-00045-KFAC	SpkrMic, Storm, E-Button, 2.5mm, IP68	\$215.00	

S	T03-00045-KFAC	SpkrMic, Storm, E-Button, 2.5mm, IP68	\$215.00
S	T03-00045-DMAC	SpkrMic, Genesis, E-Button, IP68	\$279.00
S	T03-00045-ERAA	Spkr Mic Light-Weight 3.5mm-Jack	\$63.00
S	T03-00045-FRAA	Spkr Mic Medium-Weight 3.5mm-Jack	\$67.00

Audio Acce	Audio Accessories – Headsets				
S	T03-00046-FAAB	Headset, Heavy-Duty Overhead	\$607.00		
S	T03-00046-FEAB	Headset, Heavy-Duty Behind-Head	\$607.00		
S	T03-00046-GEAA	Headset, Hurricane II Behind Head	\$571.00		

Audio Accessories – Surveillance Kits			
S	T03-00047-AAAA	Kit, 2-Wire Surveillance	\$233.00

Audio Accessories – Ear Pieces			
S	T03-00053-0451	Earphone In-Ear 2.5mm	\$69.00
S	T03-00120-AAAD	Eartube In-Ear 2.5mm	\$20.00
S	T03-00120-BAAD	Earhook 2.5mm	\$12.00
S	T03-00120-FAAD	Eartube Earhook 2.5mm	\$20.00
S	T03-00120-GAAD	Earhook Transparent Hi-Vol 2.5mm	\$12.00
S	T03-00120-HAAD	Earphone Transparent D-Ring Hi-Vol 2.5mm	\$12.00
S	T952-055	Erhanger 2.5mm	\$39.00

E/C	Model Number	Description	List Price	
Carrying Ca	Carrying Case - Leather			
S	T03-00079-0001	Case Hvy Duty Lther DStud BLoop TP95/96	\$73.00	
S	T03-00079-0002	Case Hvy Duty Leathr Spring Clp TP95/96	\$63.00	
S	T03-00079-0005	Case Soft Leather Use Batt Clp TP95/96	\$39.00	
S	T03-00079-0007	Case Hvy Duty Leathr BLoop Dring TP95/96	\$56.00	

Carrying Case – Nylon				
S	T03-00079-0003	Case Nylon D-Stud B/Loop TP95/96	\$59.00	
S	T03-00079-0004	Case Nylon Use Battery Clp TP95/96	\$42.00	
S	T03-00079-0006	Case Nylon D-Stud Chest Harness TP95/96	\$100.00	

Carrying Case Accessories				
S	T03-00038-0022	Belt Loop for D-Stud 55mm	\$20.00	
S	T03-00038-0023	Spring Clip for D-Stud 40mm	\$20.00	
S	T03-00038-0030	Battery Spacer Case Heavy Duty Leather	\$2.00	
S	T03-00038-0034	Shoulder Strap Case Heavy Duty Leather	\$36.00	

Progra	Programming and Servicing Kits			
S	T02-00031-0001	TM / TP Programming & Calibration Kit	\$450.00	
S	T03-00118-0601	USB to RJ11 Programming Cable	\$137.00	
S	T03-00118-0101	TP81/93/94 Programming Adaptor	\$45.00	
S	TPA-SV-006	Radio Programming Lead Serial PC to RJ12	\$69.00	
S	T03-00011-FAAA	TP81/93/94 DC Service Adaptor	\$103.00	
S	T03-00040-0001	TP81/TP93/TP94 Service Kit	\$725.00	
S	T03-00118-5301	Assembly Tool Kit	\$292.00	
S	TOPA-SV-024	Terminals Calibration Box	\$235.00	
S	T02-00031-0002	P25 Programming & Calibration Kit	\$450.00	
S	T03-00118-0201	Calibration Adaptor	\$44.00	
S	T03-00118-0202	Calibration Low Pass Filter	\$38.00	

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TP9300

TP9300 DMR Portable Radio



L3Harris DMR is a highly reliable, modern, digital radio solution that is designed for mission critical environments. The TP9300 portables offer trunked DMR operation (DMR Tier 3) as well as conventional DMR operation (DMR Tier 2), full MPT 1327, and conventional FM functionality in one device. It can roam between DMR and MPT networks.

Each radio comes with the following features as standard:

- MPT Trunking
- GPS Hardware/Location Services
- Bluetooth[®]
- Voice Annunciations
- Enhanced Location Reporting
- DMR Conventional
- ARC4 Encryption

Step One (1 of 4) – Select one (1) radio body based on the frequency band, keypad type, and color. Then select an antenna. E/C Model Number Description List Price

VHF (136-174 MHz) – NO KEY NO DISPLAY			
S	TP9300B1BA	Portable, TP9300, 136-174M, NKND, Blk	\$635.00
S	TP9300B1CA	Portable, TP9300, 136-174M, NKND, Red	\$685.00
S	TP9300B1DA	Portable, TP9300, 136-174M, NKND, Yel	\$685.00
S	TP9300B1EA	Portable, TP9300, 136-174M, NKND, Org	\$685.00
S	TP9300B1FA	Portable, TP9300, 136-174M, NKND, Grn	\$685.00

E/C	Model Number	Description	List Price
VHF (136-17	4 MHz) – SCAN (4-Key)		
		Destable TD0200 420 474M Car Dil	¢702.00
S	TP9305B1BA	Portable, TP9300, 136-174M, Scn, Blk	\$783.00
S	TP9305B1CA	Portable, TP9300, 136-174M, Scn, Red	\$833.00
S	TP9305B1DA	Portable, TP9300, 136-174M, Scn, Yel	\$833.00
S	TP9305B1EA	Portable, TP9300, 136-174M, Scn, Org	\$833.00
S	TP9305B1FA	Portable, TP9300, 136-174M, Scn, Grn	\$833.00

VHF (136-174 MHz) – SYSTEM (16-Key)			
S	TP9306B1BA	Portable, TP9300, 136-174M, Sys, Blk	\$855.00
S	TP9306B1CA	Portable, TP9300, 136-174M, Sys, Red	\$905.00
S	TP9306B1DA	Portable, TP9300, 136-174M, Sys, Yel	\$905.00
S	TP9306B1EA	Portable, TP9300, 136-174M, Sys, Org	\$905.00
S	TP9306B1FA	Portable, TP9300, 136-174M, Sys, Grn	\$905.00

VHF Antenna Options			
S	TPA-AN-001	Antenna, 136-225MHz, Hel Tun	\$22.00
S	TPA-AN-002	Antenna, 136-151MHz, Hel	\$22.00
S	TPA-AN-003	Antenna, 150-162MHz, Hel	\$22.00
S	TPA-AN-004	Antenna, 162-174MHz, Hel	\$22.00
S	TPA-AN-034	Antenna, 136-174MHz, Hel	\$30.00

220 MHz (174-225 MHz) – NO KEY NO DISPLAY			
S	TP9300C0BA	Portable, TP9300, 174-225M, NKND, Blk	\$635.00
S	TP9300C0CA	Portable, TP9300, 174-225M, NKND, Red	\$685.00
S	TP9300C0DA	Portable, TP9300, 174-225M, NKND, Yel	\$685.00
S	TP9300C0EA	Portable, TP9300, 174-225M, NKND, Org	\$685.00
S	TP9300C0FA	Portable, TP9300, 174-225M, NKND, Grn	\$685.00

220 MHz (174-225 MHz) – SCAN (4-Key)			
S	TP9305C0BA	Portable, TP9300, 174-225M, Scn, Blk	\$783.00
S	TP9305C0CA	Portable, TP9300, 174-225M, Scn, Red	\$833.00
S	TP9305C0DA	Portable, TP9300, 174-225M, Scn, Yel	\$833.00
S	TP9305C0EA	Portable, TP9300, 174-225M, Scn, Org	\$833.00
S	TP9305C0FA	Portable, TP9300, 174-225M, Scn, Grn	\$833.00

E/C	Model Number	Description	List Price		
220 MHz	220 MHz (174-225 MHz) – SYSTEM (16-Key)				
S	TP9306C0BA	Portable, TP9300, 174-225M, Sys, Blk	\$855.00		
S	TP9306C0CA	Portable, TP9300, 174-225M, Sys, Red	\$905.00		
S	TP9306C0DA	Portable, TP9300, 174-225M, Sys, Yel	\$905.00		
S	TP9306C0EA	Portable, TP9300, 174-225M, Sys, Org	\$905.00		
S	TP9306C0FA	Portable, TP9300, 174-225M, Sys, Grn	\$905.00		
220 MHz	220 MHz Antenna Options				
S	TPA-AN-040	Antenna, 174-193MHz, Hel	\$22.00		
S	TPA-AN-041	Antenna, 213-225MHz, Hel	\$22.00		

UHF-L (378 – 470 MHz) – NO KEY NO DISPLAY			
S	ТР9300НКВА	Portable, TP9300, 378-470M, NKND, Blk	\$635.00
S	ТР9300НКСА	Portable, TP9300, 378-470M, NKND, Red	\$685.00
S	TP9300HKDA	Portable, TP9300, 378-470M, NKND, Yel	\$685.00
S	ТР9300НКЕА	Portable, TP9300, 378-470M, NKND, Org	\$685.00
S	TP9300HKFA	Portable, TP9300, 38-470M, NKND, Grn	\$685.00

UHF-L (378 – 470 MHz) – SCAN (4-Key)			
S	ТР9305НКВА	Portable, TP9300, 378-470M, Scn, Blk	\$783.00
S	ТР9305НКСА	Portable, TP9300, 378-470M, Scn, Red	\$833.00
S	TP9305HKDA	Portable, TP9300, 378-470M, Scn, Yel	\$833.00
S	TP9305HKEA	Portable, TP9300, 378-470M, Scn, Org	\$833.00
S	TP9305HKFA	Portable, TP9300, 378-470M, Scn, Grn	\$833.00

UHF-L (378 – 470 MHz) – SYSTEM (16-Key)			
S	ТР9306НКВА	Portable, TP9300, 378-470M, Sys, Blk	\$855.00
S	ТР9306НКСА	Portable, TP9300, 378-470M, Sys, Red	\$905.00
S	TP9306HKDA	Portable, TP9300, 378-470M, Sys, Yel	\$905.00
S	TP9306HKEA	Portable, TP9300, 378-470M, Sys, Org	\$905.00
S	TP9306HKFA	Portable, TP9300, 378-470M, Sys, Grn	\$905.00

UHF-L Antenna Options			
S	TPA-AN-037	Antenna, 378-470MHz, 1/4 Wave Whip	\$22.00
S	TPA-AN-038	Antenna, 378-470MHz, Hel	\$22.00
S	TPA-AN-011	Antenna, 400-470MHz, Whip	\$22.00
S	TPA-AN-013	Antenna, 400-470MHz, Hel	\$22.00

E/C	Model Number	Description	List Price
UHF-H (450 – 520 MHz) – NO KEY NO DISPLAY			
S	TP9300H7BA	Portable, TP9300, 450-520M, NKND, Blk	\$635.00
S	TP9300H7CA	Portable, TP9300, 450-520M, NKND, Red	\$685.00
S	TP9300H7DA	Portable, TP9300, 450-520M, NKND, Yel	\$685.00
S	TP9300H7EA	Portable, TP9300, 450-520M, NKND, Org	\$685.00
S	TP9300H7FA	Portable, TP9300, 450-520M, NKND, Grn	\$685.00

UHF-H (450 – 520 MHz) - SCAN (4-Key)			
S	TP9305H7BA	Portable, TP9300, 450-520M, Scn, Blk	\$783.00
S	TP9305H7CA	Portable, TP9300, 450-520M, Scn, Red	\$833.00
S	TP9305H7DA	Portable, TP9300, 450-520M, Scn, Yel	\$833.00
S	TP9305H7EA	Portable, TP9300, 450-520M, Scn, Org	\$833.00
S	TP9305H7FA	Portable, TP9300, 450-520M, Scn, Grn	\$833.00

UHF-H (450 – 520 MHz) – SYSTEM (16-Key)			
S	TP9306H7BA	Portable, TP9300, 450-520M, Sys, Blk	\$855.00
S	TP9306H7CA	Portable, TP9300, 450-520M, Sys, Red	\$905.00
S	TP9306H7DA	Portable, TP9300, 450-520M, Sys, Yel	\$905.00
S	TP9306H7EA	Portable, TP9300, 450-520M, Sys, Org	\$905.00
S	TP9306H7FA	Portable, TP9300, 450-520M, Sys, Grn	\$905.00

UHF-H Antenna Options			
S	TPA-AN-012	Antenna, 450-520MHz, Whip	\$22.00
S	TPA-AN-015	Antenna, 450-520MHz, Hel	\$22.00

E/C	Model Number	Description	List Price
700/800 MHz (762 – 870 MHz) – NO KEY NO DISPLAY			
S	TP9300K5BA	Portable, TP9300, 762-870M, NKND, Blk	\$635.00
S	TP9300K5CA	Portable, TP9300, 762-870M, NKND, Red	\$685.00
S	TP9300K5DA	Portable, TP9300, 762-870M, NKND, Yel	\$685.00
S	TP9300K5EA	Portable, TP9300, 762-870M, NKND, Org	\$685.00
S	TP9300K5FA	Portable, TP9300, 762-870M, NKND, Grn	\$685.00

700/800 MHz (762 – 870 MHz) - SCAN (4-Key)			
S	TP9305K5BA	Portable, TP9300, 762-870M, Scn, Blk	\$783.00
S	TP9305K5CA	Portable, TP9300, 762-870M, Scn, Red	\$833.00
S	TP9305K5DA	Portable, TP9300, 762-870M, Scn, Yel	\$833.00
S	TP9305K5EA	Portable, TP9300, 762-870M, Scn, Org	\$833.00
S	TP9305K5FA	Portable, TP9300, 762-870M, Scn, Grn	\$833.00

700/800 MHz (762 – 870 MHz) - SYSTEM (16-Key)			
S	TP9306K5BA	Portable, TP9300, 762-870M, Sys, Blk	\$855.00
S	TP9306K5CA	Portable, TP9300, 762-870M, Sys, Red	\$905.00
S	TP9306K5DA	Portable, TP9300, 762-870M, Sys, Yel	\$905.00
S	TP9306K5EA	Portable, TP9300, 762-870M, Sys, Org	\$905.00
S	TP9306K5FA	Portable, TP9300, 762-870M, Sys, Grn	\$905.00

700/800 Antenna Options				
S	TPA-AN-022	Antenna, 762-870MHz, 1/2 Wave Whip	\$22.00	
S	TPA-AN-028	Antenna, 762-870MHz, Hel	\$22.00	

E/C	Model Number	Description	List Price	
900 MHz (896 – 941 MHz) - SYSTEM (16-Key)				
S	TP9306L3BA	Portable, TP9300, 896-941M, Sys, Blk	\$855.00	
900 MHz Antenna Options				
S	TPA-AN-025	Antenna, 896-941MHz, 1/2 Wave Whip TP8/TP9	\$22.00	

Step Two (2 of 4) – Select one battery and one charger					
E/C	Model Number	Description	List Price		
Battery	Battery Options				
S	T03-00011-AAAA	Battery, Li-Ion 1880mAh	\$93.00		
S	T03-00011-ABAA	Battery, Li-Ion 1880mAh w/ Belt Clip	\$104.00		
S	T03-00011-CAAA	Battery, Li-Ion 2400mAh	\$114.00		
S	T03-00011-CBAA	Battery, Li-Ion 2400mAh w/ Belt Clip	\$125.00		
S	TPA-CA-201	Belt Clip 55mm	\$11.00		
S	TPA-CA-207	Belt Loop for D-Clip 75mm	\$20.00		
S	TPA-CA-208	Belt Clip Adaptor for 55mm	\$16.00		

Charger Options			
S	T03-00012-AAFA	Charger Single Fast Li-Ion No plug pack	\$66.00
S	T03-00012-AEFA	Charger, Single Bay, Li-Ion w/ plug pack	\$83.00
S	T03-00013-AEDA	Charger, Multi Bay, Li-Ion w/ cable	\$805.00
S	T03-00013-AADA	Charger Multi Li-Ion No cable	\$765.00
S	009-00017-01	PSU Plug Pack 12V 2A US	\$17.00
S	219-01561-00	Cable, PMU IEC, 6.5ft	\$13.00

TP9300

Step Three (3 of 4) – Radio body above comes in standard Analog mode. If desired, select an operating
mode and any additional add on software feature options. Please refer to the notes
in red to determine if there is a prerequisite for any of the software features below.E/CModel NumberDescription

E/C		Description	LIST FILE			
System Ena	System Enablers – Software Features					
Cystem Ena						
S	TPAS080	SFE - DMR Trunking	\$200.00			

Encryption – Software Features			
S	TPAS095	SFE - Multi Key DES Encryption (Not available for no key no display radio bodies)	\$53.00
S	TPAS058-DMR	SFE - DMR AES Encryption	\$200.00

Data Enablers – Software Features			
S	TPAS056-DMR	SFE - User IP Data	\$137.00
S	TPAS105-DMR	SFE - Geofencing Services	\$120.00
S	TPAS075-DMR	SFE - DMR OTAP	\$50.00

System Administration Enablers – Software Features			
S	TPAS060	SFE - Tait Radio API	\$136.00

Radio	Radio Enhancement Enablers – Software Features			
S	TPAS072	SFE Key - Alphanumeric ID (TPAS080 Prerequisite) (Not available for no key no display radio bodies)	\$0.01	
S	TPAS083	SFE - 20/25kHz Wideband Enable (Not available to US FCC- regulated customers)	\$0.01	

Software maintenance and support is available on an annual renewal basis. Software maintenance ensures your software investment remains fully operational, high performing and current through updates that also include valuable new features – please contact your L3Harris Representative for further details.

E/C	Model Number	Description	List Price
Vehicle	Charger Options		
S	T03-00014-BAAB	Charger, Vehicle	\$385.00
S	T03-00014-AAAA	Charger, Vehicle, Battery Only	\$158.00

Speaker Microphones			
S	T03-00045-JFAC	SpkrMic, Evolution, E-Button, 2.5mm	\$186.00
S	T03-00045-KFAC	SpkrMic, Storm, E-Button, 2.5mm, IP68	\$215.00
S	T03-00045-DMAC	SpkrMic, Genesis, E-Button, IP68	\$279.00
S	T03-00045-ERAA	Spkr Mic Light-Weight 3.5mm-Jack	\$63.00
S	T03-00045-FRAA	Spkr Mic Medium-Weight 3.5mm-Jack	\$67.00

Audio Accessories - Headsets				
S	T03-00046-FAAB	Headset, Heavy-Duty Overhead	\$607.00	
S	T03-00046-FEAB	Headset, Heavy-Duty Behind-Head	\$607.00	
S	T03-00046-GEAA	Headset, Hurricane II Behind Head	\$571.00	
S	T03-00046-EFAA	Headset L-Wt Behind-Hd Boom-Mic Fngr-PTT	\$76.00	

Audio Accessories – Surveillance Kits			
S	T03-00047-AAAA	Kit, 2-Wire Surveillance	\$233.00
S	T03-00053-0101	Ring PTT, Wired Light Duty (BT Use)	\$75.00

Audio Accessories – Ear Pieces				
S	T03-00053-0451	Earphone In-Ear 2.5mm	\$69.00	
S	T03-00120-AAAD	Eartube In-Ear 2.5mm	\$20.00	
S	T03-00120-BAAD	Earhook 2.5mm	\$12.00	
S	T03-00120-FAAD	Eartube Earhook 2.5mm	\$20.00	
S	T03-00120-GAAD	Earhook Transparent Hi-Vol 2.5mm	\$12.00	
S	T03-00120-HAAD	Earphone Transparent D-Ring Hi-Vol 2.5mm	\$12.00	
S	T952-055	Erhanger 2.5mm	\$39.00	

Carryin	Carrying Case - Leather				
S	T03-00038-0001	Case Hvy Duty Leather NoKey DStud B/Loop	\$66.00		
S	T03-00038-0002	Case Hvy Duty Leather NoKey Spring Clip	\$57.00		
S	T03-00038-0003	Case Hvy Duty Leather NoKey B/Loop	\$51.00		
S	T03-00038-0004	Case Hvy Duty Leather 4Key DStud B/Loop	\$66.00		
S	T03-00038-0005	Case Hvy Duty Leather 4Key Spring Clip	\$57.00		
S	T03-00038-0006	Case Hvy Duty Leather 4Key B/Loop	\$51.00		
S	T03-00038-0007	Case Hvy Duty Leather 16Key DStud B/Loop	\$66.00		
S	T03-00038-0008	Case Hvy Duty Leather 16Key Spring Clip	\$57.00		

E/C	Model Number	Description	List Price
Carrying	Case – Leather (Cont'd)		
S	T03-00038-0009	Case Hvy Duty Leather 16Key B/Loop	\$51.00
S	T03-00038-0035	Case Hvy Duty Leather NoKey B/Loop Dring	\$51.00
S	T03-00038-0036	Case Hvy Duty Leather 4Key B/Loop Dring	\$51.00
S	T03-00038-0037	Case Hvy Duty Leather 16Key B/Loop Dring	\$51.00
S	T03-00038-0019	Case Soft Leather NoKey Use Batt Clp	\$35.00
S	T03-00038-0020	Case Soft Leather 4Key Use Batt Clp	\$35.00
S	T03-00038-0021	Case Soft Leather 16Key Use Batt Clp	\$35.00
Carrying	Case – Nylon		
S	T03-00038-0010	Case Nylon NoKey D-Stud B/Loop	\$54.00
S	T03-00038-0011	Case Nylon NoKey B/Loop	\$38.00
S	T03-00038-0012	Case Nylon NoKey Use Battery Clp	\$38.00
S	T03-00038-0013	Case Nylon 4Key D-Stud B/Loop	\$54.00
S	T03-00038-0014	Case Nylon 4Key B/Loop	\$38.00
S	T03-00038-0015	Case Nylon 4Key Use Battery Clp	\$38.00
S	T03-00038-0016	Case Nylon 16Key D-Stud B/Loop	\$54.00
S	T03-00038-0017	Case Nylon 16Key B/Loop	\$38.00
S	T03-00038-0018	Case Nylon 16Key Use Battery Clp	\$38.00
S	T03-00038-0024	Case Nylon NoKey Use Battery Clp Org	\$38.00
S	T03-00038-0025	Case Nylon 4Key Use Battery Clp Org	\$38.00
S	T03-00038-0026	Case Nylon 16Key Use Battery Clp Org	\$38.00
S	T03-00038-0027	Case Nylon NoKey D-Stud Chest Harness	\$90.00
S	T03-00038-0028	Case Nylon 4Key D-Stud Chest Harness	\$90.00
S	T03-00038-0029	Case Nylon 16Key D-Stud Chest Harness	\$90.00
S	T03-00038-0031	Case Poly NoKey Use Battery Clp Grn	\$38.00
S	T03-00038-0032	Case Poly 4Key Use Battery Clp Grn	\$38.00
S	T03-00038-0033	Case Poly 16Key Use Battery Clp Grn	\$38.00

Carrying Case Accessories					
S	T03-00038-0022	Belt Loop for D-Stud 55mm	\$20.00		
S	T03-00038-0023	Spring Clip for D-Stud 40mm	\$20.00		
S	T03-00038-0030	Battery Spacer Case Heavy Duty Leather	\$2.00		
S	T03-00038-0034	Shoulder Strap Case Heavy Duty Leather	\$36.00		

E/C	Model Number	Description	List Price
	·	· · · · · · · · · · · · · · · · · · ·	·
Program	nming Kits		
S	T02-00031-0001	TM / TP Programming & Calibration Kit	\$450.00
S	T03-00118-0601	USB to RJ11 Programming Cable	\$137.00
S	T03-00118-0101	TP81/93/94 Programming Adaptor	\$45.00
S	TPA-SV-006	Radio Programming Lead Serial PC to RJ12	\$69.00
S	T03-00011-FAAA	TP81/93/94 DC Service Adaptor	\$103.00
S	T03-00040-0001	TP81/TP93/TP94 Service Kit	\$725.00
S	T03-00118-5301	Assembly Tool Kit	\$292.00
S	TOPA-SV-024	Terminals Calibration Box	\$235.00
S	T02-00031-0002	P25 Programming & Calibration Kit	\$450.00
S	T03-00118-0201	Calibration Adaptor	\$44.00
S	T03-00118-0202	Calibration Low Pass Filter	\$38.00

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DMR, Analog • PORTABLE RADIO, IS

TP9300

TP9300 DMR Intrinsically Safe Portable Radio

L3Harris DMR is a highly reliable, modern, digital radio solution that is designed for mission critical environments.

The TP9300 IS portables offer trunked DMR operation as well as full MPT 1327, and conventional FM functionality in one device. It can roam between DMR and MPT networks.

Each radio comes with the following hardware features as standard:

- MPT Trunking
- GPS Hardware/Location Services
- Voice Annunciations
- Enhanced Location Reporting
- DMR Conventional
- ARC4 Encryption



Step One (1 of 4) – Select one (1) radio body based on the frequency band, keypad type, and color. Then select an antenna.						
E/C	Model Number	Description	List Price			
VHF (136-	VHF (136-174 MHz) – SYSTEM (16-Key)					
S	TP9361B1GA11	Portable, AEx IIA, TP9300,136-174M, Blue	\$875.00			
S	TP9361B1GA21	Portable, AEx IIC, TP9300,136-174M, Blue	\$875.00			
3	IF 9301B1GA21	Forable, AEX 110, 1F3300, 130-17414, Dide	\$875.00			

VHF Antenna Options			
S	TPA-AN-034	Antenna, 136-174MHz, Hel	\$30.00

UHF (380-470 MHz) – SYSTEM (16-Key)				
S	TP9361HBGA11	Portable, AEx IIA, TP9300,380-470M, Blue	\$875.00	
S	TP9361HBGA21	Portable, AEx IIC, TP9300,380-470M, Blue	\$875.00	

UHF (380-470 MHz) – Antenna Options				
S	TPA-AN-037	Antenna, 380-470MHz, 1/4 Wave Whip	\$22.00	
S	TPA-AN-038	Antenna, 380-470MHz, Hel	\$22.00	

DMR, Analog • PORTABLE RADIO, IS

E/C	Model Number	Description	List Price	
700/800 (762-870 MHz) – SYSTEM (16-Key)				
S	TP9361K5GA11	Portable, AEx IIA, TP9300,762-870M, Blue	\$875.00	
S	TP9361K5GA21	Portable, AEx IIC, TP9300,762-870M, Blue	\$875.00	

700/800 Antenna Options			
S	TPA-AN-022	Antenna, 762-870MHz, 1/2 Wave Whip	\$22.00

DMR, Analog • PORTABLE RADIO, IS

TP9300

E/C	Model Number	Description	List Price	
Battery Options				
S	T03-22001-AAAA	Battery, AEx IIA, Li-Ion 2300mAh	\$210.00	
S	T03-22001-AACA	Battery, AEx IIC, Li-Ion 2300mAh	\$210.00	
S	TPA-CA-201	Belt Clip 55mm	\$11.00	

Charger Options				
S	T03-22011-BABB	Charger, IS, Single, Li-Ion w/ plug pack	\$207.00	
S	T03-22011-CABB	Charger, IS, Multi, Li-Ion w/ cable	\$995.00	

TP9300

Step Three (3 of 4) – Radio body above comes in standard Analog mode. If desired, select an operating
mode and any additional add on software feature options. Please refer to the notes
in red to determine if there is a prerequisite for any of the software features below.E/CModel NumberDescriptionList Price

System Enablers – Software Features			
S	TPAS080	SFE - DMR Trunking	\$200.00

Encryption – Software Features				
S	TPAS095	SFE - DES Encryption (Not available for no key no display radio bodies)	\$53.00	
S	TPAS058-DMR	SFE - DMR AES Encryption (TPAS095 Prerequisite)	\$200.00	

Data Enablers – Software Features				
S	TPAS056-DMR	SFE - User IP Data	\$137.00	
S	TPAS105-DMR	SFE - Geofencing Services	\$120.00	
S	TPAS075-DMR	SFE - DMR OTAP	\$50.00	

System Administration Enablers – Software Features			
S	TPAS060	SFE - Tait Radio API	\$136.00

Radio Enhancement Enablers – Software Features				
S	TPAS072	SFE - Alphanumeric ID (TPAS080 Prerequisite) (Not available for no key no display radio bodies)	\$0.01	
S	TPAS083	SFE - 20/25kHz Wideband Enable (Not available to US FCC- regulated customers)	\$0.01	

Software maintenance and support is available on an annual renewal basis. Software maintenance ensures your software investment remains fully operational, high performing and current through updates that also include valuable new features – please contact your L3Harris Representative for further details.

DMR, Analog • PORTABLE RADIO, IS

TP9300

Step Four (4 of 4) – Select any additional accessories desired				
E/C	Model Number	Description	List Price	

Vehicle Charger Options			
S	T03-22011-DAAB	Charger, IS, Vehicle	\$430.00

Speaker Microphones					
S	T03-22008-AAAA	SpkrMic, IS, Storm, E-Button, 2.5mm IP68	\$247.00		
S	T03-22008-DAAA	Skull Mic, IS	\$1,275.00		

Audio Accessories - Headsets				
S	T03-22008-BAAA	Headset, IS, Heavy-Duty Overhead	\$811.00	
S	T03-22008-BABA	Headset, IS, Heavy-Duty Behind-Head	\$811.00	

Carryin	Carrying Case - Leather				
S	T03-22007-0001	Case, IS Hvy Duty Leather DStud B/Loop	\$66.00		
S	T03-22007-0002	Case, IS Hvy Duty Leather Sprng Clip	\$57.00		
S	T03-22007-0003	Case, IS Hvy Duty Leather B/Loop	\$51.00		
S	T03-22007-0004	Case Bat, IS Hvy Duty Leather	\$42.00		
S	T03-22007-0005	Case Bat, IS Hvy Duty Leather DStud	\$56.00		
S	T03-22007-0006	Case Bat, IS Hvy Duty Leather Sprng Clip	\$48.00		
S	T03-22007-0007	Case Bat, IS Hvy Duty Leather B/Loop	\$43.00		
S	TPA-CA-208	Belt Clip Adaptor for 55mm	\$16.00		

Programming Kits			
S	T03-22009-AAAA	TP93/94 IS Programming Adapter	\$225.00

DMR, Analog • PORTABLE RADIO, IS TP9300

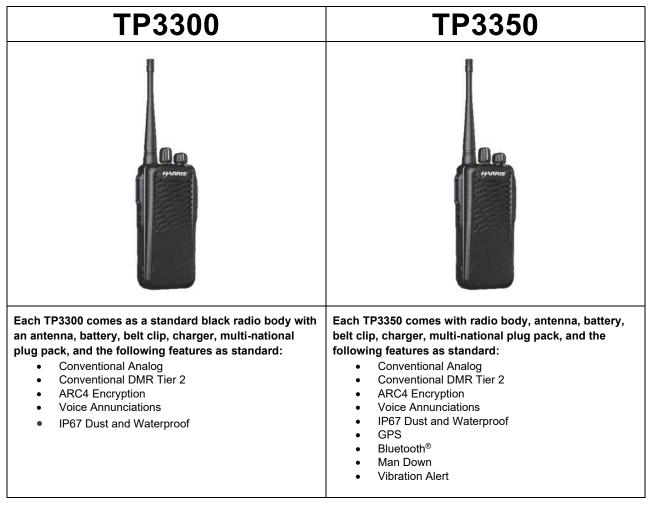
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TP3000

TP3000 DMR Tier 2 Portable Radio



L3Harris TP3000 DMR is a highly reliable, modern, digital radio solution that is designed for operation in critical environments. The TP3000 portables offer conventional analog and DMR operation (DMR Tier 2).



TP3000

Step One (1 of 2) – Select one (1) radio body based on the frequency band and model.				
E/C	Model Number	Description	List Price	
TP3300	– VHF (136-174 MHz) – 0-Ke	у		
S	TP3300-B1-A00H	Portable, TP3300, 136-174M, 0-Key, Blk	\$459.00	
TD2200	(400 520 MUL-) 0 Ko			
193300	– UHF (400-520 MHz) – 0-Ke	y		
S	TP3300-HG-A00H	Portable, TP3300, 400-480M, 0-Key, Blk	\$459.00	
S	TP3300-H7-A00H	Portable, TP3300, 450-520M, 0-Key, Blk	\$459.00	

TP3350 – VHF (136-174 MHz) – 0-Key			
S	TP3350-B1-A00H	Portable, TP3350, 136-174M, 0-Key, Blk	\$550.00

TP3350 – UHF (400-520 MHz) – 0-Key				
S	TP3350-HG-A00H	Portable, TP3350, 400-480M, 0-Key, Blk	\$550.00	
S	TP3350-H7-A00H	Portable, TP3350, 450-520M, 0-Key, Blk	\$550.00	

Step Two (2 of 2) – OPTIONAL Factory-Fitted Front Covers – This option is only needed if a keypad type (4-key or 16- key) or colored front cover is required to be factory-installed on the radio in Step One. Select the radio part number from Step One above, choose the SVF-FIT option below to add the fitting fee, and select the desired front cover keypad type/color from the Accessory front cover list below.						
E/C	E/C Model Number Description List Price					
S SVF-FIT Service, TP3000 Front Cover Fitting \$29.00						

TP3000 DMR Tier 2 Accessories

Front Covers – The front cover options below can be used to customize the keypad type and color of any TP3000 radio. These do not come fitted on the radio.				
E/C	Model Number	Description	List Price	
0-Key C	overs			
S	TP3000-A00T-S	Front Cover, TP3000, 0-Key, Blk	\$18.00	
S	TP3000-B00T-S	Front Cover, TP3000, 0-Key, Org	\$18.00	
S	TP3000-C00T-S	Front Cover, TP3000, 0-Key, Grn	\$18.00	
S	TP3000-D00T-S	Front Cover, TP3000, 0-Key, Gry	\$18.00	
S	TP3000-E00T-S	Front Cover, TP3000, 0-Key, Wht	\$18.00	
S	TP3000-F00T-S	Front Cover, TP3000, 0-Key, Red	\$18.00	
S	TP3000-G00T-S	Front Cover, TP3000, 0-Key, Yel	\$18.00	
S	TP3000-H00T-S	Front Cover, TP3000, 0-Key, Pnk	\$18.00	

TP3000

E/C	Model Number	Description	List Price
4-Key C	overs		
S	TP3000-A04T-S	Front Cover, TP3000, 4-Key, Blk	\$46.00
S	TP3000-B04T-S	Front Cover, TP3000, 4-Key, Org	\$46.00
S	TP3000-C04T-S	Front Cover, TP3000, 4-Key, Grn	\$46.00
S	TP3000-D04T-S	Front Cover, TP3000, 4-Key, Gry	\$46.00
S	TP3000-E04T-S	Front Cover, TP3000, 4-Key, Wht	\$46.00
S	TP3000-F04T-S	Front Cover, TP3000, 4-Key, Red	\$46.00
S	TP3000-G04T-S	Front Cover, TP3000, 4-Key, Yel	\$46.00
S	TP3000-H04T-S	Front Cover, TP3000, 4-Key, Pnk	\$46.00
16-Key	Covers		
S	TP3000-A16T-S	Front Cover, TP3000, 16-Key, Blk	\$67.00
S	TP3000-B16T-S	Front Cover, TP3000, 16-Key, Org	\$67.00
S	TP3000-C16T-S	Front Cover, TP3000, 16-Key, Grn	\$67.00
S	TP3000-D16T-S	Front Cover, TP3000, 16-Key, Gry	\$67.00
S	TP3000-E16T-S	Front Cover, TP3000, 16-Key, Wht	\$67.00
S	TP3000-F16T-S	Front Cover, TP3000, 16-Key, Red	\$67.00
S	TP3000-G16T-S	Front Cover, TP3000, 16-Key, Yel	\$67.00
S	TP3000-H16T-S	Front Cover, TP3000, 16-Key, Pnk	\$67.00

Audio Acce	Audio Accessories			
E/C	Model Number	Description	List Price	

Speake	r Microphones		
S	T03-00045-ERAA	Spkr Mic Light-Weight 3.5mm-Jack	\$63.00
S	T03-00045-FRAA	Spkr Mic Medium-Weight 3.5mm-Jack	\$67.00
Headse	ots	·	
S	T03-00046-EFAA	Headset L-Wt Behind-Hd Boom-Mic Fngr-PTT	\$76.00
Surveil	lance Kits	· · ·	·
S	T03-00047-BAAA	Covert Kit Eartube In Ear Lapel Mic PTT	\$54.00
S	T03-00047-CBAA	Covert Kit Earhanger Lapel Mic With PTT	\$54.00
S	T03-00053-0101	Ring PTT, Wired Light Duty (BT Use)	\$75.00
Ear Pie	Ces	· · ·	·
S	T03-00120-AAAE	Eartube In-Ear 3.5mm	\$20.00
S	T03-00120-BAAE	Earhook 3.5mm	\$12.00
S	T03-00120-FAAE	Eartube Earhook 3.5mm	\$20.00

TP3000

Battery	& Charger Options		
E/C	Model Number	Description	List Price
Battery	Options		
S	T03-00330-AAAA	Battery, Li-Ion 2000mAh	\$78.00
Charger	Options		
S	T03-00322-AAAA	Charger, Single Bay, w/ Plug Pack	\$52.00
S	T03-00320-AAAA	Charger, 6-Way, w/PSU	\$277.00
S	219-01561-00	Cable, PMU IEC, 6.5ft	\$13.00
	ccessories		
E/C	Model Number	Description	List Price
Carrying	l Cases		
S	T03-00370-AAAA	Case, Nylon, D-Clip, Blk, TP3000	\$45.00
S	T03-00370-ABAA	Case, Nylon, Radio Clip, Blk, TP3000	\$38.00
Program	ming Kits		
S	T03-00360-AAAA	Kit, Pressure Test, TP3000	\$150.00
S	T03-00361-AAAA	Cable, Programming, TP3000	\$44.00
S	T03-00362-AAAA	Kit, Calibration Test Programming, TP3000	\$176.00
Demo K	its		
S	TP3000-WBBA	Demo Kit, TP3000 VHF, 3 Radios	\$1,860.00

Demo Kit, TP3000 UHF, 3 Radios

Demo Kit, TP3000, Audio Accessories

TP3000-WABA

TP3000-WABC

s

s

\$1,860.00

\$525.00

TP3000

 Spare Antennas

 E/C
 Model Number
 Description
 List Price

 VHF Antenna Options
 S
 T03-00340-BAAA
 Antenna, TP3000, 135-174MHz
 \$18.00

 UHF Antenna Options
 S
 T03-00340-GAAA
 Antenna, 400-480MHz, TP3000
 \$18.00

Spare K	Spare Kits				
E/C	Model Number	Description	List Price		
S	T03-00350-AAAA	Belt Clip, TP3000, Qty 10	\$35.00		
S	T03-00351-AAAA	Knobs, TP3000, Vol Qty 10, Chnl Qty 10	\$28.00		
S	T03-00352-AAAA	Pots, TP3000, Vol Qty 10, Chnl Qty 10	\$256.00		
S	T03-00353-AAAA	Bumper Bar Kit, TP3000, Qty 10	\$35.00		
S	T03-00354-AAAA	Sealing Kit, TP3000, Qty 10	\$35.00		
S	T03-00355-AAAB	Harris Logo Label Kit, TP3000, Qty 100	\$16.00		
S	T03-00364-AAAA	Die-Cut Labels, Blank, TP3000, Qty 500	\$172.00		

Demo Case Spares				
E/C	Model Number	Description	List Price	
S	TP3000-VABA	Demo Case, TP3000, 3 Radios	\$75.00	
S	TP3000-VABB	Demo Case, TP3000, 6 Radios	\$75.00	
S	TP3000-VABC	Demo Case, TP3000, Audio Accessories	\$75.00	
S	TP3000-VAAD	Demo Instrument Case, TP3000	\$19.00	

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TM9300 DMR Mobile Radios



The L3Harris TM9300 mobiles build on the strengths of our analog and MPT 1327 mobile products with your organizational requirements in mind. The TM9300 offer trunked DMR operation as well as conventional DMR operation, full MPT 1327, and conventional FM functionality in one device. Roaming between DMR and MPT networks is supported.

Each radio comes with the following hardware features as standard:

- MPT Trunking
- Alphanumeric ID
- GPS Hardware/Location Services
- Voice Annunciations
- DMR Conventional
- ARC4 Encryption

Step One (1 of 5) – Pick one (1) radio body based on the frequency band, power, and connector.				
E/C	Model Number	Description	List Price	
VHF (136-174 MHz) – Low Power (25W)				
S	TM9300B1AA	Mobile, TM9300, 136-174M 25W, BNC, Alm	\$475.00	
S	TM9300B1BA	Mobile, TM9300, 136-174M 25W, M-UHF, Alm	\$475.00	

VHF (136-17	VHF (136-174 MHz) – High Power (50W)			
S	TM9300B1CA	Mobile, TM9300, 136-174M 50W, BNC, Alm	\$552.00	
S	TM9300B1DA	Mobile, TM9300, 136-174M 50W, M-UHF, Alm	\$552.00	

220 MHz (174-225 MHz) – Low Power (25W)			
S	TM9300C0AA	Mobile, TM9300, 174-225M 25W, BNC, Alm	\$475.00
S	TM9300C0BA	Mobile, TM9300, 174-225M 25W, M-UHF, Alm	\$475.00

ι	UHF-L (400-470 MHz) – Low Power (25W)				
S	3	TM9300H5AA	Mobile, TM9300, 400-470M 25W, BNC, Alm	\$475.00	
S	3	TM9300H5BA	Mobile, TM9300, 400-470M 25W, M-UHF, Alm	\$475.00	

E/C	Model Number	Description	List Price	
UHF-L (400-470 MHz) – High Power (40W)				
0111 -∟ (∓00-	-+/ 0 Miliz) - Iligii i Owei (+000)			
S	TM9300H5CA	Mobile, TM9300, 400-470M 40W, BNC, Alm	\$552.00	
S	TM9300H5DA	Mobile, TM9300, 400-470M 40W, M-UHF, Alm	\$552.00	

UHF-H (450	UHF-H (450-520 MHz) – Low Power (25W)				
S	ТМ9300Н7АА	Mobile, TM9300, 450-520M 25W, BNC, Alm	\$475.00		
S	ТМ9300Н7ВА	Mobile, TM9300, 450-520M 25W, M-UHF, Alm	\$475.00		

UHF-H (450-520 MHz) – High Power (40W)				
S	TM9300H7CA	Mobile, TM9300, 450-520M 40W, BNC, Alm	\$552.00	
S	TM9300H7DA	Mobile, TM9300, 450-520M 40W, M-UHF, Alm	\$552.00	

700/800 MHz (764-870 MHz) – High Power (35W)				
S	TM9300K5CA	Mobile, TM9300, 762-870M 35W, BNC, Alm	\$552.00	
S	TM9300K5DA	Mobile, TM9300, 762-870M 35W, M-UHF, Alm	\$552.00	

900 MHz (89	900 MHz (896-941 MHz) – High Power (30W)			
S	TM9300L3DA	Mobile, TM9300, 896-941M 30W, M-UHF, Alm	\$552.00	

Step Two (2 of 5) – Power Cable Install Kit Option. Select the power cable based on the power and connector selected above			
E/C	Model Number	Description	List Price
s	T02-00026-1001	Cable, Install Kit, BNC, 25W	\$37.00
s	T02-00026-1002	Cable, Install Kit, M-UHF, 25W	\$37.00
s	T02-00026-1003	Cable, Install Kit, BNC, 30-50W	\$67.00
S	T02-00026-1004	Cable, Install Kit, M-UHF, 30-50W	\$67.00

Step Three (3 of 5) – Control Head & Microphone Configuration Option. Select the option that best fits the configuration you desire and pick one (1) part from each table within that option.				
E/C	Model Number	Description	List Price	
Option 1: Fixed Head Operation – 2 Digit Control Head				
S	T02-00076-AAAC	Cntrl Head, 2Digit, Blk	\$176.00	

Option 1: Fixed Head Operation – Microphones				
S	T02-00005-AAAC	Standard Microphone	\$80.00	
S	T02-00005-AABC	Standard Microphone, 10ft Curly Cord	\$90.00	
S	T02-00005-ABAC	Keypad Microphone	\$180.00	
S	T02-00005-ABBC	Keypad Microphone, 10ft Curly Cord	\$190.00	

Option 2: Fixed Head Operation – Graphical Control Heads			
S	T02-00071-AAAC	Cntrl Head, Local Fixed, Blk	\$199.00
S	T02-00071-AABC	Cntrl Head, Local Fixed, Yel	\$249.00
S	T02-00071-AAEC	Cntrl Head, Local Fixed, Grn	\$249.00

Option 2: Fixed Head Operation – Microphones				
S	T02-00005-AAAC	Standard Microphone	\$80.00	
S	T02-00005-AABC	Standard Microphone, 10ft Curly Cord	\$90.00	
S	T02-00005-ABAC	Keypad Microphone	\$180.00	
S	T02-00005-ABBC	Keypad Microphone, 10ft Curly Cord	\$190.00	

Option 3: Single Remote Head Operation – Control Heads				
S	T02-00071-CAAC	Cntrl Head, Primary Rmt, Blk	\$286.00	
S	T02-00071-CABC	Cntrl Head, Primary Rmt, Yel	\$336.00	
S	T02-00071-CAEC	Cntrl Head, Primary Rmt, Grn	\$336.00	

Option 3: Single Remote Head Operation – Remote Cables				
S	T02-00061-3001	Single Remote Head Kit, 20ft	\$107.00	
S	T02-00061-3002	Single Remote Head Kit, 40ft	\$289.00	
S	T02-00061-3003	Single Remote Head Kit, 60ft	\$337.00	

Option 3: Single Remote Head Operation - Microphones				
S	T02-00005-AAAC	Standard Microphone	\$80.00	
S	T02-00005-AABC	Standard Microphone, 10ft Curly Cord	\$90.00	
S	T02-00005-ABAC	Keypad Microphone	\$180.00	
S	T02-00005-ABBC	Keypad Microphone, 10ft Curly Cord	\$190.00	

E/C	Model Number	Description	List Price
Option 4	: Hand Held Control Head	Operation – Control Heads	
S	T02-00063-1015	Ctrl Head, Primary Rmt, HHCH, Blk	\$282.00
S	T02-00063-1005	Ctrl Head, Primary Rmt, HHCH, Yel	\$332.00
S	T02-00063-1009	Ctrl Head, Primary Rmt, HHCH, Red	\$332.00
S	T02-00063-1013	Ctrl Head, Primary Rmt, HHCH, Grn	\$332.00
Option 4	: Hand Held Control Head	Operation – Remote Cables	
S	T02-00009-0201	Cable, Curly Extension, HHCH 5ft	\$28.00
S	T02-00009-0202	Cable, Curly Extension, HHCH 10ft	\$38.00
S	T02-00009-0203	Cable, Curly Extension, HHCH 20ft	\$46.00
S	T02-00009-0204	Cable, Curly Extension, HHCH 30ft	\$79.00
Option 4	: Hand Held Control Head	Operation – External Speakers	
S	T02-00004-0204	Speaker, External, 10W for 25W Radio	\$73.00
S	T02-00004-0205	Speaker, External, 10W for 30-50W Radio	\$73.00
Option 5	: Dual Remote Head Opera	ation – Primary Control Heads	
s.	T02-00071-CAAC	Cntrl Head, Primary Rmt, Blk	\$286.00
S	T02-00071-CABC	Cntrl Head, Primary Rmt, Yel	\$336.00
S	T02-00071-CAEC	Cntrl Head, Primary Rmt, Grn	\$336.00
Option 5	: Dual Remote Head Opera	ation – Remote Cable	
s	T02-00062-3001	Dual Remote Head Kit, 60ft	\$383.00
Ontion		tion Driver Ocatari Hood Nicconhones	·
-		ation – Primary Control Head Microphones	*00 00
S	T02-00005-AAAC	Standard Microphone	\$80.00
S	T02-00005-AABC	Standard Microphone, 10ft Curly Cord	\$90.00
S	T02-00005-ABAC	Keypad Microphone	\$180.00
S	T02-00005-ABBC	Keypad Microphone, 10ft Curly Cord	\$190.00
Option 5	: Dual Remote Head Opera	ation – Secondary Control Heads	
S	T02-00071-DAAC	Cntrl Head, Secondary Rmt, Blk	\$274.00
S	T02-00071-DABC	Cntrl Head, Secondary Rmt, Yel	\$324.00
S	T02-00071-DAEC	Cntrl Head, Secondary Rmt, Grn	\$324.00
Option 5	: Dual Remote Head Opera	ation – Secondary Control Head Microphones	

Option 5. D	Option 5. Dual Remote nead Operation – Secondary Control nead Microphones				
S	T02-00005-AAAC	Standard Microphone	\$80.00		
S	T02-00005-AABC	Standard Microphone, 10ft Curly Cord	\$90.00		

E/C	Model Number	Description	List Price
S	T02-00005-ABAC	Keypad Microphone	\$180.00
S	T02-00005-ABBC	Keypad Microphone, 10ft Curly Cord	\$190.00
Option	5: Fixed Control Head Oper	ration – Programming	
S	T02-00085-AAAA	Cntrl Head, Programming Fixed	\$104.00
Option	6: Desktop Configuration	<u> </u>	
Power S	upply		
S	T02-00036-AACA	Desktop Power Supply 13V8 23A DC	\$295.00
Desktop	Cradle Cable Kits	· ·	·
S	T02-00026-1001	Cable, Install Kit, BNC, 25W	\$37.00
S	T02-00026-1002	Cable, Install Kit, M-UHF, 25W	\$37.00
S	T02-00026-1003	Cable, Install Kit, BNC, 30-50W	\$67.00
S	T02-00026-1004	Cable, Install Kit, M-UHF, 30-50W	\$67.00
Desktop	Power Supply Hardware Kits	I	
S	T02-00026-3002	Install Kit, U-Cradle, Desktop Power	\$83.00
S	T02-00026-3001	Install Kit, Plinth, Desktop Power	\$83.00
Desktop	Microphone	I	
S	T02-00005-ACAA	Desktop Microphone	\$187.00
Optiona	al Mobile Cradle Mounting H	lardware Kits	
S	T02-00026-2001	Mounting Kit, U-Cradle	\$21.00
S	T02-00026-2002	Mounting Kit, Security Cradle	\$109.00
S	T02-00026-2004	Mounting Kit, Universal	\$75.00
S	T02-00026-2006	Mounting Kit, Dual	\$65.00

E/C	Model Number	Description	List Price		
Optional U	Optional UnifiedVehicle Upgrade Kits				
UnifiedVehic	UnifiedVehicle Upgrade Options				
S	TU2000M000000000A	Upgrade Kit UV Fixed Head No Cell NoAnt	\$522.00		
S	TU2000M000000000B	Upgrade Kit UV Remote Head No Cell NoAnt	\$381.00		
S	TU2000M400000000A	Upgrade Kit UV Fixed Head NACell x3Ant	\$884.00		
S	TU2000M400000000B	Upgrade Kit UV Remote Head NACell x3Ant	\$743.00		

UnifiedVehicle External Antenna Options			
S	T05-00031-0001	Antenna, UVe MultiElement Ext BNC Adptr	\$466.00
S	T05-00031-0002	Antenna, UVe MultiElement Ext MUHF Adptr	\$466.00
S	T05-00031-0003	Antenna, UVe MultiElement Ext (No Adptr)	\$466.00
S	T05-00031-0004	Antenna, UVe WiFi 2.4/5GHz Ext SMA	\$111.00

Step Four (4 of 5) – Radio body above comes in standard Analog mode. If desired, pick an operating mode and any additional add on software feature options. Please refer to the notes in red to determine if there is a prerequisite for any of the software features below.

E/C Mo	lodel Number	Description	List Price
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System Enablers – Software Features			
S	TMAS080	SFE - DMR Trunking	\$200.00

Encryption – Software Features					
S	TMAS095	SFE - Multi Key DES Encryption (Not available 2 Digit Control Heads)	\$53.00		
S	TMAS058-DMR	SFE - Multi Key AES Encryption (TMAS095 Prerequisite)	\$200.00		

Data Enablers – Software Features					
S	TMAS056-DMR	SFE - User IP Data	\$137.00		
S	TMAS105-DMR	SFE – Geofencing Services	\$120.00		
S	TMAS075-DMR	SFE - DMR OTAP	\$50.00		

System Administration Enablers – Software Features				
S	TMAS060	SFE - Tait Radio API	\$136.00	

Radio Enhancement Enablers – Software Features						
S	S TMAS083 SFE - 20/25kHz Wideband Enable (Not available to US FCC- regulated customers) \$0.01					
S	TMAS089-DMR	SFE - Enhanced Location Reporting	\$0.01			

Software maintenance and support is available on an annual renewal basis. Software maintenance ensures your software investment remains fully operational, high performing and current through updates that also include valuable new features – please contact your L3Harris Representative for further details.

Step Five (5 of 5) – Select any additional accessories desired							
E/C	Model Number	Model Number Description List Price					
Accessories – Microphones and Speakers							
S	T02-00005-ADAA	Handsfree Microphone	\$116.00				
S	T02-00004-0101	Telephone Handset	\$651.00				
•	T 00 00004 0004		ATO 00				

S	;	T02-00004-0204	Speaker, External, 10W for 25W Radio	\$73.00
S	;	T02-00004-0205	Speaker, External, 10W for 30-50W Radio	\$73.00
S	;	T02-00004-0201	Speaker, Horn,112dB SPL for 25W Radio	\$185.00
S		T02-00004-0202	Speaker, Horn,112dB SPL for 30-50W Radio	\$185.00

Accessories – Cables				
S	T02-00009-0101	Cable Shielded 8 Core RJ45 Grommet 2ft	\$21.00	
S	T02-00009-0102	Cable Shielded 8 Core RJ45 Grommet 5ft	\$26.00	
S	T02-00009-0103	Cable Shielded 8 Core RJ45 Grommet 20ft	\$46.00	
S	T02-00009-0104	Cable Shielded 8 Core RJ45 Grommet 40ft	\$94.00	
S	T02-00009-0105	Cable Shielded 8 Core RJ45 Grommet 10ft	\$39.00	
S	T02-00063-2001	HHCH Cables & Interface Box Kit	\$395.00	
S	T02-00034-EAAA	Cable Ignition Sense 13ft	\$54.00	
S	TMAA10-10	Remote PTT + Microphone for HHCH B-Box	\$174.00	

Acces	Accessories – GPS Receivers and Accessories					
RF Ante	enna is not included. Please	purchase as a separate item.				
S	TMAA05-01	GPS Receiver Garmin Flush Mount	\$383.00			
S	TMAA05-02	Magnetic Mount Kit for TMAA05-01	\$41.00			
S	TMAA05-03	Plate Mount Kit for TMAA05-01	\$20.00			
S	TMAA05-04	GPS Receiver Garmin Magnetic Mount	\$419.00			
S	TMAA05-05	GPS Receiver PCTEL Magnetic Mount	\$304.00			
S	TMAA05-06	GPS Receiver PCTEL Through Hole Mount	\$314.00			

Programming & Service Kits				
S	T02-00031-0002	P25 Programming & Calibration Kit	\$450.00	
S	T02-00031-0007	TM93/94 Service Kit	\$615.00	
S	TOPA-SV-024	Terminals Calibration Box	\$235.00	
S	T03-00118-0601	USB to RJ11 Programming Cable	\$120.00	
S	TMAA20-02	Adaptor RJ45 to DB9 Adaptor	\$30.00	
S	TMAA20-03	Cable 25W Radio Pwr to Banana Plug	\$59.00	
S	TMAA20-04	Adaptor RJ12 Socket/RJ45 Plug	\$27.00	
S	TMAA21-01	Cable DB15 Socket/RJ45 Plug	\$116.00	

DMR, ANALOG • MOBILE RADIOS



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TB9300

TB9300 DMR Base Stations

The TB9300 DMR base station is a multimode repeater that supports **DMR Tier II Conventional**, **DMR Tier III Trunking**, **Analog and MPT-IP** modes of operation.

The TB9300 sets the standard for high-performing radio communications technology. This software-flexible product is built on a foundation of flexibility for system integration, modularity and robustness.

All TB9300 systems offer continuous duty cycle operation at full performance specifications within the complete temperature and altitude range.

With flexible, modular design and practical features, the TB9300 raises the bar for DMR base stations/repeaters.

Its practical features coupled with impressive RF performance to really make a difference in high interference/RF sites makes the TB9300 the next generation base station.

The TB9300 offers the following features:

- Full IP connectivity allows efficient scaling and design of your network
- Full remote control, diagnostics & selfmonitoring capability
- Compact 4U rack profile
- Choice of single 100W or single 50W or dual 50W configurations per subrack
- Programmable power input in 1W steps, per channel
- Seamless backup battery operation and charging with ACDC supply
- Analog Repeater (single site)

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HARRIS		2 4 12	unu: Base Station Hépester	(ĝ) (tait

Frequency	50W	100W	50W Dual
148-174MHz	~	~	~
216-225MHz		\checkmark	
400-440MHz	✓	✓	✓
440-480MHz	✓	✓	✓
470-520MHz	✓	✓	✓
762-870MHz	✓	✓	✓
896-941MHz		\checkmark	

Step One (1 of 4) – Select a chassis based on the RF Power					
E/C	Model Number	Description List Pri			
50 Watt Single-Channel Chassis					
S	TB9315S-050H Chassis, TB9300, Single, 50W \$1,278.00				
50 Watt Dua	al-Channel Chassis				
S	TB9315D-050H	Chassis, TB9300, Dual, 50W	\$1,278.00		
100 Watt Single-Channel Chassis					
S	TB9335S-100H	Chassis, TB9300, Single, 100W	\$1,278.00		

E/C	Model Number	Description	List Price		
Option	Option 1 – TB9300 Reciter for Single 50W Options				
S	T01-01105-DAAA	Reciter, TB9300, 148-174MHz	\$2,243.00		
S	T01-01105-KAAA	Reciter, TB9300, 400-440MHz	\$2,243.00		
S	T01-01105-LAAA	Reciter, TB9300, 440-480MHz	\$2,243.00		
S	T01-01105-NAAA	Reciter, TB9300, 762-870MHz	\$2,243.00		

S	T01-01136-CAAC	Constant Env PA, TB9300, 136-174MHZ, 50W	\$1,292.00
S	T01-01136-JAAC	Constant Env PA, TB9300, 380-520MHz, 50W	\$1,292.00
S	T01-01136-NAAA	Constant Env PA, TB9300, 762-870MHz, 50W	\$1,292.00

Option 2 – TB9300 Reciter for Dual 50W Options				
Select two (2) for dual configuration				
s	T01-01105-DAAA	Reciter, TB9300, 148-174MHz	\$2,243.00	
S	T01-01105-KAAA	Reciter, TB9300, 400-440MHz	\$2,243.00	
S	T01-01105-LAAA	Reciter, TB9300, 440-480MHz	\$2,243.00	
S	T01-01105-NAAA	Reciter, TB9300, 762-870MHz	\$2,243.00	

Option 2 – TB9300 Reciter for Dual 50W Options			
Select two (2) for dual configuration			
S	T01-01136-CAAC	Constant Env PA, TB9300, 136-174MHZ, 50W	\$1,292.00
S	T01-01136-JAAC	Constant Env PA, TB9300, 380-520MHz, 50W	\$1,292.00
S	T01-01136-NAAA	Constant Env PA, TB9300, 762-870MHz, 50W	\$1,292.00

E/C	Model Number	Description	List Price			
Option 3 –	Option 3 – TB9300 Reciter for Single 100W Options					
S	T01-01105-CAAA	Reciter, TB9300, 136-156MHz	\$2,243.00			
S	T01-01105-DAAA	Reciter, TB9300, 148-174MHz	\$2,243.00			
S	T01-01105-FAAA	Reciter, TB9300, 216-225MHz	\$2,243.00			
S	T01-01105-KAAA	Reciter, TB9300, 400-440MHz	\$2,243.00			
S	T01-01105-LAAA	Reciter, TB9300, 440-480MHz	\$2,243.00			
S	T01-01105-NAAA	Reciter, TB9300, 762-870MHz	\$2,243.00			
S	T01-01105-QAAA	Reciter, TB9300, 896-941MHz	\$2,243.00			
Option 3 –	TB9300 Reciter for Single 100W	/ Options				
S	T01-01136-CBAC	Constant Env PA, TB9300, 136-174MHz,100W	\$1,816.00			
S	T01-01136-EBAA	Constant Env PA, TB9300, 174-225MHz,100W	\$1,816.00			
S	T01-01136-JBAC	Constant Env PA, TB9300, 380-520MHz,100W	\$1,816.00			
S	T01-01136-NBAA	Constant Env PA, TB9300, 762-870MHz,100W	\$1,816.00			
S	T01-01136-QBAA	Constant Env PA, TB9300, 850-941MHz,100W	\$1,816.00			

Step Thr	Step Three (3 of 5) – Select Power Management Unit (PMU) option based on power input					
E/C	Model Number	Description	List Price			
DC Optic	DC Options – PMU 12VDC					
S	TBA3001-1100	PMU, TB9000, 12VDC Aux12V	\$1,889.00			
S	TBA3001-1200	PMU, TB9000, 12VDC Aux24V	\$1,889.00			
S	TBA3001-1400	PMU, TB9000, 12VDC Aux48V	\$1,889.00			
DC Optic	ons – PMU 24VDC					
S	TBA3002-2100	PMU, TB9000, 24VDC Aux12V	\$1,889.00			
S	TBA3002-2200	PMU, TB9000, 24VDC Aux24V	\$1,889.00			
S	TBA3002-2400	PMU, TB9000, 24VDC Aux48V	\$1,889.00			
DC Optic	ons – PMU 48VDC		·			
S	TBA3004-4100	PMU, TB9000, 48VDC Aux12V	\$1,889.00			
S	TBA3004-4200	PMU, TB9000, 48VDC Aux24V	\$1,889.00			
S	TBA3004-4400	PMU, TB9000, 48VDC Aux48V	\$1,889.00			

AC Options – PMU			
S	TBA30A0-0100	PMU, TB9000, AC Aux12	\$1,889.00
S	TBA30A0-0200	PMU, TB9000, AC Aux24	\$1,889.00
S	TBA30A0-0400	PMU, TB9000, AC Aux48	\$1,889.00

Mains Power Cable			
S	219-01561-00	Cable, PMU IEC, 6.5ft	\$13.00

AC/DC Opt	AC/DC Options – PMU 12VDC			
S	TBA30A1-1100	PMU, TB9000, 12VACDC Aux12V	\$2,501.00	
S	TBA30A1-1200	PMU, TB9000, 12VACDC Aux24V	\$2,501.00	
S	TBA30A1-1400	PMU, TB9000, 12VACDC Aux48V	\$2,501.00	
AC/DC Opt	ions – PMU 24VDC			
S	TBA30A2-2100	PMU, TB9000, 24VACDC Aux12V	\$2,501.00	
S	TBA30A2-2200	PMU, TB9000, 24VACDC Aux24V	\$2,501.00	
S	TBA30A2-2400	PMU, TB9000, 24VACDC Aux48V	\$2,501.00	

E/C	Model Number	Description	List Price
AC/DC Opti	ons – PMU 48VDC		
S	TBA30A4-4100	PMU, TB9000, 48VACDC Aux12V	\$2,501.00
S	TBA30A4-4200	PMU, TB9000, 48VACDC Aux24V	\$2,501.00
S	TBA30A4-4400	PMU, TB9000, 48VACDC Aux48V	\$2,501.00

Mains Powe		er Cable		
	S	219-01561-00	Cable, PMU IEC, 6.5ft	\$13.00

TB9300

Step Four (4 of 5) – Select Software Feature Enablers (SFEs) based on the configuration needed						
E/C	Model Number	Description	List Price			
	. ,	d Voting with Simulcast Enablers ast enablers if simulcast design is required.				
S	TBAS304	SFE - DMR Conventional	\$220.00			
This is neede	Simulcast Enablers This is needed if you are designing a simulcast system. At least one master site/central voter is required in simulcast designs.					
Master Site	Γ		r			
S	TBAS306	SFE - DMR Central Voter (Master) (TBAS304 Prerequisite)	\$5,448.00			
Satellite Site	1					
s	TBAS307	SFE - DMR IP Networking (Satellite)	\$860.00			
Note: If a Dual configuration has been selected in step 1 above, repeat this option to select second channel software.						
Option 2 – DMR Tier III (Trunking) and Voting with Simulcast Enablers Select one of the following trunking options below then move on to simulcast enablers if simulcast design is required.						
	Option 2A: DMR Trunking (Access) Enabler Preferred choice for designs involving only one (1) functional site (i.e. one simulcast cell or a single site)					
S	TBAS303	SFE - DMR Trunking (Access)	\$2,205.00			

•	Option 2B: DMR Trunking (Express6) Enabler Preferred choice for designs involving up to six (6) functional sites. A single simulcast cell is considered one functional site.		
S	TBAS302	SFE - DMR Trunking (Express6)	\$3,098.00

Option 2C: DMR Trunking (Express20) Enabler Preferred choice for designs involving up to twenty (20) functional sites. A single simulcast cell is considered one functional site.			
S	TBAS305	SFE - DMR Trunking (Express20)	\$4,373.00

S TBAS300 SFE - DMR Trunking (Full) \$6,400.00	•	Option 2D: DMR Trunking (Full) Enabler Preferred choice for designs involving more than twenty (20) functional sites. A single simulcast cell is considered one functional site.		
	S	TBAS300	SFE - DMR Trunking (Full)	\$6,400.00

Simulcast Enablers This is needed if you are designing a simulcast system. At least one master site/central voter is required in simulcast designs.				
Master Site	Master Site			
S	TBAS306	SFE - DMR Central Voter (Master) (TBAS300 or TBAS302 or TBAS303 or TBAS305 Prerequisite)	\$5,448.00	
Satellite Site				
S	TBAS307	SFE - DMR IP Networking (Satellite)	\$860.00	

Note: If a Dual configuration has been selected in step 1 above, repeat this option to select second channel software.

Step Five (5 of 5) – Select any additional standalone accessories desired			
E/C	Model Number Description List Price		List Price
S	TBAA03-13	Auxiliary Support Bracket, TB8/9	\$35.00
S	TBAA03-16	Carrying Handles, TB8/9	\$43.00
S	T01-01150-0002	Upgrade Kit, Single Channel, TB9300	\$71.00

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TB7300

Power

TB7300 DMR Base Stations

The L3Harris TB7300 is a multimode slimline repeater that supports DMR Tier II Conventional, DMR Tier III Trunking, Analog and MPT-IP modes of operation. A slim, 1U design forms part of an intelligent building block of an end-to-end network solution, which includes base stations, terminals and network management software applications.

The TB7300 offers you the following features:

- Economical slim 1U design
- Three Operating modes DMR Tier 3, Tier 2, and Analog
- Software flexible migration path between platforms
- Exceptional receiver performance
- IP linked node solution for multi-site network capability
- Remote network management and monitoring
- SNMP management capability
- TaitEnable application suite compatible
- Tait DMR access and express solution compatible

HARRIS

- 50-Watt output power (VHF) 100% duty cycle
- 13.8VDC Input power typical

tait

EP-100

• •	
148-174 MHz	50W
400-470 MHz	40W
470-520 MHz	40W

Frequency

Full Solu	Full Solutions with Software Included				
E/C	Model Number	Description	List Price		
TB7300	TB7300 Conventional Trunked (Analog software feature included)				
S	TB7310B3B00000000	Station, TB7300, Single, 148-174MHz, 50W	\$3,300.00		
S	TB7310H3B00000000	Station, TB7300, Single, 470-520MHz, 40W	\$3,300.00		
S	TB7310H5B00000000	Station, TB7300, Single, 400-470MHz, 40W	\$3,300.00		
TB7300 Conventional Trunked (TBAS300 software feature included)					
S	TB7310B3B0000000AA	DMR Conv Trk 50W 148-174MHz	\$9,700.00		
S	TB7310H3B000000AA	DMR Conv Trk 40W 470-520MHz	\$9,700.00		
S	TB7310H5B000000AA	DMR Conv Trk 40W 400-470MHz	\$9,700.00		
TB7300	TB7300 DMR Tier III Express6 Multisite Trunking (TBAS302 software feature included)				
S	TB7310B3B000000AC	DMR Express With Anlaog 50W 148-174MHz	\$6,398.00		
S	TB7310H3B000000AC	DMR Tier3 EXP6 40W 470-520MHz	\$6,398.00		
S	TB7310H5B000000AC	DMR Express with Analog 40W 400-470MHz	\$6,398.00		

TB7300

E/C	Model Number	Description	List Price	
TB7300	TB7300 DMR Tier III Access Single Site Trunking (TBAS303 software feature included)			
S	TB7310B3B0000000AD	DMR Access with Analog 50W 148-174MHz	\$5,505.00	
S	TB7310H3B000000AD	DMR Tier3 Access 40W 470-520MHz	\$5,505.00	
S	TB7310H5B000000AD	DMR Access with Analog 40W 400-470MHz	\$5,505.00	
TB7300	rB7300 DMR Tier II Conventional (TBAS304 software feature included)			
S	TB7310B3B000000AE	CNV with Analog 50W 148-174M	\$3,520.00	
S	TB7310H3B0000000AE	DMR Tier2 Conv 40W 470-520MHz	\$3,520.00	
S	TB7310H5B0000000AE	DMR Cnv with Analog 40W 400-470MHz	\$3,520.00	
TB7300	TB7300 DMR Tier III Express20 Multisite Trunking (TBAS305 software feature included)			
S	TB7310B3B0000000AF	DMR Express 20 Analog 50W 148-174MHz	\$7,673.00	
S	TB7310H3B0000000AF	DMR Tier3 EXP20 40W 470-520MHz	\$7,673.00	
S	TB7310H5B0000000AF	DMR Express 20 Analog 40W 400-470MHz	\$7,673.00	

TB7300 Software Feature Options			
E/C	Model Number	Description	List Price
S	TBAS300	SFE – DMR Trunking	\$6,400.00
S	TBAS302	SFE – DMR Express6	\$3,098.00
S	TBAS303	SFE – DMR Access	\$2,205.00
S	TBAS304	SFE – DMR Conventional	\$220.00
S	TBAS305	SFE – DMR Express20	\$4,373.00
S	TBAS306	SFE – DMR Central Voter (Master)	\$5,448.00
S	TBAS307	SFE – DMR IP Networking (Satellite)	\$860.00

TB7300 Transportable Repeater Options			
E/C	Model Number	Description	List Price
S	TB7304-B370	Tran Rpt DMR Tier2 152-174 AC/DC S10-16M	\$14,928.00
S	TB7304-H580	Tran Rpt DMR Tier2 400-470 AC/DC S5-7M	\$14,928.00

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TN9300 Core Networks – DMR

► TAIT DMR Systems (Tier 2 & Tier 3)

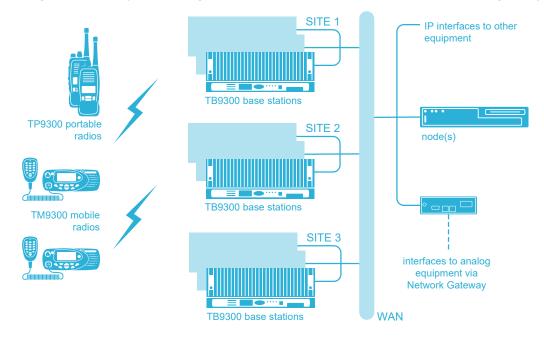


DMR • CORE NETWORK INFRASTRUCTURE

TN9300

Network Overview

A basic L3Harris-Tait Conventional or Trunked DMR network consists of centralized core network equipment, which controls the operation of the network, and a number of sites, each of which consists of several base stations/ repeaters linked over an IP backbone network to form a wide area network. Non-DMR base stations/repeaters (e.g. Analog, Actionet, P25) can be integrated into this network via one or more L3Harris-Tait gateways.



Example Diagram: DMR Tier 3 system with 3 sites

The base stations/repeaters at a site provide the radio frequency (RF) interface to the radios.

A single-site Conventional or Trunking system can operate without centralized core network equipment (See DMR Access solution below, or DMR Tier 2 single-site operations with no wider system connectivity).

The DMR system uses digital modulation and 2-slot TDMA (time division multiple access) on the RF path between the base stations and the mobile radios. TDMA divides up the frequency spectrum using timeslots whereby user A gets a few milliseconds of access to the spectrum, then it's the turn of user B so that one base station provides two "logical" channels on each 12.5kHz bandwidth transmit and receive frequency (one on each timeslot).

For DMR Tier 3 Trunking operation, at each site, there are one or more control channels and a number of traffic channels. Multiple control channels are used if there are a large number of radios using the site or if there is a lot of data traffic (e.g. the Short Data Service (SDS) or GPS location data) on the control channel. The radios are configured to prefer one control channel. Two control channels can be on the same base station (using both timeslots) or on different base stations (using one timeslot from each). Whether a logical channel operates as a control channel or a traffic channel is determined by the node and can be configured to meet your organizational requirements.

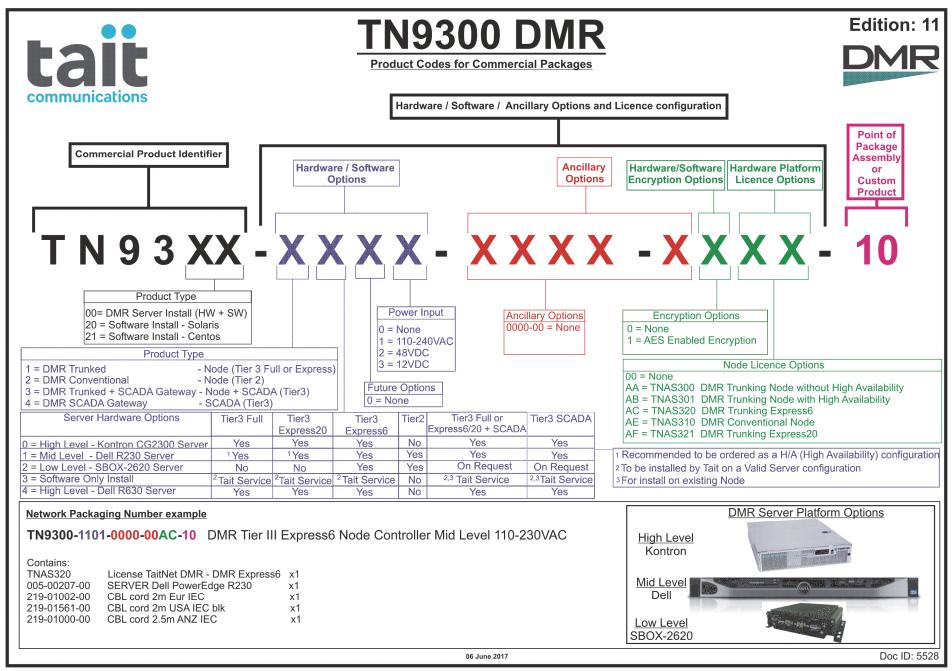
For DMR Tier 2 Conventional operation, the Channel Controller is only necessary for system connectivity (i.e. AIS Dispatch connection) and IP linked multi-site operations.

Issued: 08/31/20

TN9300

Network Elements

- DMR Tier 3 Node Controller controls the call setup, generates and stores call records and raises alarms.
- DMR Tier 2 Channel Controller is the equivalent of a DMR Tier 3 Node Controller.
- Base station/Repeater provides the RF path to and from the mobile and portable radios for the voice or data communications.
- Network gateway provides an interface to equipment and systems outside of the DMR system.
- IP backbone interconnects the various elements of the DMR network.
- Network Management EnableMonitor, EnableReport and EnableFleet.
- A full L3Harris-Tait DMR solution will, as indicated in the diagram above, integrate a wide variety of thirdparty elements like voice recorders, dispatchers and applications.



TN9300

DMR Tier 3 - Network Dimensions

The following table gives the maximum dimensions of a DMR Trunking network with high-level server.

ELEMENT	LIMITS
Sites / Network	250
Control Channels / Network	250
Physical Channels / Network	1000 (2000 logical channels)
Physical Channels / Site	20 (40 logical channels)
Nodes / Network	20
Active Audio Connections / Node Each active connection consists of: reciter logical channel network gateway a call on an AIS trunk a call on an SIP trunk	250
Audio latency (from PTT including any required call setup to audio out of b party)	400 ms ¹
Network Gateways / Network	300 (planned but untested)
DIP Connections	300 (planned but untested)
Concurrent SIP Calls	300 (planned but untested)
Maximum node to base station link latency	900 ms round trip time (planned but untested)

¹Could be longer in late entry with encryption.

TN9300

Where smaller networks are required, the DMR Express or DMR Access licensed networks are available as follows:

• **DMR Express20** has the following maximum dimensions, and requires Express licenses for the node and TB9300 or TB7300 reciters with mid-level server:

ELEMENT	LIMITS
Sites / Network	20
Physical Channels / Network	80
Nodes / Network	1+1 (if HA option)

• **DMR Express6** has the following maximum dimensions, and requires Express licenses for the node and TB9300 or TB7300 reciters with mid-level server:

ELEMENT	LIMITS
Sites / Network	6
Physical Channels / Network	24 (48 logical channels)
Nodes / Network	1

• **DMR Access** is for single-site systems that do not require a node controller as such, and has the following maximum dimensions. Access SFE keys are installed in the TB9300 or TB7300 reciters:

ELEMENT	LIMITS
Sites / Network	1
Physical Channels / Network	4 (8 logical channels)
Nodes / Network	Standalone

TN9300

DMR Tier 2 - Network Dimensions

The following table gives the maximum dimensions of a DMR Conventional network. DMR Tier 2 SFE keys are installed in the TB9300 or TB7300 reciters.

ELEMENT	LIMITS		
Sites / Network	20		
RF Channels / Site	40 (80 logical channels)		
Channel Controller / Network	1 +1 (if HA option)		

Network Hardware

ITEM CODE	DESCRIPTION		
Hardware			
TN9300-1001-0000-0000-10	DMR Tier 3 Trunked Node Controller High-Level 110-230VAC		
TN9300-1002-0000-0000-10 DMR Tier 3 Trunked Node Controller High-Level 48VDC			
TN9300-1101-0000-0000-10	DMR Tier 3 Trunked Node Controller Mid-Level 110-230VAC		
TN9300-1201-0000-0000-10	DMR Tier 3 Trunked Node Controller Low-Level 110-230VAC		
TN9300-2101-0000-0000-10	DMR Tier 2 Conventional Channel Controller Mid-Level 110-230VAC		
TN9300-2201-0000-0000-10	DMR Tier 2 Conventional Channel Controller Low-Level 110-230VAC		
TN8271-00	TaitNet Network Gateway		

SYSTEM TYPE	OEM SERVER
High-Level	Kontron CG2300
Mid-Level	Dell R230
ow-Level Sintrones SBox2620	

TN9300

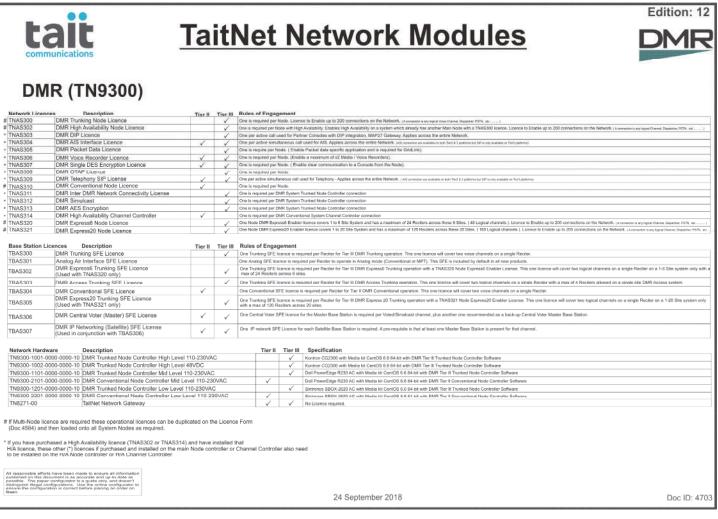
Licenses

ITEM CODE	DESCRIPTION
Licenses	
TNAS300	License DMR 3 Node Enabler without HA
TNAS302	License Tait Trunk DMR - High Availability (TNAS300/321 Prereq)
TNAS303	License Tait Trunk DMR - DIP 1 per call (TNAS300/320/321 Prereq)
TNAS304	License Tait Trk/Conv DMR - AIS 1 per call (TNAS300/310/320/321)
TNAS305	License Tait Trunk DMR - Data 1 per call
TNAS306	License Tait Trunk/Conv DMR - Voice Recorder
TNAS307	License Tait Trunk/Conv DMR - DES Encryption
TNAS308	License Tait Trunk DMR - OTAP
TNAS309	License Tait Trunk/Conv DMR - Telephony (SIP) 1 per call
TNAS310	License Tait Conv DMR - Conventional Node Enabler
TNAS311	License Tait Trunk DMR - Inter Network Connectivity
TNAS320	License DMR 3 Express6 Node Enabler
TNAS321	License DMR 3 Express20 Node Enabler
TNAS312	License Tait Trunk DMR - Simulcast
TNAS313	License Tait Trunk DMR - AES Encryption
TNAS314	License Tait Conv DMR - High Availability (TNAS310 Prereq)

Software maintenance and support is available on an annual renewal basis. Software maintenance ensures your software investment remains fully operational, high performing and current through updates that also include valuable new features – please contact your L3Harris Representative for further details.

DMR • CORE NETWORK INFRASTRUCTURE

TN9300



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DMR • CORE NETWORK INFRASTRUCTURE



All prices are subject to the then current L3Harris Corporation Communications System Domestic Standard Conditions of Sale and are subject to change without notice.

Master Price List (USD)

Company Proprietary and Confidential

DMR Network Infrastructure - TN9300

E/C	Item Code	Description	List Price
S	TN9300100200000000	Tier3 Trk Node Control Hi Level 48VDC	\$ 26,820.00
S	TN930010010000000	Tier3 Trk Node Control Hi Lvl 110-230VAC	\$ 26,820.00
S	TN930011010000000	\$ 7,267.00	
S	TN930021010000000	Tierll Conv Node Cntrl Mid 110-230VAC	\$ 7,267.00
S	TN930012010000000	Tier3 Trk Node Cntrl Low 110-230VAC	\$ 5,366.00
S	TN930022010000000	Tier2 Conv Node Cntrl Low 110-230VAC	\$ 5,366.00
S	TN8271-00	TaitNet Network Gateway	\$ 2,545.00
TN9	300 - Software Licenses		
E/C	Item Code	Description	List Price
s	TNAS300	License DMR 3 Node Enabler without HA	\$ 25,636.00
S	TNAS302	License Tier3 Trk High Availability	\$ 12,818.00
s	TNAS303	License TaitNet DMR - DIP License	\$ 554.00
S	TNAS304	License Digital Dispatch /Teleco	\$ 1,628.00
S	TNAS305	License TaitNet DMR - Data	\$ 5,753.00
S	TNAS306	License TaitNet DMR - Voice Recorder	\$ 2.714.00
S	TNAS307	License TaitNet DMR - DES Enc	\$ 1,292.00
S	TNAS308	License TaitNet DMR - OTAP	\$ 829.00
S	TNAS309	License TaitNet DMR Telephony - (SIP) 1 P	\$ 1,628.00
S	TNAS310	License Tier2 Multisite Node Enabler	\$ 532.00
S	TNAS311	DMR Inter Network Connection	\$ 6,458.00
S	TNAS312	DMR Tier3 Simulcast	\$ 5,427.00
S	TNAS320	License DMR Tier3 Express6 Node Enabler	\$ 4,559.00
S	TNAS321	License DMR Tier3 Express20 Node Enabler	\$ 5,926.00
S	TNAS313	License, DMR Tier III, AES Encryption	\$ 1,937.00
S	TNAS314	License, DMR Tier II, CH Controller HA	\$ 2,714.00

Enable Suite



EnableProtect

Overview

Security is an important consideration for P25 networks, and security management and enforcement easier with three important tools: Key Management Facility, Key Fill Device, and Advanced System Key. Each of these tools can be used alone or together to provide complete security for radio configuration and communication.

EnableProtect Key Management Facility

Overview

Manage encryption across the fleet confidently and efficiently with the flexible and powerful EnableProtect Key Management Facility.

- The user-friendly EnableProtect Key Management Facility (KMF) brings the management of P25 encryption into one central location, making it easier to manage and update encryption keys across the user's organization. A complete set of diagnostics across all devices allows crypto officers to troubleshoot and resolve problems remotely, saving technician time if issues occur.
- The EnableProtect Key Management Facility (KMF) uses industry-standard cryptographic systems for Over-the Air Reprogramming (OTAR). As part of an L3Harris-Tait conventional or trunked OTAR infrastructure solution, the efficient and easy-to-use KMF utilizes DES/AES security, which provides increased confidence in the system, and greatly reduces both RF traffic and user requests to rekey.

EnableProtect Key Fill Device

Overview

The EnableProtect Key Fill Device (KFD) makes encrypting digital radios as efficient and error-free as possible, ensuring that encryption specialists and radio technicians can manage their workflow with ease.

- L3Harris' comprehensive range of P25 radios, base stations/repeaters, and systems gives public safety organizations the ability to choose a solution that best meets their needs. Our versatile encryption options are designed to improve the safety and security of first responders.
- The KFD enables users to speed through repetitive rekeying tasks with easy-to-use commands, shortcuts for frequently used functions, and automatic connection to the radios.

EnableProtect Advanced System Key

Overview

EnableProtect Advanced System Key (ASK) utilizes specially configured USB Prime and Pass keys to safeguard P25 radio networks against unauthorized radio programming and use.

- Read/write protection stops unauthorized users from accessing or modifying the configuration data stored in radios. Users must have a USB pass key to program the radio.
- Trunking protection is usually required for large state-wide radio systems to prevent unauthorized use of a P25 trunking network. Users must have a USB pass key to program any P25 trunking-related settings.
- Provides two-factor authentication to complement the use of EnableFleet.

Enable Suite EnableProtect

EnableProtect Key Management Facility (KMF)

Features

- Dashboard
 - A customizable dashboard allows users to track key update tasks, common key references, and groups and devices of interest.
- Diagnostics
 - The KMF has a comprehensive diagnostics tool that has been designed specifically to establish the state of devices on the network. Users can check to see if a device is on the system, verify the keys it has, update all the keys, as well as perform other diagnostic tests.
- Key Update Task
 - KMF messages are sent only to radios specified by the key update task, without needing to address the entire fleet. Key update tasks can be scheduled to occur at any time. This process is automated, so it is more secure and saves bandwidth.
- Problem Devices
 - This unique feature makes it easy to track devices that can be contacted but cannot be updated. The Problem Device indicator is highlighted if any changes occur to the list of problem devices.
- Redundancy
 - The KMF offers multiple levels of redundancy. This feature gives users real peace of mind because they are protected against hardware and power failures with virtually no downtime.
- Sectors
 - Devices can be assigned to sectors to make them easier to track. A sector can be a region or an agency.
- Unique Key Encryption Key (UKEK)
 - Most agencies use a common provisioning key (sometimes called a "shop key") for the UKEK in all radios. The P25 EnableProtect KMF can automatically generate a truly unique UKEK for every radio. These can be exported to a KFD for use when commissioning new radios in the shop, or the KMF can replace the Common Provisioning Key with a unique UKEK the first time a radio operates on the network.
- Authorities
 - With the KMF, owners can be assigned to keys and groups, and their contact information is stored in the KMF. This helps crypto officers contact those responsible for the keys and groups if a problem arises.

EnableProtect Key Management Facility (KMF)

The KMF solution is available in both AC and DC variants.

ITEM CODE	DESCRIPTION	
TN9121-0000-10	KMF Server Package AC PSU	
TN9122-0000-10	KMF Standby Server Package AC PSU	
TN9123-0000-10	KMF Server Package DC PSU	
TN9124-0000-10	KMF Standby Server Package DC PSU	

ITEM CODE	DESCRIPTION
TKAS101	KMF SFE Key - 1-150 Devices
TKAS102	KMF SFE Key - 151-1000 Devices
TKAS103	KMF SFE Key - 1001-4000 Devices
TKAS104	KMF SFE Key - 4001-10000 Devices
TKAS106	KMF SFE Key - KFD Interface

KMF server licenses are cumulative. For example, if the fleet has 3,000 devices that need keying, TKAS101, TKAS102, and TKAS103 would be needed.

ITEM CODE	DESCRIPTION
005-00590-00	Spare Encryption Smart Card

EnableProtect Key Fill Device (KFD)

The EnableProtect Key Fill device makes encrypting digital radios as efficient and error-free as possible, ensuring that encryption specialists and radio technicians can manage their workflow with ease.

Features of the KFD include

- Standard Key Fill
 - An easy-to-use key fill device, with simple screens and menus to make key inventory and management straightforward.
 - Automatic or manual generation of AES and DES keys, zeroes keys, and changes active keyset.
- Fast Key Fill
 - A fast activation package used to quickly load extremely secure keys into large numbers of radios.

ITEM CODE	DESCRIPTION		
T03-00040-0004	KFD adaptor kit for Motorola XTS5000		
T03-00040-0005	KFD adaptor kit for Motorola XTS5000 HHCH		
TE1002DA000000AAAA	IP65 Device Yellow Standard Key Fill Support 1 year		
ITEM CODE	DESCRIPTION		
TPA-SV-020	TP/M9100 TP/M9400 TB9100 Encryption capable Motorola KVL Adaptor		
T03-00059-AAAA	KFD to TIA Radio Adaptor		
TE100200AA0000000	Anti-Reflective Screen Protector		
TE100200AB0000000	Deluxe Carry Case		
TE100200AC0000000	Vehicle Charging Kit		
TE100200AD0000000	Stylus		
TE100200AE0000000	Large Battery Pack		
TE100200AG0000000	Replacement Juno Serial Cable		
TE100200AF0000000	Micro SD card		
005-20019-00	Juno Host Adaptor ¹		
T03-22009-AAAA	TP9300 IS Programming Adaptor ¹		
T03-22009-ADAA	TP9400 IS Programming Adaptor ¹		
ITEM CODE	DESCRIPTION		
TKAS030	Key Fill Device SFE – Fast Key Fill		
TKAS032	Key Fill Device SFE – Standard Key Fill		

¹ Required for wired connection from KFD to IS Portables.

ENABLE SUITE EnableProtect

Environmental

Fully Rugged Design tested to Military Standards – MIL-STD-810G and IP68 (Black with yellow)

Dimensions: 6.1 x 3.2 x 0.9 inches (15.5 x 8.2 x 2.5 cm)

Weight: 13.5 ounces (0.4kg)

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)

This product includes cryptographic software written by

Eric Young (eay@cryptsoft.com)



EnableProtect Advanced System Key

The EnableProtect Advanced System Key solution includes the following features:

- USB keys to guard against unauthorized programming
 - Prime key

A prime key is provided pre-configured with an expiration date. The only function of the prime key is to enable configuration of pass keys using the Pass Key Configuration Utility.

• Pass key

A pass key, depending on its configuration, authorizes a user to program particular trunking system information and may also be used to control reading and programming of enabled radios.

- USB key expiration
 - Both prime keys and pass keys have a real-time clock and support a programmable expiration date (optional for prime keys, mandatory for pass keys) to force replacement of keys. Pass keys support a limit on the number of times they can be used to program radios. Prime and pass keys have an internal battery which requires the keys to be replaced every 4 years to ensure they are operational when required.
- Configuration Security
 - Read/write protection guards the radio asset. It protects against re-purposing a radio (for example, if stolen) and against misuse of a radio in an organization (for example, re-programming a radio with additional channel frequencies).
- Trunking protection
 - Trunking protection guards against a radio being programmed with trunking settings that would allow it to operate illegally on a trunked network.

The EnableProtect Advanced System Key is available as a starter kit which includes everything needed to begin use. Additional prime and pass keys can also be ordered. Note: Keys must be replaced every 4 years. Due to the secure nature of the Advanced System Key solution, there is a strict ordering process. Contact L3Harris representatives for assistance.

ITEM CODE	DESCRIPTION
TMAA23-03	EnableProtect Advanced System Key Starter Kit - x 1 Prime Key x3 Pass Keys
TMAA23-04	EnableProtect Advanced System Key Prime Key
TMAA23-05	EnableProtect Advanced System Key Pass Key

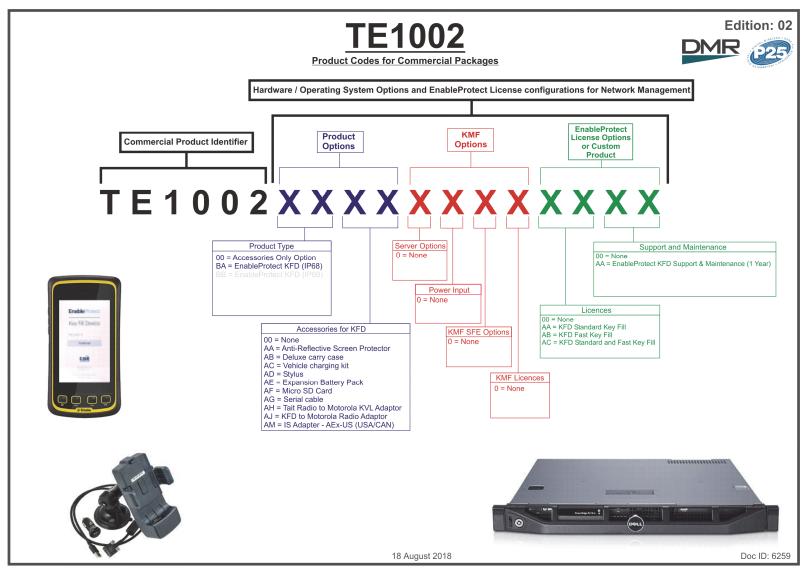
Software System Key (SSK)

For trunked networks where security is less of a concern, an SSK can be used to restrict radios being programmed to join the network.

L3Harris recommends that the EnableProtect Advanced System Key, not the SSK, be used in any network where security is a consideration. Due to the nature of the SSK, there is a strict ordering process. Contact L3Harris representatives for assistance.

ITEM CODE	DESCRIPTION
TMAA23-10	System Key CD P25 Trunked

ENABLE SUITE EnableProtect





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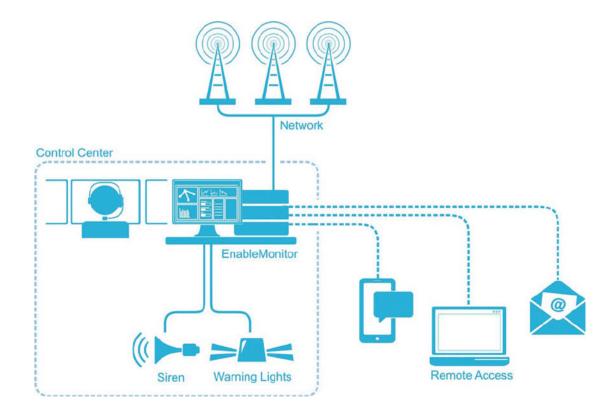
EnableMonitor

Overview

- Monitors the health of the L3Harris-Tait network.
- Helps users to anticipate and resolve issues before they threaten the communications that businesses depend on.
- As one part of the Enable Suite, EnableMonitor provides users all the tools needed to monitor the health of a radio network and reduce downtime.

KEY FEATURES

- Real-time system health status for early issue diagnosis
- Proof that the network is operating correctly
- Alerts and alarms when there is an issue
- Secure access to performance data anywhere, anytime
- Automatic discovery and configuration for easy setup
- Standards-based technology for interoperability
- Redundancy options for guaranteed performance
- Support for peace of mind



ENABLE SUITE

EnableMonitor

EnableReport

Overview

- Reports on the performance of the L3Harris-Tait DMR network.
- Allows users to generate and circulate vital network performance data to key decision makers, helping them to make informed business decisions in a timely manner.
- As one part of the Enable Suite, EnableReport provides detailed reporting options to help optimize network use, measure Key Performance Indicators (KPIs), and prove that the system is achieving the Service Level Agreements (SLAs).

KEY FEATURES

- Provides detailed reports on the performance of the DMR network
- Clearly shows KPIs and proves that the system is meeting its SLAs
- Includes various reporting options for the different parts of the network over time
- Supports the specific reporting needs of various businesses

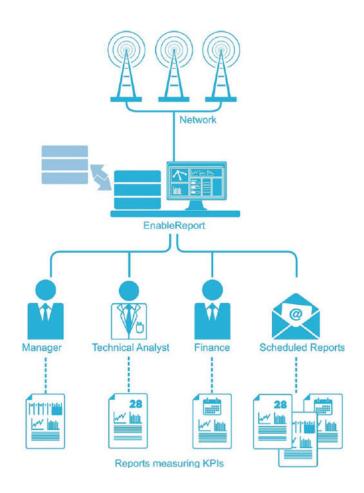
STANDARD REPORTS

- R1 Weekly call statistics
- R2 Weekly grade of service per site
- R3 Monthly network loading
- R4 Weekly talkgroup/fleet usage
- R5 Daily volume per site
- R6 Daily network loading
- R7 Daily talkgroup/fleet call volumes
- R8 Network Successful Traffic Calls
- R9 Network Successful Emergency Calls
- ▶ R10 Average On-Air Time by Call Type
- ▶ R11 Network Call analysis
- R12 Queuing per Site

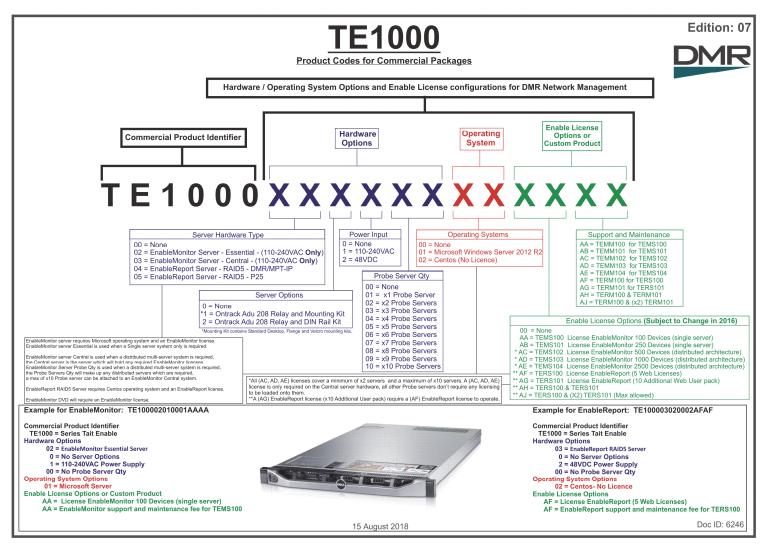
ENABLE SUITE

EnableReport

ENABLE SUITE EnableReport



Enable suite EnableReport



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EnableFleet

Overview

- Manages and configures radios from a central point of control.
- Provides accurate and reliable real-time fleet information, consistent installation results, and easy in-field programming for an entire fleet of mobile radios.
- As one part of the Enable Suite, EnableFleet allows users to manage the radio fleet with previously unachievable efficiency and certainty.

Key Features and Benefits

- Centralized radio configuration and firmware management
- Accurate and reliable fleet information
- Consistent installation results
- Cost-effective, easy in-field programming
- Easy delivery of updates using client application or Over-the-Air Programming (OTAP) for DMR, P25, and WiFi networks (WiFi-only available for Unified Vehicle-equipped mobiles)
- Automated client server updates and fleet status display
- File attachment support for installation auditing
- Optional additional protection for radio configuration (with EnableProtect ASK)
- Flexible server-side hosting options
- Scalable to suit small to large fleets

ENABLE SUITE

EnableFleet

General

Delivery Options -

- Server Installation Windows Server[®] 2016, SQL Server[®] 2014 on location with permanent licenses for terminals under management. See page 11.1-16 for ordering details.
- ▶ EnableFleet Manager Recent versions of Internet Explorer[®], Chrome[®], and Firefox[™]
- EnableFleet Client Any device with Windows® 7 or later
- ▶ Web Service HTTPS
- Time Stamping NTP synchronised
- Scalability: 100 to 15,000 terminals
- Recommended Options EnableProtect Advanced System Key
- Logs Audit Log, Error Log

Supported Devices and Networks -

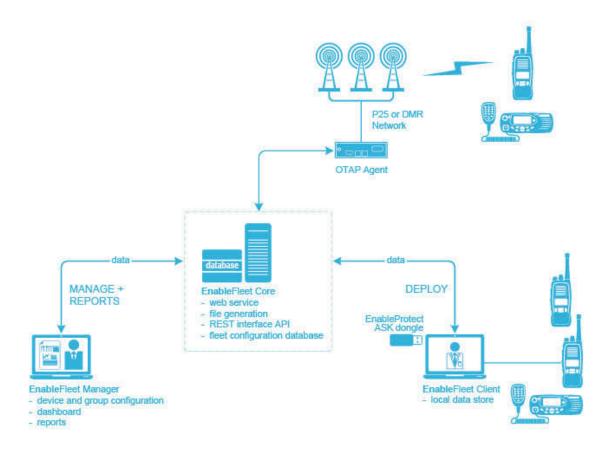
	Conventional	MPT	DMR Tier 2	DMR Tier 3	P25	P25 Trunked
	Analog		Conventional	Trunked	Conventional	
EnableFleet	TM9300/TP9300 TM9400/TP9400	TM9300/TP9300	TM9300/TP9300	TM9300/TP9300	TM9400/TP9400	TM9400/TP9400
EnableFleet with OTAP				TM9300/TP9300		TM9400/TP9400
EnableFleet with WiFi OTAP	TM9300 with Unified Vehicle*	TM9300 with Unified Vehicle*	TM9300 with Unified Vehicle*	TM9300 with Unified Vehicle*	TM9400 with Unified Vehicle*	TM9400 with Unified Vehicle*

*Note: EnableFleet currently only provides updates for the base mobile. Future capabilities will provide capacity to update the software running on the Unified Vehicle platform.

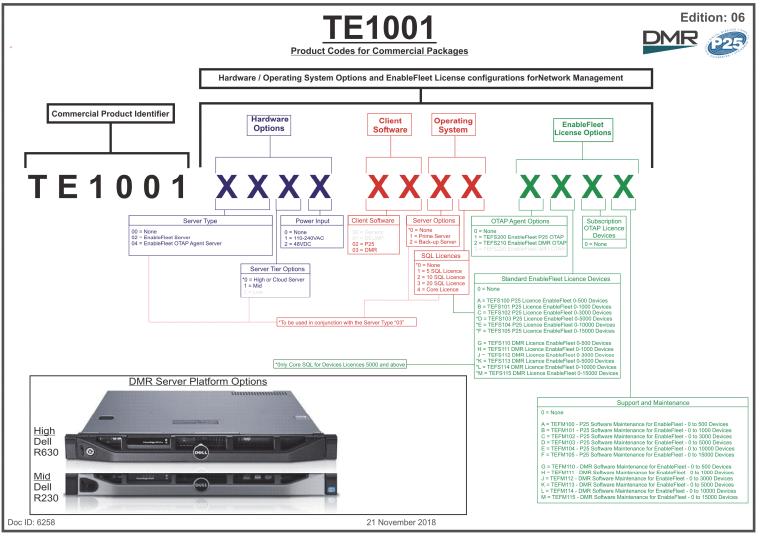
ENABLE SUITE

EnableFleet

ENABLE SUITE EnableFleet



EnableFleet



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EnableProtect

All prices are subject to the then current L3Harris Corporation Communications System Domestic Standard Conditions of Sale and are subject to change without notice.

Master Price List (USD)

Company Proprietary and Confidential

P25 Security - Key Management Facility (KMF)

E/C	Item Code	Description	List Price
S	TN9121-0000-10	KMF Server Package AC PSU	\$ 87,281.0
5	TN9122-0000-10	KMF Standby Server Package AC PSU	\$ 69,367.0
5	TN9123-0000-10	KMF Server Package DC PSU	\$ 87,281.0
5	TN9124-0000-10	KMF Standby Server Package DC PSU	\$ 69,367.0
Z 8 4 1	- Comvon Liconooc		
	F - Server Licenses		
	Item Code	Description	List Price
/C			List Price \$ 5,225.00
E/C	Item Code	Description	
/C	Item Code TKAS101	Description SFE KMF 1-150 Subscriber Units	\$ 5,225.00 \$ 20,318.00
	Item Code TKAS101 TKAS102	Description SFE KMF 1-150 Subscriber Units SFE KMF 151-1000 Subscriber Units	\$ 5,225.00

EnableProtect: P25 Security - Key Fill Device (KFD)

Key Fill Device (KFD)

E/C	Item Code	Description	List Price
S	TE1002DA000000AAAA	KFD IP65 yellow std key fill - 1 year	\$ 6,241.00
S	TE1002BB000000AAAA	KFD IP68 grey std key fill - 1 year	\$ 8,820.00
S	TE1002DA00000ABAA	KFD Fast Key Fill - 1 year	\$ 5,726.00
S	TE1002BB000000ABAA	KFD IP68 grey fast key fill - 1 year	\$ 7,560.00
S	TE1002DA00000ACAA	KFD Standard & Fast Key Fill - 1 year	\$ 7,262.00
s	TE1002BB000000ACAA	KFD IP65 grey - std/fast key fill 1y	\$ 9,765.00

E/C	Item Code	Description	List Price
s	TE100200AA00000000	Anti-Reflective Screen Protector	\$ 92.00
3	TE100200AB00000000	Deluxe carry case	\$ 175.00
3	TE100200AC0000000	Vehicle charging kit	\$ 212.00
S	TE100200AD0000000	Stylus	\$ 82.00
3	TE100200AE00000000	Large Battery pack	\$ 1,015.00
S	TE100200AG0000000	Juno Serial cable	\$ 258.00
S	TE100200AF00000000	Micro SD Card	\$ 29.00
S	TPA-SV-020	Adaptor for Motorola KVL & Tait Dev.	\$ 705.00
s	T03-00059-AAAA	Tait KFD to TIA Radio Adaptor	\$ 142.00

E/C	Item Code	Description	List Price
S	TKAS030	SFE KFD Fast Key Fill	\$ 1,022.00
S	TKAS032	SFE- KFD License Fast Key Fill	\$ 1,536.00
s	TKAS036	SFE KFD Fast Key Fill (TE1002)	\$ 768.00

EnableProtect: P25 Security - Tait Advanced System Key (TASK)

	Please contact your L3Harris Customer Care Representative to complete Doc 4104 - Tait System Key Request Authorisation Form for each order				
E/C	E/C Item Code Description List Pr				
S	TMAA23-03	TASK Starter Kit - 1Prime Key 3Pass Keys	\$	1,646.00	
S	TMAA23-04	TASK Prime Key	\$	838.00	
S	TMAA23-05	TASK Pass Key	\$	290.00	
TAS	K - System Key				
E/C	Item Code	Description	Lis	t Price	
S	TMAA23-10	Syst Key CD P25 Trunked	\$	32.00	

EnableMonitor

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Master Price List (USD)

Company Proprietary and Confidential

Ena	ableMonitor		
Enal	bleMonitor - Software wit	h Server	
E/C	Item Code	Description	List Price
S	TE100002010001AAAA	EnableMonitor SvrAC 100dev 1y	\$ 13,394.00
S	TE100002110001AAAA	EnableMonitor SvrAC Relay 100dev 1y	\$ 14,481.00
S	TE100002210001AAAA	EnableMonitor SvrAC RelayDIN 100dev 1y	\$ 14,481.00
S	TE100002010001ABAB	EnableMonitor SvrAC 250dev 1y	\$ 16,507.00
S	TE100002110001ABAB	EnableMonitor SvrAC Relay 250dev 1y	\$ 18,980.00
S	TE100002210001ABAB	EnableMonitor SvrAC RelayDIN 250dev 1y	\$ 18,980.00
S	TE100003010101ACAC	EnableMonitor SvrAC 1probe 500dev 1y	\$ 46,604.00
S	TE100003010201ACAC	EnableMonitor SvrAC 2probe 500dev 1y	\$ 51,078.00
S	TE100003010301ACAC	EnableMonitor SvrAC 3probe 500dev 1y	\$ 55,552.00
S	TE100003010101ADAD	EnableMonitor SvrAC 1probe 1000dev 1y	\$ 64,091.00
S	TE100003010201ADAD	EnableMonitor SvrAC 2probe 1000dev 1y	\$ 68,565.00
S	TE100003010301ADAD	EnableMonitor SvrAC 3probe 1000dev 1y	\$ 73,039.00
S	TE100003010101AEAE	EnableMonitor SvrAC 1probe 2500dev 1y	\$ 119,617.00
S	TE100003010201AEAE	EnableMonitor SvrAC 2probe 2500dev 1y	\$ 124,091.00
S	TE100003010301AEAE	EnableMonitor SvrAC 3probe 2500dev 1y	\$ 128,565.00
	bleMonitor - Support and	Maintenance	
E/C	Item Code	Description	List Price
S	TEMM100	EnableMonitor Sup. & Maint. 100dev 1y	\$ 1,629.00
S	TEMM101	EnableMonitor Sup. & Maint. 200dev 1y	\$ 2,146.00
S	TEMM102	EnableMonitor Sup. & Maint. 500dev 1y	\$ 6,493.00
S	TEMM103	EnableMonitor Sup. & Maint. 1000dev 1y	\$ 11,133.00
S	TEMM104	EnableMonitor Sup. & Maint. 2500dev 1y	\$ 23,101.00

EnableReport

All prices are subject to the then current L3Harris Corporation Communications System Domestic Standard Conditions of Sale and are subject to change without notice.

Master Price List (USD)

Company Proprietary and Confidential

En	ableReport		
Ena	bleReport - Software w	rith Server	
E/C	Item Code	Description	List Price
S	TE100004010002AFAF	EnableReport DMR SrvAC 5 Licenses 1y	\$ 32,352.00
S	TE100004020002AFAF	EnableReport DMR SrvDC 5 Licenses 1y	\$ 32,952.00
S	TE100004010002AHAH	EnableReport DMR SrvAC 15 Licenses 1y	\$ 44,352.00
S	TE100004020002AHAH	EnableReport DMR SrvDC 15 Licenses 1y	\$ 44,952.00
S	TE100004010002AJAJ	EnableReport DMR SrvAC 25 Licenses 1y	\$ 56,352.00
S	TE100004020002AJAJ	EnableReport DMR SrvDC 25 Licenses 1y	\$ 56,952.00
S	TE100005010002AFAF	EnableReport P25 SrvAC 5 Licenses 1yr	\$ 32,352.00
S	TE100005020002AFAF	EnableReport P25 SrvDC 5 Licenses 1yr	\$ 32,952.00
S	TE100005010002AHAH	EnableReport P25 SrvAC 15 Licenses 1yr	\$ 44,352.00
S	TE100005020002AHAH	EnableReport P25 SrvDC 15 Licenses 1yr	\$ 44,952.00
S	TE100005010002AJAJ	EnableReport P25 SrvAC 25 Licenses 1yr	\$ 56,352.00
S	TE100005020002AJAJ	EnableReport P25 SrvDC 25 Licenses 1yr	\$ 56,952.00

EnableFleet

All prices are subject to the then current L3Harris Corporation Communications System Domestic Standard Conditions of Sale and are subject to change without notice.

Master Price List (USD)

Company Proprietary and Confidential

	party r reprietary and ee		
En	ableFleet - P25		
Ena	bleFleet P25 On-Premi	se Server and MS Licenses	
E/C	Item Code	Description	List Price
S	TE1001020102110A00	EnableFleet P25 500dev SvrAC	\$ 36,063.00
S	TE1001020102111A00	EnableFleet P25 OTAP 500dev SvrAC	\$ 41,764.00
S	TE1001020102120B00	EnableFleet P25 1000dev SvrAC	\$ 54,267.00
S	TE1001020102121B00	EnableFleet P25 OTAP 1000dev SvrAC	\$ 59,976.00
S	TE1001020102130C00	EnableFleet P25 3000dev SvrAC	\$ 113,495.00
S	TE1001020102131C00	EnableFleet P25 OTAP 3000dev SvrAC	\$ 119,196.00
S	TE1001020102140D00	EnableFleet P25 5000dev SvrAC	\$ 172,350.00
S	TE1001020102141D00	EnableFleet P25 OTAP 5000dev SvrAC	\$ 178,052.00
Ena	hloEloot P25 On-Promi	se Support and Maintenance	
E/C	Item Code	Description	List Price
S	TEFM100	EnableFleet P25 support & maint. 500dev	\$ 2,716.00
S	TEFM101	EnableFleet P25 support & maint. 1000dev	\$ 5,432.00
S	TEFM102	EnableFleet P25 support & maint. 3000dev	\$ 7,605.00
S	TEFM103	EnableFleet P25 support & maint. 5000dev	\$ 11,950.00
Ena	bleFleet P25 - Hosted i	in the Cloud - Not available to federal customers that require g	overnment cloud security
E/C	Item Code	Description	List Price
S	TEFC120	EnableFleet, P25, Cloud, 100 Dev, 1 Yr, OTAP	\$ 800.00
S	TEFC130	EnableFleet, P25, Cloud, 100 Dev, 1 Yr	\$ 347.00
	bleFleet P25 Demo Lic		
E/C	Item Code	Description	List Price
S	TEFC150	EnableFleet, P25 Cloud, Demo	\$ 34.00
	bleFleet P25 Terminal		
E/C			List Driss
	Item Code	Description	List Price
S S	TMAS075 TPAS075	SFE - P25 OTAP	\$ 50.00 \$ 50.00

EnableFleet - DMR

Ena	bleFleet DMR On-Prem	ise Server and MS Licenses	
E/C	Item Code	Description	List Price
s	TE1001020103110G00	EnableFleet DMR 500dev SvrAC	\$ 34,346.0
s	TE1001020103112G00	EnableFleet DMR OTAP 500dev SvrAC	\$ 39,778.0
s	TE1001020103120H00	EnableFleet DMR 1000dev SvrAC	\$ 51,683.0
S	TE1001020103122H00	EnableFleet DMR OTAP 1000dev SvrAC	\$ 57,115.0
s	TE1001020103130J00	EnableFleet DMR 3000dev SvrAC	\$ 108,090.0
S	TE1001020103132J00	EnableFleet DMR OTAP 3000dev SvrAC	\$ 113,522.0
s	TE1001020103140K00	EnableFleet DMR 5000dev SvrAC	\$ 164,143.0
S	TE1001020103142K00	EnableFleet DMR OTAP 5000dev SvrAC	\$ 169,575.0
	bleFleet DMR On-Prem	ise Support and Maintenance	
E/C	Item Code	Description	List Price
3	TEFM110	EnableFleet DMR support & maint. 500dev	\$ 2,716.0
3	TEFM111	EnableFleet DMR support & maint. 1000dev	\$ 5,432.0
3	TEFM112	EnableFleet DMR support & maint. 3000dev	\$ 7,605.0
S	TEFM113	EnableFleet DMR support & maint. 5000dev	\$ 11,950.0
		in the Cloud - Not available to federal customers that require g	government cloud security
E/C	Item Code	Description	List Price
3	TEFC100	EnableFleet, DMR, Cloud, 100 Dev, 1 Yr, OTAP	\$ 800.0
5	TEFC110	EnableFleet, DMR, Cloud, 100 Dev, 1 Yr	\$ 347.0
	bleFleet DMR Demo Li		
E/C S	Item Code TEFC140	Description EnableFleet, DMR, Cloud, Demo	List Price
-	bleFleet DMR Terminal		\$ 34.0
E/C	Item Code	Description	List Price
<u>_/C</u> S	TMAS075-DMR	SFE Key - Mobile DMR Base OTAP Trunking	List Price \$ 50.0
- S	TPAS075-DMR	SFE Key - Portable DMR Base OTAP Trunking	\$ 50.0
-	bleFleet DMR TN9300	Server OTAP Licence	
E/C	Item Code	Description	List Price
S	TNAS308	License TaitNet DMR - OTAP	\$ 1,085.0

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GridLink – DMR SCADA



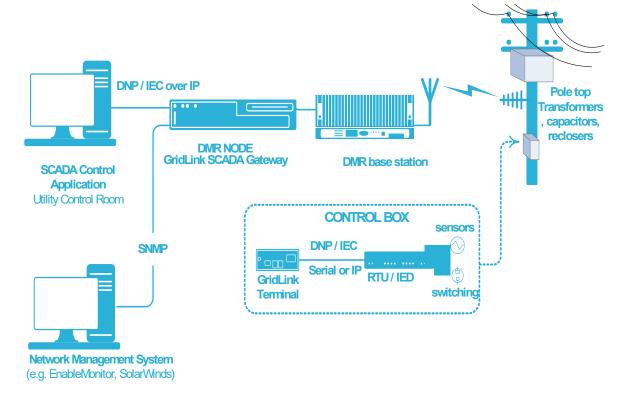
GRIDLINK OVERVIEW

The GridLink solution delivers wide-area SCADA transport services for a broad range of SCADA applications such as electrical distribution automation, water utilities, remote asset monitoring and management. GridLink enhances narrowband DMR Tier 3 network value proposition by enabling operational cost savings that result from a combined mission-critical voice and data network.

Many electric utilities are implementing field area networks in support of grid modernization, advanced metering infrastructure and distribution automation. Many rural and suburban areas are excluded from automation due to the high cost of scaling private broadband networks, including MESH. GridLink is ideal for rural and suburban pole top and pad mount switches, re-closers and capacitor banks.

The GridLink solution can deliver a broad range of utility use cases via a wide-area DMR radio network. The incremental cost to add GridLink to an existing mission-critical DMR voice network is far less than scaling MESH or private broadband to low density, low economic risk areas.

In a distribution automation system, GridLink provides secure, reliable wide-area transport of SCADA protocols such as IEC 60870-5, DNP3 or Modbus messages between a centralized management platform and field deployed remote telemetry units. These communication services can provide operational awareness to the hardest to reach locations and save time and money by providing remote access and diagnostics before field crews are deployed.



A DMR Tier 3-based Voice and SCADA solution offers the ideal platform to build your next wide area communication system business case around

To successfully deploy a GridLink system SCADA, ICT, Trunking and RF engineering considerations are essential. L3Harris can assist on all design, installation, commissioning and network management activities to ensure a successful outcome is achieved. For further information visit <u>https://premier/pspc.harris.com/infocenter/</u>.

The following sections provide essential product ordering information to be used when provisioning a GridLink system. Actual equipment required is dependent on specific system requirements, including any pre-existing equipment.

It is strongly recommended appropriate system engineering is performed to confirm system capacity and sizing, especially ensuring a stable and reliable TN9300 DMR T3 network as a pre-requisite for GridLink operation.

NETWORK EQUIPMENT

SCADA GATEWAY SERVER

The SCADA Gateway (SGW) has been designed and tested to be co-located on the same server used to provision the TN9300 DMR Trunked Node, or it can be provisioned on a separate server should system capacity or other network design considerations require.

The following SCADA Gateway deployment scenarios are possible:

- 1. Co-locate DMR Trunked node and SCADA Gateway on same server.
 - Co-location provides additional benefits for High Availability configurations.
- 2. SCADA Gateway on dedicated server.

Server	package	examples:
001701	puonago	onumpioo.

Server: DMR Trunked Node with SCADA Gateway – AC		
TN9300-3001-0000-0000-10	DMR Tier III Trunked Node with SCADA Gateway Hi Level AC	
TN9300-3101-0000-0000-10	DMR Tier III Trunked Node with SCADA Gateway Mid-Level AC	
TN9300-3201-0000-0000-10	DMR Tier III Trunked Node with SCADA Gateway Low Level AC	
Server: DMR Trunked Node	with SCADA Gateway – DC	
TN9300-3002-0000-0000-10	DMR Tier III Trunked Node with SCADA Gateway High Level 48VDC	
Server: SCADA Gateway-onl	y – AC	
TN9300-4001-0000-0000-10	DMR SCADA Gateway High Level AC	
TN9300-4101-0000-0000-10	DMR SCADA Gateway Mid-Level AC	
TN9300-4201-0000-0000-10	DMR SCADA Gateway Low Level AC	
Server: SCADA Gateway-onl	y – DC	
TN9300-4002-0000-0000-10	DMR SCADA Gateway High Level 48VDC	

Notes:

- Server sales packages come pre-installed; system-specific configuration and licensing are still required.
- GridLink is released on and supports the following server platforms: High level, Mid-level and Low level.
- It is strongly recommended guidance on capacity requirements is obtained from L3Harris when selecting Low-Level servers.

Software-only installation packages:

Software-only Installation – Node and SCADA Gateway	
TN9320-3300-0000-0000-10	DMR Tier 3 Trunked Node Controller + SCADA G/way S/W for Solaris10OS
TN9321-3300-0000-0000-10	DMR Tier 3 Trunked Node Controller + SCADA G/way S/W for CentOS

Software-only Installation – SCADA Gateway only	
TN9321-4300-0000-0000-10	DMR SCADA Gateway Software for Solaris10 OS
TN9320-4300-0000-0000-10	DMR SCADA Gateway Software for Centos6 OS

Notes:

- 1. Contact L3Harris Technical Support for access to software packages.
- 2. For first-time installations, an operational server running listed Solaris[®] or CentOS[™] OS is required.
- 3. Software installers can manage different target OS, i.e.:
 - a. For Solaris, a Virtual Machine (VM) based package is installed, or
 - b. For Centos, a native installation that does use a VM is installed (recommended deployment)
- 4. Server type, OS and application version compatibility should be considered; additional information can be obtained from following sources:
 - a. DMR Node installation manual for OS guidelines (MNB-00001-xx)
 - b. SCADA Gateway Installation and Configuration Manual (MNE-00020-xx)
 - c. L3Harris Technical Support

SCADA GATEWAY DATA TERMINAL ENABLEMENT

Network SCADA Licences	
TNAS357	License TaitNet DMR - SCADA Gateway Data Terminal Licenses 100
TNAS358	License TaitNet DMR - SCADA Gateway Data Terminal Licenses 200
TNAS359	License TaitNet DMR - SCADA Gateway Data Terminal Licenses 300
TNAS360	Licence TaitNet DMR - SCADA Gateway Data Terminal Licences 500
TNAS362	Licence TaitNet DMR - SCADA Gateway Data Terminal Licences 10000

Select the SGW license enabler to meet your system sizing needs

Notes:

- Combinations can be ordered. e.g. TNAS360 + TNAS358 (enables 700 terminals), or qty 2 TNAS358 (enables 400 terminals).
- A license request form will need to be completed.

SCADA GATEWAY ENCRYPTION AND HIGH AVAILABILITY

Commencing from SCADA Gateway release v1.12.01 (April 2018) and later, the following SFE or licenses are enabled in the factory when built or are now supported as standard features not requiring license enablement.

- 1. SCADA Gateway AES 256-bit Encryption (TNAS365)
- 2. SCADA Gateway high availability (TNAS367)

TNAS368 (installed on the DMR node) provides license price breaks for DMR node data operation. It delivers bundled TNAS303 and TNAS305 licenses. TNAS368 should **only** be purchased for use with GridLink.

Notes:

- GridLink provides end-to-end encryption between the SCADA gateway and TD9300 data terminal for SCADA messaging. This capability is independent and transparent to DMR network level encryption services.
- Key management is provided by a SCADA Gateway web configuration page.
- Server hardware and DMR node license provisioning for high availability will require appropriate consideration.

For SCADA gateway deployments prior to v1.12.01, the following licensing will need to be provisioned:

Network SCADA Licences	
TNAS365	Licence TaitNet DMR - SCADA AES 256 Encryption
TNAS367	Licence TaitNet DMR - SCADA High Availability (Not Available on Express Node)
TNAS368	License TaitNet DMR - SCADA License 1 per call

TN9300 TRUNKED DMR NETWORK ENABLEMENT

As part of any wider DMR network system design, the following DMR TN9300 network licenses should be considered during GridLink solution planning:

Network DMR Node Licences	
TNAS300	Licence DMR 3 Node Enabler without HA
TNAS320	License DMR 3 Express6 Node Enabler
TNAS302	Licence TaitNet DMR - High Availability Node Licence
TNAS303	Licence TaitNet DMR - DIP License
TNAS305	Licence TaitNet DMR – Data

Notes:

- DIP and Data licenses are mandatory and require system capacity engineering to define quantity.
- TNAS307 (DES encryption) is not applicable to the GridLink solution.
- TNAS303 and TNAS305 are not needed if TNAS368 is being used for SCADA data.

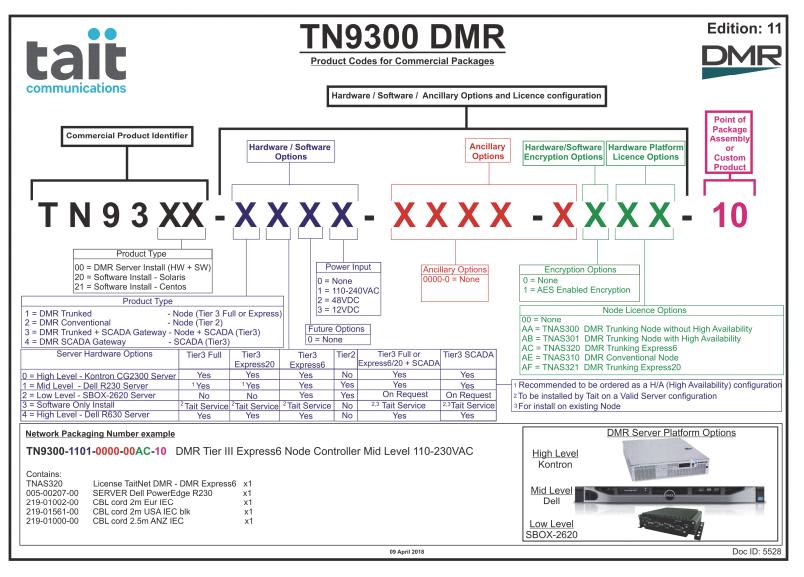
DMR base stations require the appropriate DMR trunking enablement SFE.

Base Station Licences	
TBAS300	SFE Key - DMR Trunking SFE Licence with TDMA operation (93)
TBAS302	SFE Key - DMR Express SFE Licence with TDMA operation (93)

Note: The GridLink solution does not operate on or support the L3Harris DMR Access operational mode.

Software maintenance and support are available on an annual renewal basis. Software maintenance ensures your software investment remains fully operational, high performing and current through updates that also include valuable new features – please contact your L3Harris Representative for further details.

GRIDLINK SOLUTION • SCADA DMR



TD9300 DATA TERMINAL

Overview

- VHF and UHF (136-174MHz, 400-470MHz). Other bands on request.
- Standards-based SCADA protocols:
 - IEC 60870-5-101, IEC 60870-5-104, DNP3, ModBus TCP/serial
- 9 36 volt DC input
- Digital in/out: 2 in, 2 out
- Extensive performance reporting
- Serial and Ethernet interfaces
- Data Encryption: AES 256 bit
- Remote monitoring SNMP V2.0c traps
- Protection: IP40 in all orientations, IP41 in one orientation
- Operating temperature: -30°C to 60°C



Standards

- EN300-086, -113, -219, EN301-489, EN60950
- CRF47
- RSS-119
- AS/NZS4295

For further details refer to MNE-00003-xx, TD9300 Data Terminal Installation and Configuration Manual.

TD9300 Models and RF Band Availability

The TD9300 data terminal is available in several models and RF bands as per the table below:

TD9300 models	and RF Band Availability		
Model	TD9355-xx00	TD9355-xx0A	TD9355-xx0C
	(non-isolated)	(isolated v1)	(isolated v2)
Description	Signal ports and DC	Signal ports only isolated	Signal ports and DC
	input not isolated		input isolated
RF output	25W	5W	25W
power (max)			
RF bands	B1 (136-174MHz)	B1 (136-174MHz)	B1 (136-174MHz)
	H5 (400-470MHz)	H5 (400-470MHz)	
Notes		Customer specific	
		 Not for new deployments 	

DATA TERMINAL – SALES PACKAGE

Includes:

- SCADA Data Terminal x1
- Screw Terminal DC Power Connector 2 way x1
- Screw Terminal Digital I/O Connector 4 way x2
- Mounting Screws Black M4x12 x4
- Note: No cables are provided as Standard with Data Terminal packages

DATA TERMINAL – LICENSE ENABLEMENT

Commencing from TD9300 data terminal release v1.12.01 and later, the following license is no longer required as it is now provided as standard capability:

1. TDTS100 SFE Key - SCADA AES 256 Encryption

For all TD9300 data terminal releases prior to v1.12.01 if 256-bit AES encryption is required, the TDTS100 license will need to be obtained and installed.

Note: Key management is provided by a TD9300 web configuration page.

DATA TERMINAL – TM9300 MOBILE LICENSES

The TD9300 Data Terminal includes a TM9300 sub-assembly that provides the DMR Tier 3 Common Air Interface (CAI) radio modem. Commencing from June 2018, the following SFE is no longer required as it is now provided as standard capability:

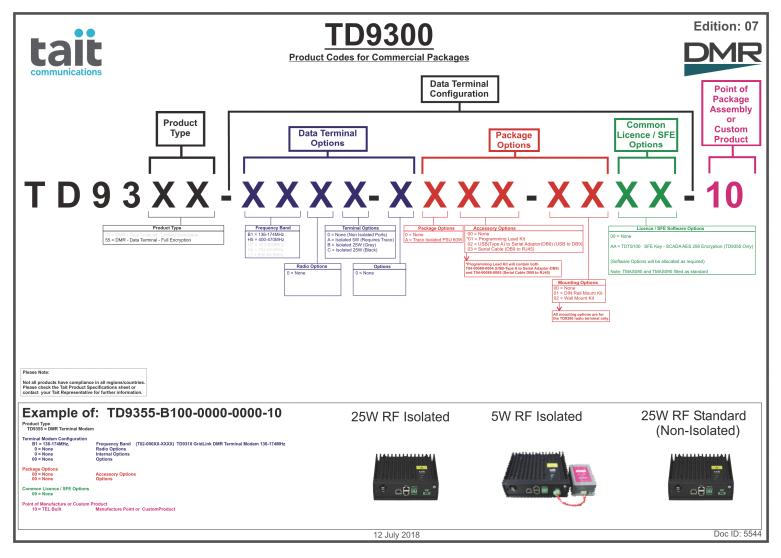
Factory-fitted TM9300 Terminal Licences	
TMAS075-DMR	SFE Key - OTAP

Note: If TM9300 OTAP capability is required, the following considerations are also needed:

- a. EnableFleet server, application and licensing.
- b. Configuration of TM9300 OTAP/data settings
- c. EnableFleet database pre-deployment registration

The following additional TM9300 licenses could be considered at order time depending on specific system requirements.

TM9300 Terminal Licences	
TMAS104	SFE Key - Extended Hunt List Capacity (93)



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DATA TERMINAL – ACCESSORIES

Data Terminal Mounting Kits				
T04-00088-0000	TD9000 DIN Rail Mount kit			
T04-00088-0001	TD9000 Wall Mount Kit			
Data Terminal Radio Prog	gramming and Serial RTU Interconnection			
T04-00088-0004	TD9000 USB to Serial Adaptor			
T04-00088-0005	TD9000 Serial Cable DB9 to RJ45			
Data Terminal Ancillary It	ems			
219-03282-00	TD9000 Ethernet Cable .5M Assembly			
219-03288-00	TD9000 Ethernet Cable .75M Assembly			
219-03283-00	TD9000 Ethernet Cable 1M Assembly			
219-03284-00	TD9000 Ethernet Cable 1.5M Assembly			
219-03285-00	TD9000 Ethernet Cable 2M Assembly			
219-03286-00	TD9000 Ethernet Cable 3M Assembly			

Note:

- a. For radio programming, a USB-to-serial and TD9000 DB9-to RJ45 cable is required.
- b. The TD9300 serial interfaces are NOT compatible with TM9300 USB-to-RJ11 cable, TPK-SV-009.



T04-00088-0005 TD9300 Serial Cable DB9 to RJ45



T04-00088-0004 TD9300 USB-to-Serial Adaptor

Acronym Descriptions

AES	-	Advanced Encryption Standard
AIS	-	Automatic Identification System
CAI	-	Common Air Interface
DSCADA	-	Distribution Supervisory Control and Data Acquisition
DES	-	Data Encryption Standard
DIP	-	Dispatcher Inference Protocol
DMR	-	Digital Mobile Radio
DNP3	-	Distributed Network Protocol
IEC	-	International Electrotechnical Commission
IP	-	Internet Protocol
MIB	-	Management Information Base
OTAP	-	Over-the-Air Programming
RTU	-	Remote Terminal Unit
SCADA	-	Supervisory Control and Data Acquisition
SFE	-	Software Feature Enabler
SGW	-	SCADA Gateway
SIP	-	Session Initiation Protocol
SNMP	-	Simple Network Management Protocol
TDMA	-	Time Division Multiple Access
USB	-	Universal Serial Bus

All prices are subject to the then current L3Harris Corporation Communications System Domestic Standard Conditions of Sale and are subject to change without notice.

Master Price List (USD)

Company Proprietary and Confidential

GridLink ioi E/C S Item Code Description List Price TN930032010000000 Server, TN9300, DMR, SCADA, Low Level, AC 5,210.00 \$ s TN930031010000000 Server, TN9300, DMR, SCADA, Mid-Level, AC 7,055.00 \$ s TN932033000000000 Server, TN9300, DMR, Cntrlr SCADA, Solaris10 \$ 2,328.00 s TN9321330000000000 Server, TN9300, DMR, Cntrlr SCADA, Centos 2.328.00 \$ TN930030010000000 S Tier3 SCADA Control Hi Lvl 110-230VAC \$ 26,039.00 **TD9300 - SCADA Gateway Licenses** E/C Item Code Description List Price s TNAS357 License, SCADA Gtwy Data Terminal x100 \$ 4,048.00 s License, SCADA Gtwy Data Terminal x200 TNAS358 \$ 7,691.00 S TNAS359 License, SCADA Gtwy Data Terminal x300 \$ 11,132.00 S License TaitNet DMR - SCADA Gateway 500 TNAS360 \$ 15,500.00 TD9300 - DMR Data Terminal E/C Item Code Description List Price TD9355B1000000000 Full Crypto 25W 136-174MHz S \$ 1,395.00 s TD9355H50000000000 Full Crypto 25W 400-470MHz \$ 1,395.00 **TD9300 - Data Terminal Accessories** E/C Item Code Description List Price T04-00088-0000 TD9000 Basic DIN Rail Bracket Kit s 55.00 \$ T04-00088-0001 TD9000 Wall Mount Kit S \$ 20.00 S T04-00088-0004 TD9000 USB to Serial Adaptor \$ 71.00 T04-00088-0005 TD9000 Serial Cable DB9 to RJ45 S \$ 32.00

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Unified Vehicle



OVERVIEW

Unified Vehicle is a multi-bearer communications hub, offering a high level of connectivity, with access to LMR, cellular, and WiFi[®]. This flexible communications solution can maximize customer's workforce productivity and safety today and will allow the evolution of customer solutions for the organization's needs.

This single integrated device combines connectivity, application processing, storage, and communications in a powerful, easy-to-use open standards platform. Unified Vehicle is made to evolve and protect the customer's investment with the ability to deliver a range of voice and data solutions for current and future needs of users and operators.

Unified Vehicle utilizes a vehicle area network that travels with the user, includes analog and digital radio, WiFi and wired Ethernet, cellular (LTE), and – in the future – satellite. This multi-bearer connectivity ensures urgent communications, voice or data, always get through. The AppBuilder platform allows information collection and decisions to be made based on a wider network of sensors, monitoring equipment, and devices.

RESIDENT APPLICATIONS

SYSTEM FUNCTIONALITIES

- ► Unified Vehicle Remote application supporting voice calls between Android[™] devices and LMR. The tested hardware and operating system is the Sonim XP7[®] (Android 5.1.1). Compatibility with other devices is likely possible, however, they are yet to be qualified.
- WiFi Over-the-Air-Programming (OTAP) of the mobile radio configuration and firmware updates (requires EnableFleet OTAP application).
- On-Board Voice Recording.
- ► AppBuilder.
- ▶ Multi-bearer connections LMR, 2.4GHz/5GHz WiFi, and cellular connectivity.
- External WiFi antenna options (must be specified when ordering)

LMR COMPATIBILITY

	Remote Application	WiFi OTAP	Voice Recording	AppBuilder
DMR Trunked Tier 3	\checkmark	\checkmark	\checkmark	\checkmark
DMR Conventional Tier 2	\checkmark	\checkmark	\checkmark	\checkmark
MPT	×	\checkmark	\checkmark	\checkmark
P25 Trunked	\checkmark	\checkmark	\checkmark	\checkmark
P25 Conventional	\checkmark	\checkmark	\checkmark	\checkmark
Analog Conventional	×	\checkmark	Future	\checkmark

COVERAGE

WiFi connectivity in a moving environment, such as Unified Vehicle, is variable dependent on several factors including the installation position, surrounding obstacles, smartphone type, etc.

WIFI OTAP

With access to the customer WiFi network, Unified Vehicle-equipped mobiles (P25/DMR trunked and conventional) can be reprogrammed using the EnableFleet server connected to a suitable OTAP Agent. This reduces the load on the LMR network and improves the speed and ease of updating the entire fleet. This can be very useful when migrating from Analog/MPT to digital networks.

ON-BOARD VOICE RECORDING

The on-board voice recording application will record all audio transactions, both transmit and receive (excludes analog LMR). The voice recordings can be accessed via the Unified Vehicle web interface (a web portal). If a time source is available, the files will be time-stamped; if a time source is not available, the files will be recorded in chronological order. Over 100 hours of radio traffic recordings can be saved on a 16GB SD card. Once the card reaches capacity, it will start overwriting the older files. A 16GB SD card is fitted as standard (up to 64GB can be fitted as a custom option).

UNIFIED VEHICLE REMOTE APPLICATION

The Unified Vehicle Remote Application allows an Android smartphone to remotely control the mobile unit, permitting group LMR calls to be received and transmitted and individual calls to be received on Android smartphones (Sonim smartphones are recommended). Emergency calls can also be activated from the smartphone. The application is available on the Google Play[™] store.

The Unified Vehicle Remote Application does not provide full control of the radio and cannot be used as a remote head. The radio is programmed to support a Work Group UI.



Figure 1: Unified Vehicle Remote Application User Interface

UNIFIED VEHICLE REMOTE APPLICATION USE CASE

Using the Remote Application, lone workers with an Android smartphone can connect to their vehicle radio via WiFi, which allows them to monitor and join conversations when away from the vehicle. They can now work outside the vehicle without risk of missing vital communications.

If a problem occurs, the worker can make an emergency call to the dispatch center over the radio network, with options to allow emergency voice cycling to take place. This hands-free, time-based capability aids communication when the worker is incapacitated.



Figure 2: Android device communicates with radio network users via Unified Vehicle





UNIFIED SOLUTIONS Unified Vehicle

UNIFIED VEHICLE APPBUILDER

Unified Vehicle supports an application builder which is a purpose-designed tool for channel partners, integrators, and customers to easily program and control various aspects of their communications and invehicle connectivity. This makes programming outcomes such as alerts on various devices connected to the user's communication system easy and quick to achieve.

This application-building tool allows users to identify, define, and make decisions based on a range of events and inputs. These inputs could be from laptops, street signs, portable radios, vehicles, elevators, electric doors and windows, environmental sensors, on-board vehicle diagnostics, Bluetooth[®] tags, websites, alarms, etc.

A demo version is available free on all Unified Vehicle units. The demo version allows access to the full AppBuilder functionality; however, communication is terminated after 90 minutes. All programs built are saved and available again after a simple reset. This is ideal for testing, training, and even customer demos. A license is required to upgrade to the commercial version for all units running the applications.

Applications can be created using one of two intuitive AppBuilder interfaces. The behavior-based interface allows users to quickly create applications using dropdown boxes. The flexible node-based interface allows users to quickly create complex applications using a drag-and-drop system.

BEHAVIORS INTERFACE

The behavior-based version of AppBuilder is the simplest way to create custom solutions. Each solution is created based on a series of four dropdown menus. A simple example is shown below in which the following rule is implemented: if a GPIO input changes, display a notification on the LMR radio screen.

Source	E	vent	+	Destination		Action	
Click to enter description							
Tait Unified Platform	•	GPIO Input changed	7	Tait Unified Platform	*	Display a notification	¢ ×

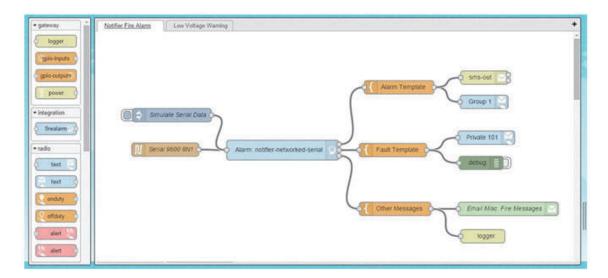
The tool, however, is capable of additional behavior solutions. The diagram below illustrates an example where multiple simple rules are used to create a more powerful program.

iource	Event	-	Destination	Action	
Click to enter description					
Interval timer •	Event fired when timer 'ticks'	- T	Tait Unified Platform	Control GPIO pin	0,0
Click to enter description					
Tait Unified Platform	GPIO Input changed	- -	Tait Unified Platform	Display a notification	• •
Click to enter description					
Tait Unified Platform	GPIO Input changed	· T,	Tat Unified Platform	Set emergency mode	•
Click to enter description					
Tait Unified Platform	GPIO Input changed	· T,	Tait Unified Platform	Control GPIO pin	• •
Olick to enter description					
Tait Unilied Platform -	GPIO Input changed	- ¥	Tait Unified Platform	- Control GPIO pin -	• •

UNIFIED SOLUTIONS

NODE-BASED INTERFACE

The node-based version of the AppBuilder provides a flowchart-like format that allows users to build and edit workflows for complex solutions without the need for coding/programing. It supports a range of solutions from simple timers to sophisticated workforce deployment applications. Below is an example of the node connection method creating a fire alarm which sends alerts to digital radios and mobile phones.



HARDWARE OVERVIEW

WiFi-Only Models

- Support for alphanumeric display-capable TM9300 DMR and TM9400 P25 mobiles.
- Unified Vehicle Remote application supporting voice calls between Android devices and LMR. The tested hardware and operating system is the Sonim XP7 (Android 5.1.1). Compatibility with other devices is likely possible, however, they are yet to be qualified.
- WiFi Over-the-Air-Programming (OTAP) of the mobile radio configuration and firmware updates (requires EnableFleet OTAP application).
- Unified Vehicle AppBuilder.
- External WiFi antenna options.
- 2.4GHz and 5GHz WiFi connection.
- 16GB SD card fitted standard (up to 64GB can be fitted as a custom option).
- The Unified Vehicle platform uses a Linux[®] Open Embedded operating system, 600 MHz ARM[®] Coretex[®] A8 processor, 1GB Flash memory, and 512MB DDR3. Connectivity includes IEEE 802.11b/g/n and Ethernet.

	Remote Application	WiFi OTAP	Voice Recording	AppBuilder
DMR Trunked Tier 3	\checkmark	\checkmark	\checkmark	\checkmark
DMR Conventional Tier 2	\checkmark	\checkmark	\checkmark	\checkmark
MPT	×	\checkmark	\checkmark	\checkmark
P25 Trunked	\checkmark	\checkmark	\checkmark	\checkmark
P25 Conventional	\checkmark	\checkmark	\checkmark	\checkmark
Analog Conventional	×	\checkmark	Future	\checkmark

Cellular-Capable Models

- Region-specific cellular (including LTE) data connectivity.
- Unified Vehicle AppBuilder.
- Dual SIM
- 5GHz WiFi and 2.4GHz WiFi connection.
- External antenna required.
- Support for alphanumeric display-capable TM9300 DMR and TM9400 P25 mobiles.
- Unified Vehicle Remote application supporting voice calls between Android devices and LMR. The tested hardware and operating system is the Sonim XP7 (Android 5.1.1). Compatibility with other devices is likely possible, however, they are yet to be qualified.
- WiFi Over-the-Air-Programming (OTAP) of the mobile radio configuration and firmware updates (requires EnableFleet OTAP application).
- 16GB SD card fitted standard (up to 64GB can be fitted as a custom option).

• The Unified Vehicle platform uses a Linux Open Embedded operating system, 600 MHz ARM Coretex A8 processor, 1GB Flash memory, and 512MB DDR3. Connectivity includes IEEE 802.11b/g/n, 3G, LTE and Ethernet.

LMR Network Compatibility

	Remote Application	WiFi OTAP	Voice Recording	AppBuilder
DMR Trunked Tier 3	\checkmark	\checkmark	\checkmark	\checkmark
DMR Conventional Tier 2	\checkmark	\checkmark	\checkmark	\checkmark
MPT	×	\checkmark	\checkmark	\checkmark
P25 Trunked	\checkmark	\checkmark	\checkmark	\checkmark
P25 Conventional	\checkmark	\checkmark	\checkmark	\checkmark
Analog Conventional	×	\checkmark	Future	\checkmark

Future Capabilities

Future releases of Unified Vehicle will add support for:

- Bluetooth Data
- Satellite
- API/SDK

CELLULAR CONNECTIVITY OPTIONS

- M0 A WiFi and cellular-ready option. This configuration has no SMA connectors exposed; no external antennas can be connected, therefore the WiFi and cellular functionality is not available. The Ethernet port is available on the front of this unit.
- M3 A WiFi-only option with the capacity to add cellular capability at a later date. This configuration has one SMA connector exposed for the WiFi antenna.
- M4 North America-specific cellular option. This is compliant for operation in North America, please refer to the table below for specific bands. Additional carrier compliance may also be required (L3Harris is working to obtain in some countries, so please contact your L3Harris Representative for more details). The front panel has three SMA connectors for connection with external antennas. This option also has dual SIM capability.

Note: Not all cellular options have compliance in all regions/countries. Please check the compliance matrix below or contact your L3Harris Representative for further information.

Region\Detail	Regulatory Compliances	Regional Approvals	Supported Frequency Bands	Carrier Approvals
M4/US & Canada	FCC, IC	PTCRB	• 4G/LTE: 1900(B2), AWS1700(B4), 850(B5), 700(B12/13)	
			• 3G: 1900(B2), 850(B5)	

Unified Vehicle

MEMORY CARD OPTIONS

Standard package includes:

▶ 0 – Unified Vehicle comes standard with a 16GB memory card fitted

RADIO BODY OPTIONS

 Unified Vehicle is compatible with a remote-control head or hand held control head configuration of the TM9300/TM9400 mobiles

P25 SFEs INCLUDED

- ► TMAS059 MDC1200
- ▶ TMAS065 Two-Tone Decode
- ► TMAS083 20/25kHz Channel Restrictions (wideband)
- ► TMAS108 Unified Vehicle API

DMR SFEs INCLUDED

- ► TMAS031 MPT Trunking
- ► TMAS083 20/25kHz Channel Restrictions (wideband)
- ▶ TMAS081 GPS Hardware/Location Services
- ► TMAS087 Voice Annunciations
- ► TMAS097 DMR Conventional (Tier 2)
- ► TMAS102 ARC4 Encryption
- ► TMAS108 Unified Vehicle API

Important Note: Any additional SFEs for these mobiles must be ordered separately.

EXTERNAL SPEAKER OR MOBILE UPGRADE OPTIONS

Speaker options for factory fitted kits:

- ▶ 0 No external speakers
- ▶ 1 Includes an external speaker for HHCH options

Unified Vehicle can be purchased factory fitted (TU2000) or as an upgrade kit for existing TM9300/TM9400 mobiles. The appropriate kit must be ordered based on the current configuration of the mobile – see CPPN on Page 11.1-48 for options.

- ► A Upgrade kit for a TM9300 DMR or TM9400 P25 mobile currently with a fixed-head configuration. This kit adds the Unified Vehicle option and contains the necessary parts to remotely mount the control head.
- ► B Upgrade kit for a TM9300 DMR or TM9400 P25 mobile currently with an HHCH or remote LCH configuration. This kit adds Unified Vehicle to the current configuration.
- C Kit adds the cellular options (M4) to cellular-capable formats (M0 or M3). The front panel has three SMA connectors for connection with external antennas.

ACCESSORIES

ANTENNAS

WiFi-Only Antenna

Suitable where WiFi-only will be utilized on Unified Vehicle and will increase the WiFi coverage that can be achieved compared with the internal WiFi antenna. This antenna operates in both the 2.4GHz and 5GHz bands.

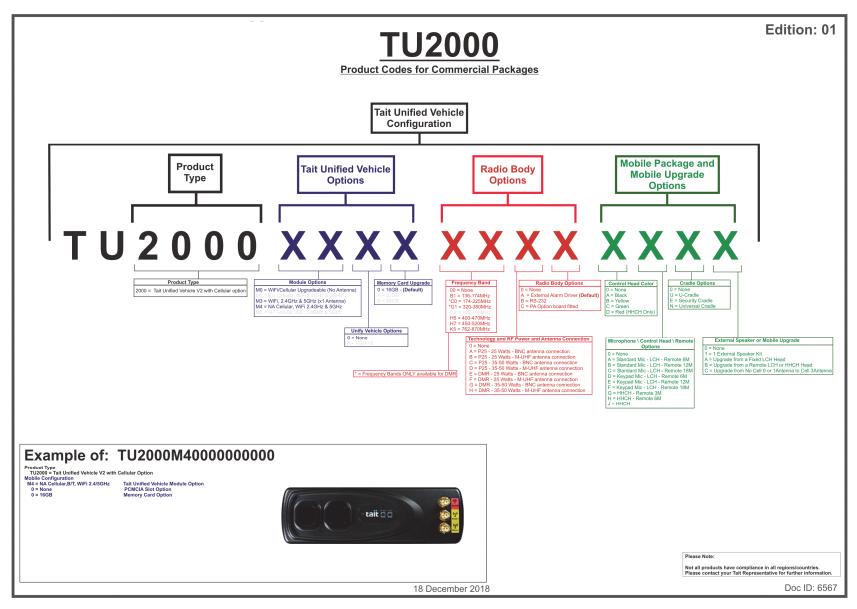
Multi-Function Antenna

This antenna contains elements for a 2.4 WLAN antenna, a 5GHz WLAN antenna, and two cellular antennas for diversity and is compliant for LMR, WiFi, Bluetooth, and Cellular releases of Unified Vehicle.

Single WiFi Antenna Kit	Single WiFi Antenna Kit					
T05-00031-0004	Antenna Kit - WiFi 2.4/5GHz Ext SMA (includes cable)					
Multi-Function Antenna Kit	Multi-Function Antenna Kit					
T05-00031-0001	Antenna Kit - Multi-Element Antenna with BNC Adaptor (includes cables)					
T05-00031-0002	Antenna Kit - Multi-Element Antenna with Mini UHF Adaptor (includes cables)					
T05-00031-0003	Antenna Kit - Multi-Element Antenna with No Adaptors (includes cables)					

The next page contains the Cellular-capable Unified Vehicle Product Codes for Commercial Packages (PCCP).

UNIFIED SOLUTIONS



P25, DMR • UNIFIED SOLUTIONS



All prices are subject to the then current L3Harris Corporation Communications System Domestic Standard Conditions of Sale and are subject to change without notice.

Master Price List (USD)

Company Proprietary and Confidential

Unified Vehicle

P25 WiFi/Cellular (3x Antenna)

F ZJ N	r 25 Will Noendial (5X Aliterina)						
E/C	Item Code	Description	List Price				
S	TU2000M400K5DAAAU0	P25Cell 762-870M 50W MUHF Mic UCdl 3Ant	\$ 2,355.00				
S	TU2000M400K5DAADU0	P25Cell 762-870M 50W MUHF KMic UCdl 3Ant	\$ 2,455.00				
S	TU2000M400K5DAAHU0	P25Cell 762-870M 50W MUHF HHCH UCdl 3Ant	\$ 2,249.00				
DMR	DMR WiFi/Cellular (3x Antenna)						
E/C	Item Code	Description	List Price				
S	TU2000M400K5HAAAU0	DMRCell 762-870M 50W MUHF Mic UCdl 3Ant	\$ 1,759.00				
S	TU2000M400K5HAADU0	DMRCell 762-870M 50W MUHF KMic UCdl 3Ant	\$ 1,859.00				
S	TU2000M400K5HAAHU0	DMRCell 762-870M 50W MUHF HHCH UCdl 3Ant	\$ 1,669.00				

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TeamPTT™



TEAMPTT OVER CELLULAR SOLUTION

OVERVIEW

TeamPTT is a push-to-talk system for cellular infrastructures that can connect to land mobile radio (LMR) to provide communications to wide geographical areas. It is a secure, IP-based communications solution that can bridge LMR networks (Analog, P25, MPT-IP or DMR) to cellular communications through the TeamPTT infrastructure and smartphone application.

The TeamPTT application (available for Android[™] and iOS[®] devices) operates over any IP bearer (3G/4G, WiFi[®]) that works with L3Harris-Tait radio networks when connected. It supports a wide range of smartphones and tablets, which makes it easier for users who are unfamiliar with radios to interact with a private radio network.

The main advantages of combining the TeamPTT network with L3Harris-Tait private networks are

- Improved coverage and the ability to communicate when beyond the service area of the radio network or when in-coverage black-spots, such as in buildings, parking lots, or tunnels where cellular or Wi-Fi signals are present.
- Increased number of users and the ability to enable non-radio users to participate in group communications.
- Greater discretion to enable covert users, such as undercover detectives and investigators, to communicate using a standard smartphone to better blend in to their surroundings.

A basic TeamPTT network consists of

- the customer's end user devices, such as smartphones, running the TeamPTT application
- the TeamPTT on-premise server
- an internet connection between the end user devices and servers, such as cellular or Wi-Fi
- an optional connection to an LMR network

The TeamPTT network connects to L3Harris-Tait radio networks to increase coverage (radio frequency (RF) and users) through a range of connection options with dedicated interfaces, such as AIS (MPT-IP or DMR Trunking) and ISSI (P25 Trunking), and through the TN8271 Network Gateway. The gateway converts audio from a range of LMR equipment or suitable 4-wire E&M connection to an audio data stream for TeamPTT.

L3Harris-Tait radio networks typically consist of several sites, and one or more controllers that are interconnected using an IP backbone. Each site consists of base stations that provide the radio link to the radio users. The controller supervises the overall management and configuration of the network, and controls and switches the audio for all group and individual calls between different sites.

To successfully connect to the TeamPTT network, the L3Harris-Tait radio network may need to be upgraded to handle the extra load of additional calls.

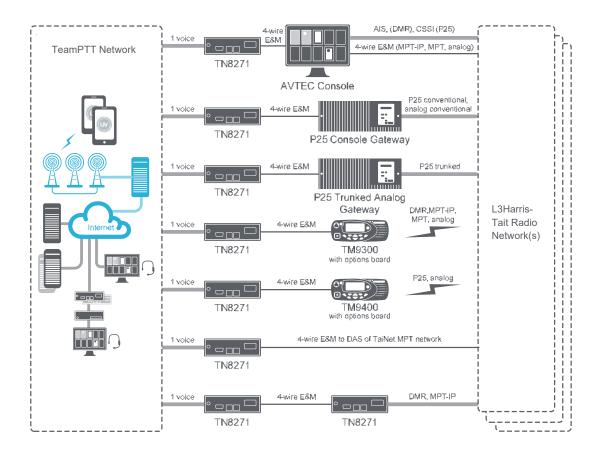


Figure 1. Connectivity options between TeamPTT network and L3Harris-Tait Radio networks

*For the TeamPTT network, the TN8271 Network Gateway is sold including installation services as products TUSE601 and TUSE602.

TEAMPTT LICENCES AND GATEWAYS

ON-PREMISE SERVER – L3HARRIS-TAIT-PROVIDED SERVER

User Permanent Licenses

Item Code	Description
TNAS606	25 TeamPTT Licenses - Customer Hosted upfront cost
TNAS607	100 TeamPTT Licenses - Customer Hosted upfront cost
TNAS605	5 Extra TeamPTT Licenses - Customer Hosted upfront cost (Pre-requisite TNAS606 or TNAS607)

LMR Integration Gateway and Services

Item Code	Description
TT0008-0001	Service – TeamPTT on Prem Mid Lvl w/Serv
Optional Items	Description
TUSE600	SSL certificate per equipment
TUSE601	Service – Initial TeamPTT Gtwy w/Serv
TUSE602	Service - 1 Extra TeamPTT Gtwy w/Serv
TPTM604	Service - TeamPTT Regional License Disp 1 User (Mth)
TUSE604	Service - TeamPTT VPN Gateway/Services
TPTM605	Service – TeamPTT OnPrem Maint Add 5 Users (1 Yr)
TPTM607	Service – TeamPTT OnPrem Maint 100 Users (1 Yr)

CELLULAR + WIFI WITH LMR INTEGRATION

LMR Integration Gateway and Services

Item Code	Description
TNAS608	License - TeamPTT per ISSI connection
TNAS609	License - TeamPTT per AIS connection
TNAS610	License -Concurrent Call (for AIS/ISSI)
Item Code	Description
TUSE601	TeamPTT - Initial TN8271 Gateway with Services attached
TUSE602	TeamPTT - 1 Extra TN8271 Gateway with Services attached (Prerequisite TUSE601)
Service Items	Description
TPTM604	Service - TeamPTT Regional License Disp 1 User (Mth)

GLOSSARY AND DEFINITIONS

AIS	Application Interface Specification (DMR Association)
AS-IP	Analog Simulcast over IP
DMR	Digital Mobile Radio
E&M	Ear & Mouth
HTTPS	Secure Hypertext Transfer (or Transport) Protocol
IP	Internet Protocol
ISSI	Inter-RF Subsystem Interface (P25 standardized interface)
LAN	Local Area Network
LMR	Land Mobile Radio
MPT	Industry standard for trunked radio communications networks
MPT-IP	MPT over IP
NMS	Network Management System
NTP	Network Time Protocol
P25	Project 25
PTToC	Push-To-Talk over Cellular
RF	Radio Frequency
SNMP	Simple Network Management Protocol
WAN	Wide Area Network

CELLULAR INTEGRATION



All prices are subject to the then current L3Harris Corporation Communications System Domestic Standard Conditions of Sale and are subject to change without notice.

Master Price List (USD)

Company Proprietary and Confidential

TeamPTT

Теа	mPTT Regional Ser	ver	
E/C	Item Code	Description	List Price
S	SLA0011001AB000000	Service - Team PTT on Prem Mid LvI w/Serv	\$ 7,271.00
S	SLA0012001AC000000	TeamPTT VPN Client AC 110-240VAC	\$ 4,510.00
Теа	mPTT Licenses		
E/C	Item Code	Description	List Price
S	TNAS605	License - 5 Extra TeamPTT On Premise	\$ 4,188.00
S	TNAS606	License - 25 TeamPTT On Premise	\$ 20,985.00
S	TNAS607	License - 100 TeamPTT On Premise	\$ 83,756.00
S	TNAS608	License - TeamPTT ISSI Connection	\$ 8,017.00
S	TNAS609	License - TeamPTT AIS Connection	\$ 8,017.00
S	TNAS610	License - Concurrent Call (for AIS/ISSI)	\$ 4,298.00
Tait	TeamPTT Gateway	s and Services	
E/C	Item Code	Description	List Price
S	TUSE600	Service - SSL Certificate Per Eqpmt 1yr	\$ 200.00
S	TUSE601	Service - Initial TeamPTT Gtwy w/Serv	\$ 1,482.00
S	TUSE602	Service - 1 Extra TeamPTT Gtwy w/Serv	\$ 1,289.00
S	TPTM604	TeamPTT Regional License Disp 1 User (Mth)	\$ 46.00
S	TUSE604	Service - TeamPTT VPN Gateway/Services	\$ 3,400.00
S	TPTM605	TeamPTT OnPrem Maint Add 5 Users (1 Yr)	\$ 474.00
S	TPTM607	TeamPTT OnPrem Maint 100 Users (1 Yr)	\$ 7,636.00

TP8100 Portable Radios - Analog

Portable RadioOptions & Accessories



Rugged • Reliable • Waterproof

Uncompromised build quality and sleek mechanical design make this reliable and waterproof portable radio ideal for situations when only the toughest will do. The TP8100 is sure to suit as a standalone portable or within a wider system solution.



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	\checkmark	\checkmark	✓	\checkmark	✓
C0	174-225	\checkmark	\checkmark	✓	\checkmark	✓
G2	350-400	\checkmark	✓	✓	✓	✓
H5	400-470	\checkmark	\checkmark	✓	\checkmark	✓
H6	450-530	\checkmark	✓	✓	✓	✓
K6	806-870 ¹	\checkmark	\checkmark	✓	✓	✓
L3	896-941 ¹	\checkmark	\checkmark	✓	✓	✓

¹ - NON-ETSI Approved

Cautionary Note

All TP8100 IS radios certified to Class 1 Division 1 under FM 3610:88 will, from the 1st January 2016, be reclassified at the point of manufacture as Class 1 Division 2 under FM 3611:04 (Non-Incendive). All FM IS Class I Division 1 products manufactured and delivered to customers prior to 1st of January 2016 will remain Class 1 Division 1.

Some accessories for IS radios delivered prior to 1st of January 2016 can continue to be purchased, with IS ratings retained. Please refer to TPXXXX IS Accessories page.

Package Configurations

Use the options below to complete the TP8100 item codes shown on pages 12.1-5 to 12.1-14. For more configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4.

For Example:

Replace characters in the item code to reflect the chosen options.

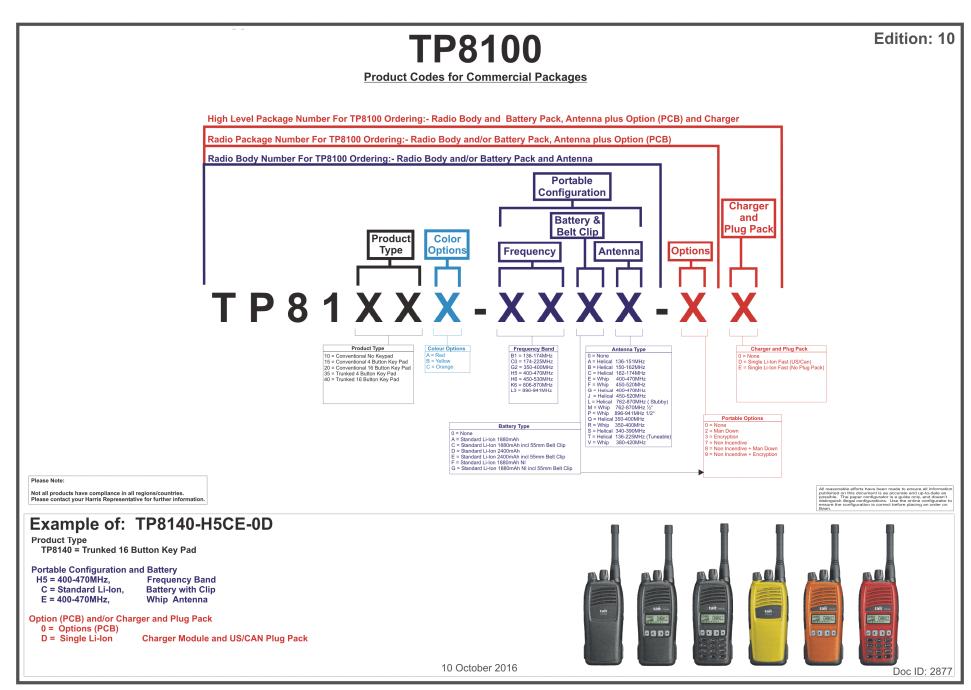
STANDARD PACKAGE	
TP8110-FFCY-XZ	Package with standard black front panel
TP8110W-FFCY-XZ	Package with colored front panel (red, yellow & orange)
NON-INCENDIVE PACKAGE	
TP8110-FFGY-XZ	Non-Incendive Package with standard black front panel
TP8110W-FFGY-XZ	Non-Incendive Package with colored front panel (red, yellow & orange)

Where:

Where:

Frequency Options (FF): B1 = 136-174MHz C0 = 174-225MHz G2 = 350-400MHz ¹ H5 = 400-470MHz H6 = 450-530MHz K6 = 806-870MHz ¹ L3 = 896-941MHz ¹ ¹ - NON-ETSI Approved To order:	Antenna Options (Y): A = 136-151MHz 17.0cm (6 3/4 in) Helical B = 150-162MHz 15.4cm (6 1/8 in) Helical C = 162-174MHz 14.7cm (5 3/4 in) Helical E = 400-470MHz 15.5cm (6 1/8 in) Whip F = 450-520MHz 14.0cm (5 1/2 in) Whip G = 400-470MHz 8.8cm (3 1/2 in) Helical J = 450-520MHz 7.6cm (3in) Helical L = 762-870MHz 1/2 in) Whip N = 896-941MHz 1/2 in) Whip P = 896-941MHz (1/2 in) Whip Q = 350-400MHz Helical R = 350-400MHz Whip
replace FF with the required frequency code Where:	S = 340-390MHz Helical T = 136-225MHz Tuneable V = 380-420MHz Whip W = 136-151MHz no Badge Helical
Package Options (X): 0 = None 2 = Man Down 3 = Encryption 7 = Non-Incendive (NI) 8 = Non-Incendive (NI) + Man Down 9 = Non-Incendive (NI) + Encryption	Y = 400-470MHz no Badge Whip To order: ► replace Y with the required frequency code Where:
 To order: replace X with the required option Where: 	Front Panel Color Options (W): A = Red B = Yellow C = Orange To order:
 Charger Plug Pack Options (Z): D = US/CAN To order: replace Z with the required option 	 replace W with the required option

- > Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.
- Please contact your customer support representative for color availability.
- Please see pages 12.1-15 to 12.1-17 for a full list of TP8100 radio features



https://premier.pspc.harris.com/infocenter/

TP8110 - 16 Channels

Conventional

Standard package includes:

- 16 Channels
- Angled rubber volume knob
- Large PTT (Push-To-Talk) button
- Lone worker
- IP67 Certified, Military standard 810 C, D, E & F
- Programmable channel selector
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- CCDI (Computer Controlled Data Interface)
- SELCALL (Selective calling)
- Voice inversion scrambler
- CTCSS/DCS
- Key lock
- Repeater talk-around
- Stun & revive (Remote)

Options:

- Encryption
 - For overview, please refer to pages 12.1-23 to 12.1-25
 - For configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4
- Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4

- Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4.
- ¹ NON-ETSI Approved



Frequency Band		TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
C0	174-225	✓	\checkmark	\checkmark	\checkmark	\checkmark
G2	350-400	✓	\checkmark	\checkmark	\checkmark	\checkmark
H5	400-470	✓	\checkmark	\checkmark	\checkmark	\checkmark
H6	450-530	✓	\checkmark	\checkmark	\checkmark	\checkmark
к6 ¹	806-870 ¹	✓	\checkmark	\checkmark	\checkmark	\checkmark
L3 ¹	896-941 ¹	✓	\checkmark	\checkmark	\checkmark	\checkmark



TP8115 - 128 Channels

Conventional

Standard package includes:

- 128 Channels
- 24 Character LCD display
- Angled rubber volume knob
- Large PTT (Push-To-Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable channel selector
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- CCDI (Computer Controlled Data Interface)
- SELCALL (Selective calling)
- CTCSS/DCS
- Key lock
- Night use
- Repeater talk-around
- Stun & revive (Remote)

Options:

- Encryption
 - For overview, please refer to pages 12.1-23 to 12.1-25
 - For configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4
 - Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4

- Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4.
- ¹ NON-ETSI Approved



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
C0	174-225	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
G2	350-400 ¹	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H5	400-470	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H6	450-530	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
K6	806-870 ¹	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
L3	896-941 ¹	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Note:	¹ - NON-ETSI Approve	d.		·		

TP8120 - 350 Channels

Conventional

Standard package includes:

- 350 Channels
- 24 Character LCD display
- Angled rubber volume knob
- Large PTT (Push-To-Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable channel selector
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- CCDI (Computer Controlled Data Interface)
- SELCALL (Selective calling)
- CTCSS/DCS
- Key lock
- Night use
- PTT Redial
- Repeater talk-around
- SDM (Short Data Message)
- Stun & revive (Remote)

Options:

- Encryption
 - For overview, please refer to pages 12.1-23 to 12.1-25
 - For configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4
- Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4

- Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4.
- ¹ NON-ETSI Approved



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	\checkmark	\checkmark	✓	\checkmark	\checkmark
C0	174-225	\checkmark	\checkmark	✓	\checkmark	\checkmark
G2	350-400 ¹	\checkmark	\checkmark	✓	\checkmark	\checkmark
H5	400-470	\checkmark	\checkmark	✓	\checkmark	\checkmark
H6	450-530	\checkmark	\checkmark	✓	\checkmark	\checkmark
K6	806-870 ¹	\checkmark	\checkmark	✓	\checkmark	\checkmark
L3	896-941 ¹	\checkmark	\checkmark	✓	\checkmark	\checkmark
Note:	¹ - NON-ETSI Approve	d.				

ANALOG • PORTABLE RADIOS

TP**8100**

TP8110 - 16 Channels Non-Incendive

Conventional

Standard package includes:

- 16 Channels
- Angled rubber volume knob
- Large PTT (Push-To-Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable channel selector
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- CCDI (Computer Controlled Data Interface)
- SELCALL (Selective calling)
- Voice inversion scrambler
- CTCSS/DCS
- Key lock
- Repeater talk-around
- Stun & revive (Remote)

Options:

- Encryption
 - For overview, please refer to pages 12.1-23 to 12.1-25
 - For configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4
 - Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4

Note:

- Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.
- For Non-Incendive overview, please refer to pages 12.1-18 to 12.1-22
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4.



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	✓	\checkmark	\checkmark	\checkmark	\checkmark
C0	174-225	✓	\checkmark	\checkmark	\checkmark	\checkmark
G2	350-400 ¹	✓	\checkmark	\checkmark	\checkmark	\checkmark
H5	400-470	✓	\checkmark	\checkmark	\checkmark	\checkmark
H6	450-530	✓	\checkmark	\checkmark	\checkmark	\checkmark
K6	806-870 ¹	✓	\checkmark	\checkmark	\checkmark	\checkmark
L3	896-941 ¹	✓	\checkmark	\checkmark	\checkmark	\checkmark

Cautionary Note

All TP8100 IS radios certified to Class 1 Division 1 under FM 3610:1988 will, from the 1st January 2016, be reclassified at the point of manufacture as Class 1 Division 2 under FM 3611:2004 (Non-Incendive). All FM IS Class I Division 1 products manufactured and delivered to customers prior to 1st of January 2016 will remain Class 1 Division 1.

Some accessories for IS radios delivered prior to 1st of January 2016 can continue to be purchased, with IS ratings retained. Please refer to TP8100 IS Accessories section.

ANALOG • PORTABLE RADIOS

TP**8100**

TP8115 - 128 Channels Non-Incendive

Conventional

Standard package includes:

- 128 Channels
- 24 Character LCD display
- Angled rubber volume knob
- Large PTT (Push-To-Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable channel selector
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- CCDI (Computer Controlled Data Interface)
- SELCALL (Selective calling)
- CTCSS/DCS
- Key lock
- Night use
- Repeater talk-around
- Stun & revive (Remote)

Options:

- Encryption
 - For overview, please refer to pages 12.1-23 to 12.1-25
 - For configuration options, please refer to the TP8100 Portable configuration table page 12.1-4
- Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table page 12.1-4

Note:

- Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.
- For Non-Incendive overview, please refer to pages 12.1-18 to 12.1-22
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4.



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
C0	174-225	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
G2	350-400 ¹	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H5	400-470	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H6	450-530	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
K6	806-870 ¹	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
L3	896-941 ¹	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
ote:	¹ - NON-ETSI Approve	d.		·		

Cautionary Note

All TP8100 IS radios certified to Class 1 Division 1 under FM 3610:1988 will, from the 1st January 2016, be reclassified at the point of manufacture as Class 1 Division 2 under FM 3611:2004 (Non-Incendive). All FM IS Class I Division 1 products manufactured and delivered to customers prior to 1st of January 2016 will remain Class 1 Division 1.

Some accessories for IS radios delivered prior to 1st of January 2016 can continue to be purchased, with IS ratings retained. Please refer to TP8100 IS Accessories section.

TP8120 - 350 Channels Non-Incendive

Conventional

Standard package includes:

- 350 Channels
- 24 Character LCD display
- Angled rubber volume knob
- Large PTT (Push-To-Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable channel selector
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- CCDI (Computer Controlled Data Interface)
- SELCALL (Selective calling)
- CTCSS/DCS
- Key lock
- Night use
- PTT Redial
- SDM (Short Data Message)
- Stun & revive (Remote)

Options:

- Encryption
 - For overview, please refer to pages 12.1-23 to 12.1-25
 - For configuration options, please refer to the TP8100 Portable configuration table page 12.1-4
 - Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table page 12.1-4

Note:

- Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.
- For Non-Incendive overview, please refer to pages 12.1-18 to 12.1-22
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4.



Fr	equency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
C0	174-225	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
G2	350-400 ¹	\checkmark	\checkmark	✓	\checkmark	\checkmark
H5	400-470	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H6	450-530	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
K6	806-870 ¹	\checkmark	\checkmark	✓	\checkmark	\checkmark
L3	896-941 ¹	\checkmark	\checkmark	✓	\checkmark	\checkmark

Cautionary Note

All TP8100 IS radios certified to Class 1 Division 1 under FM 3610:1988 will, from the 1st January 2016, be reclassified at the point of manufacture as Class 1 Division 2 under FM 3611:2004 (Non-Incendive). All FM IS Class I Division 1 products manufactured and delivered to customers prior to 1st of January 2016 will remain Class 1 Division 1.

Some accessories for IS radios delivered prior to 1st of January 2016 can continue to be purchased, with IS ratings retained. Please refer to TP8100 IS Accessories section.

TP8135 - 100 Preset Call

Trunked

Standard package includes:

- 100 Alphanumeric preset calls
- 10 Conventional channels
- 24 Character LCD display
- Angled rubber volume knob
- Large PTT (Push-To-Talk) button
- Lone worker
- IP67 Certified, Military standard 810 C, D, E & F
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- CTCSS on conventional channel
- DCS (Tx only) on conventional channel
- Key lock
- Night use
- PTT redial
- Stun & revive (Remote)

Options:

- Encryption
 - For overview, please refer to pages 12.1-23 to 12.1-25
 - For configuration options, please refer to the TP8100 Portable configuration table page 12.1-4
 - Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table page 12.1-4

- Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4.



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked		
B1	136–174	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
C0	174-225	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
G2	350-400 ¹	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
H5	400-470	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
H6	450-530	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
K6	806-870 ¹	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
L3	896-941 ¹	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
Note: ¹ - NON-ETSI Approved.								

TP8140 - 100 Preset Call

Trunked

Standard package includes:

- 100 Alphanumeric preset calls
- 10 Conventional channels
- 24 Character LCD display
- Angled rubber volume knob
- Large PTT (Push-To-Talk) button
- Lone worker
- IP67 Certified, Military standard 810 C, D, E & F
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- CTCSS on conventional channel
- DCS (Tx only) on conventional channel
- Key lock
- Night use
- PTT redial
- SDM (Short Data Message)
- Stun & revive (Remote)

Options:

- Encryption
 - For overview, please refer to pages 12.1-23 to 12.1-25
 - For configuration options, please refer to the TP8100 Portable configuration table page 12.1-4
 - Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table page 12.1-4

- Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	\checkmark	\checkmark	\checkmark	\checkmark	✓
C0	174-225	\checkmark	\checkmark	\checkmark	\checkmark	✓
G2	350-400 ¹	\checkmark	\checkmark	\checkmark	\checkmark	✓
H5	400-470	\checkmark	\checkmark	\checkmark	\checkmark	✓
H6	450-530	\checkmark	\checkmark	\checkmark	\checkmark	✓
K6	806-870 ¹	\checkmark	\checkmark	\checkmark	\checkmark	✓
L3	896-941 ¹	\checkmark	\checkmark	\checkmark	\checkmark	✓
lote: 1	- NON-ETSI Approve	d.		· · ·		

TP8135 - 100 Preset Call Non-Incendive

Trunked

Standard package includes:

- 100 Alphanumeric preset calls
- 10 Conventional channels
- 24 Character LCD display
- Angled rubber volume knob
- Large PTT (Push-To-Talk) button
- Lone worker
- ▶ IP67 Certified, Military standard 810 C, D, E & F
- Programmable emergency key
- Side mounted accessory connector
- Swipe battery contacts
- Rugged construction two-shot moulding
- 3 Programmable function keys including emergency key
- CTCSS on conventional channel
- DCS (Tx only) on conventional channel
- Key lock
- Night use
- PTT redial
- Stun & revive (Remote)

Options:

- Encryption
 - For overview, please refer to pages 12.1-23 to 12.1-25
 - For configuration options, please refer to the TP8100 Portable configuration table
 page 12.1-4
 - Man Down
 - For configuration options, please refer to the TP8100 Portable configuration table
 page 12.1-4

Note:

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- Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.
- For Non-Incendive overview, please refer to pages 12.1-18 to 12.1-22
- Front Panel Red, Yellow or Orange front panels are available in addition to the standard black front panel - please contact your customer support representative for availability

For more configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4.



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
C0	174-225	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
G2	350-400 ¹	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H5	400-470	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H6	450-530	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
K6	806-870 ¹	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
L3	896-941 ¹	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Note: ¹ - NON-ETSI Approved.						

Cautionary Note

All TP8100 IS radios certified to Class 1 Division 1 under FM 3610:1988 will, from the 1st January 2016, be reclassified at the point of manufacture as Class 1 Division 2 under FM 3611:2004 (Non-Incendive). All FM IS Class I Division 1 products manufactured and delivered to customers prior to 1st of January 2016 will remain Class 1 Division 1.

Some accessories for IS radios delivered prior to 1st of January 2016 can continue to be purchased, with IS ratings retained. Please refer to TP8100 IS Accessories section.

For all inquiries relating to the sale and deployment of Intrinsically Safe portables and their accessories, please contact your local dealer for information specific to your operational needs.

TP8100

TP8140 - 100 Preset Call Non-Incendive

Trunked

•

Standard package includes:

- 100 Alphanumeric preset calls
- 10 Conventional channels
- 24 Character LCD display ▶
- Angled rubber volume knob •
- Large PTT (Push-To-Talk) button ►
- ► Lone worker
- IP67 Certified, Military standard 810 C, D, E & F •
- Programmable emergency key
- Side mounted accessory connector •
- Swipe battery contacts •
- Rugged construction two-shot moulding •
- 3 Programmable function keys including emergency ▶ key
- CTCSS on conventional channel •
- DCS (Tx only) on conventional channel
- Key lock
- Night use
- PTT redial
- SDM (Short Data Message)
- Stun & revive (Remote)

Options:

- Encryption -
 - · For overview, please refer to pages 12.1-23 to 12.1-25
 - · For configuration options, please refer to the TP8100 Portable configuration table page 12.1-4
 - Man Down -
 - For configuration options, please refer to • the TP8100 Portable configuration table page 12.1-4

Note:

- Not all products have compliance in all regions/countries. Please contact your L3Harris Representative for further information.
- For Non-Incendive overview, please refer to pages 12.1-18 to 12.1-22
- Front Panel Red, Yellow or Orange front • panels are available in addition to the standard black front panel - please contact your customer support representative for availability
- For more configuration options, please refer to the TP8100 Portable configuration table on page 12.1-4.



	Frequency Band	TP8110 Conventional	TP8115 Conventional	TP8120 Conventional	TP8135 Trunked	TP8140 Trunked
B1	136–174	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
C0	174-225	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
G2	350-400 ¹	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H5	400-470	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
H6	450-530	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
K6	806-870 ¹	\checkmark	\checkmark	√	\checkmark	\checkmark
L3	896-941 ¹	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

Cautionary Note

All TP8100 IS radios certified to Class 1 Division 1 under FM 3610:1988 will, from the 1st January 2016, be reclassified at the point of manufacture as Class 1 Division 2 under FM 3611:2004 (Non-Incendive). All FM IS Class I Division 1 products manufactured and delivered to customers prior to 1st of January 2016 will remain Class 1 Division 1.

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For all inquiries relating to the sale and deployment of Intrinsically Safe portables and their accessories, please contact your local dealer for information specific to your operational needs.



TP8100 - Features Comparison

RADIO FEATURES	TP8110	TP8115	TP8120	TP8135	TP8140
Number of Conventional Channels	16	128	350	10	10
Number of Alphanumeric Presets	•	٠	٠	100	100
24 Character LCD Display	•	\checkmark	\checkmark	✓	✓
Colored Front Panel Option	\checkmark	\checkmark	\checkmark	✓	\checkmark
Encryption Options Board	\checkmark	\checkmark	\checkmark	✓	\checkmark
Economy Mode	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Fast Charger	\checkmark	\checkmark	\checkmark	✓	\checkmark
GPS Capability (External Speaker Mic) <i>Note: Requires customised</i> <i>firmware, please contact your L3Harris customer support</i> <i>representative</i>	\checkmark	\checkmark	\checkmark	~	\checkmark
Non-Incendive (Optional)	\checkmark	\checkmark	\checkmark	✓	✓
IP67 Certified	\checkmark	\checkmark	\checkmark	✓	\checkmark
Large PTT Button	\checkmark	\checkmark	\checkmark	✓	\checkmark
Li-Ion Battery as Standard	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Lone Worker	\checkmark	\checkmark	\checkmark	✓	✓
Long Shift Life (11-14hrs, dependent on battery)	\checkmark	\checkmark	\checkmark	✓	✓
Man Down (Optional)	\checkmark	\checkmark	\checkmark	✓	✓
MEPS Approved Plug Pack	\checkmark	\checkmark	\checkmark	✓	\checkmark
Military Standards 810 C, D, E and F	\checkmark	\checkmark	\checkmark	✓	✓
Multi View Indicator LED	\checkmark	\checkmark	\checkmark	✓	\checkmark
Multi Way Charger (Optional)	\checkmark	\checkmark	\checkmark	✓	\checkmark
Programmable Channel Selector	\checkmark	\checkmark	\checkmark	✓	✓
Programmable Emergency Key	\checkmark	\checkmark	\checkmark	✓	\checkmark
Shared Accessories with other L3Harris Portables	\checkmark	\checkmark	\checkmark	✓	\checkmark
Side Mounted Accessories Connector	\checkmark	\checkmark	\checkmark	✓	\checkmark
Stainless Steel Antenna Connector	\checkmark	\checkmark	\checkmark	✓	\checkmark
Swipe Battery Contacts	\checkmark	\checkmark	\checkmark	✓	✓
Two-shot Moulded Construction	\checkmark	\checkmark	\checkmark	✓	\checkmark
Voice Inversion Scrambler	\checkmark	\checkmark	\checkmark	✓	\checkmark
3 Programmable Function Keys - including Emergency Key	\checkmark	\checkmark	\checkmark	✓	\checkmark
Alphanumeric Labels	•	٠	\checkmark	•	\checkmark
ANI (Automatic Number Identification)	Tx only	\checkmark	\checkmark	•	
Audible Indicator Control	\checkmark	\checkmark	\checkmark	✓	✓
Auto Noise Reduction (ANR)	\checkmark	\checkmark	\checkmark	✓	✓
Automatic call back	•	٠	٠	✓	✓
Auto Quiet Timer Countdown Select	✓	✓	✓	•	•
Background search sequence	•	•	•	✓	✓
Busy Channel Lockout (Also known as Transmit Inhibit)	✓	✓	\checkmark	•	•
Call Diversion	✓	✓	✓	✓	✓



TP8100 - Features Comparison

RADIO FEATURES	TP8110	TP8115	TP8120	TP8135	TP8140
Call in absence indicator	•	٠	٠	✓	\checkmark
Call Queuing	•	✓	\checkmark	✓	\checkmark
Call time limit display	•	٠	٠	✓	\checkmark
Caller ID	•	✓	\checkmark	٠	•
CCDI (Computer Controlled Data Interface)	~	✓	\checkmark	٠	٠
Channel Presets	✓	✓	\checkmark	✓	✓
Conventional Channel Operation	✓	✓	\checkmark	✓	✓
CTCSS (Continuous Tone Controlled Squelch System)	~	✓	\checkmark	٠	٠
CTCSS on conventional channel (Trunked)	•	٠	٠	✓	✓
CTCSS on traffic channel (Trunked)	•	٠	٠	✓	✓
DCS (Tx only)	•	٠	٠	✓	✓
DCS (Digitally Coded Squelch)	✓	✓	\checkmark	٠	•
Deferred Calling	~	✓	\checkmark	٠	٠
DTMF (Dual Tone Multi Frequency)	✓	✓	\checkmark	•	✓
Dynamic power control	•	٠	٠	✓	\checkmark
Dynamic regrouping	•	٠	٠	✓	✓
Emergency Mode Auto Alert	✓	✓	\checkmark	٠	٠
Emergency Mode Auto Radio Reset	✓	✓	\checkmark	٠	٠
Emergency Mode Key-press Options	✓	✓	\checkmark	٠	٠
FFSK	~	✓	\checkmark	٠	٠
Free Format Sequences	~	✓	\checkmark	٠	٠
G-Star Signalling (Encode)	~	✓	\checkmark	٠	٠
Join busy group	•	٠	٠	✓	✓
Key Beeps / Confidence Tones / Audible Indicators	~	✓	\checkmark	✓	✓
Key Lock	✓	✓	\checkmark	✓	✓
LCD Contrast Adjust	•	✓	\checkmark	✓	✓
MDC1200 (En/Decode)	✓	✓	\checkmark	٠	٠
Manual site select	•	٠	٠	✓	✓
Monitor Function	✓	\checkmark	\checkmark	✓	✓
Multiple network capability	•	•	٠	✓	✓
Multiple SELCALL Networks	✓	\checkmark	\checkmark	•	•
Network name	•	•	٠	✓	✓
Night use	•	\checkmark	\checkmark	✓	✓
Nuisance Delete	\checkmark	✓	\checkmark	•	•
Programmable Bandwidth	\checkmark	✓	\checkmark	✓	✓
Programmable Group Membership	•	✓	\checkmark	•	•
Programmable Group Tone	\checkmark	✓	\checkmark	•	•
Programmable User Defined SELCALL Tone Set	✓	✓	\checkmark	•	•
PTT Redial	•	٠	\checkmark	✓	✓



TP8100 - Features Comparison

RADIO FEATURES	TP8110	TP8115	TP8120	TP8135	TP8140
Quiet interrogation	✓	✓	✓	•	•
Quiet mode	•	•	•	\checkmark	✓
Repeater talkaround	✓	✓	✓	٠	•
Scanning	✓	✓	✓	•	•
Scanning/User programmable scan	✓	✓	✓	•	•
SDM (Short Data Message) Transmit	•	•	✓	•	✓
SDM (Short Data Message) Receive	•	✓	✓	\checkmark	✓
SELCALL (Selective calling)	✓	✓	✓	•	•
Separate Rx alert/ring patterns	✓	✓	✓	•	•
Side-tone generation	✓	✓	✓	•	•
Short menu key	•	✓	✓	\checkmark	✓
Squelch override	✓	✓	✓	•	•
Status labels	•	✓	\checkmark	✓	✓
Status labels - Control	✓	✓	\checkmark	•	•
Stun & Revive (Remote)	✓	✓	✓	\checkmark	✓
Talker ID (MPT)	•	•	٠	\checkmark	✓
Transmit Lockout	✓	✓	✓	•	•
Transmit Low Power	✓	✓	✓	\checkmark	✓
Transmit Timer	✓	✓	\checkmark	\checkmark	✓
Trunked Channel Display	•	•	•	\checkmark	✓
Type 99 Decode	✓	✓	\checkmark	٠	•
Voting	✓	✓	\checkmark	•	•
Zones 15,20	✓	✓	\checkmark	•	•
CALL TYPES	TP8110	TP8115	TP8120	TP8135	TP8140
Advanced hunt routines	•	•	٠	\checkmark	✓
Broadcast group call	•	•	٠	\checkmark	✓
Conference group call	•	•	•	\checkmark	✓
Emergency Call	\checkmark	✓	\checkmark	\checkmark	✓
Group Calls	✓	✓	\checkmark	\checkmark	✓
Interfleet calls	•	•	•	\checkmark	✓
PABX calls (Private Automatic Branch Exchange	•	•	•	\checkmark	\checkmark
Preset Calls	✓	✓	\checkmark	\checkmark	\checkmark
Priority Call	✓	✓	\checkmark	\checkmark	✓
Programmable trunked ring patterns	•	•	•	\checkmark	✓
PSTN calls (Public Switched Telephone Network)	•	•	•	\checkmark	✓
Status calls	•	•	٠	\checkmark	✓
Top Mounted Programmable Emergency Call	✓	\checkmark	\checkmark		✓

NON-INCENDIVE (NI)

Overview

For greater safety in hazardous locations the Non-Incendive TP8100 portables are available with internationally recognized Factory Mutual[™] approvals. Both trunked and conventional portables in the TP8100 series can be supplied with NI features for use in hazardous environments. Manufactured to comply with internationally recognized Factory Mutual[™] (FM[™]) Approvals, the TP8100 is classed NI (Non-Incendive). Like the rest of the TP8100 series, the NI model is built to IP67 dust and water resistance standards, and is designed for the operation in harshest of environments. A full range of FM[™] approved accessories is also available, including rugged speaker-mics and noise cancelling headsets.

Tait Communications has the following Factory Mutual [™] approval for the TP8100 NI portable product range:

- Non-Incendive for use in:
 - Class I
 - Division 2
 - Groups A, B, C & D with a temperature rating of T4 Ta=40°C
 - Class II & III
 - Division 1 or 2h
 - Groups E, F & G with a temperature rating of T4 Ta=40°C
 - Indoor & outdoor
 - IP67 Hazardous (classified) locations

Temperature Rating Code

Identifications Code	Maximum Temperature (°C)	Identification Code	Maximum Temperature (°C)
T1	450	T3A	180
T2	300	T3B	165
T2A	280	T3C	160
T2B	260	T4	135
T2C	230	T4A	120
T2D	215	Т5	100
Т3	200	Т6	85

Note:

Compliance shall be verified by measurement based on the highest temperature which may be attained in service under the most adverse conditions (but within rated values) by any part or surface of the equipment. The most adverse conditions include overloads and fault conditions recognized in the specific standard for the Type of Protection concerned.

Non-Incendive (NI)

Background

- What is Non-Incendive?
 - Electrical equipment that is incapable of releasing sufficient electrical or thermal energy under normal operating conditions only which cause ignition of a specific hazardous mixture and air. This rating is required for equipment to be used in Division 2 environments.

Non-Incendive approvals are classified by classes, divisions, groups and a temperature rating. These can be defined as follows:

- Class:
 - this can be defined as relating to the industry type in which the equipment will operate. Classes range from Class I to Class III, where Class I is for such industries as petroleum/gas/oil etc., Class II is for such industries as heavy engineering (iron-ore, magnesium, coke, coal, charcoal, etc.) and the food industry (starch, grain processing, e.g. flour mills etc.) Class III is for industries dealing with fibers.
- Division:
 - this can be defined as relating directly to the proximity of the risk. That is, if the hazardous mixture is in direct contact with the environment (Division 1, closer proximity) or is it enclosed within a container or system, or ventilated (Division 2, further proximity).
- Group:
 - this is the type of atmosphere and ranges from Group A through to Group G. Group A covers atmospheres containing Acetylene gas and Group B covers atmospheres containing Hydrogen gas. These are both very unstable and explode at low temperatures. Group C covers vapours of Ethylene and Group D covers Propane vapour atmospheres. Group E includes atmospheres containing various types of metal dust, Group F has coal dust, and Group G contains grain dusts.
- Temperature rating:
 - Temperature rating alone is probably the most important factor for NI hand-portables. The temperature rating is a maximum temperature (°F / °C) and an associated identification code. The temperature rating means that where any hazardous mixture explodes/combusts at less than the stated maximum temperature, then the hand-portable cannot be used in this environment. If units do not meet the temperature requirement then there is no basis for supplying radios regardless of whether or not the units meet the other standards i.e. class, division and group.
 - It is important to note that Tait does not wish to advise the customer what ratings they would need for their work environment, as
 liability becomes an issue here. There are a number of publications which detail combustion thresholds of hazardous mixtures and the
 customer should research this themselves.

Non-Incendive (NI)

What Tait can offer

Tait Communications currently have both the following Factory Mutual[™] Approval for the TP8100 Series NI product range (all bands and variants):

- Approved as Non-Incendive for use in Class I, Division 2, Groups A, B, C & D with temperature rating of T4 Ta=40°C
- Approved as suitable for use in Class II & III, Division 1, Groups E, F & G; temperature class T4 Ta=40°C; indoor & outdoor, IP67 hazardous (classified) locations.

What this means:

- Class I, Division 2 This is a location in which:
 - (a) volatile flammable gasses are handled, processed or used, but in which the hazardous liquids, vapours or gases will normally be confined within closed containers or closed systems from which they can escape only in case of accidental rupture or breakdown of such containers or systems, or in case of abnormal operation of equipment;

OR

• (b) in which hazardous concentration of gases or vapours are normally prevented by positive mechanical ventilation, and which might become hazardous through failure or abnormal operation of the ventilating equipment;

OR

- that is adjacent to a Class I, Division 1 location, and to which hazardous concentrations of such gases or vapours might occasionally be communicated unless such communication is prevented by adequate positive-pressure ventilation from a source of clear air, and effective safe-guards against ventilation failure are provided.
- Groups A, B, C, D, E, F & G: These are various atmospheres for which the Tait hand-portables are approved to operate in, in conjunction with the above information and are rated as follows:
 - Group A atmospheres containing acetylene gas
 - Group B atmospheres containing hydrogen gas
 - Group C atmospheres containing ethylene vapours
 - Group D atmospheres containing propane vapours
 - Group E atmospheres containing metal dusts
 - Group F atmospheres containing carbonaceous dusts
 - Group G atmospheres containing organic dusts
- Temperature T4 Ta=40°C
 - Where any hazardous mixture explodes at less than 40°C, Tait hand-portables are not approved to operate in these environments.

Non-Incendive (NI)

Accessories

The TP8100 NI range of portables are only approved to be Non-Incendive when used in conjunction with the NI approved accessories and FM™ Approved battery packs.

- Batteries:
 - T03-24011-AAAA TP8100 Battery Li-Ion 1800mAh
 - T03-24011-ABAA TP8100 Battery -Li-Ion 1800mAh complete with Belt Clip

Note: If a customer has a requirement to charge their batteries within a hazardous environment, we cannot supply our chargers as these are NOT FM™ Approved.

- Audio Accessories & Antennas
 - Please contact your L3Harris customer services representative.
- This certificate is issued for the following equipment:
 - T03-2400n-abcd, TP8100 Portable Radio
 - NI / I / 2 / ABCD / T4 Ta=40°C, IP67
 - S / II / III / 2 / EFG, IP67
 - n = software function / user interface: 1, 2, 3, 4, 5, 6
 - a = Frequency Band: B, C, D, E, F, G, H
 - b = Customer Variants: A-Z
 - c = Internal Options: A
 - d = Color: A, B, C, D
- Special Conditions of Use:
- 1. When used with Tait Communications battery pack (P/N T03-20011-AAAA).

2. The specific accessories & antenna options that may be used with the radios above are listed within the Tait Communications service manuals part number MPC-00003-xx.



Allvl alcohol

Morpholine

Ethylenimine

Cyclopropane

Ethylene

•

•

•

Non-Incendive (NI)

Disclaimer

The following classification and rating details are only meant to be a guide for quick reference and Tait Communications makes no claims to the accuracy of the items in the appendix below:

- Group A atmospheres Atmospheres containing Acetylene gas. ▶
- Group B atmospheres Atmospheres containing Hydrogen gas. b
- Group C atmospheres Chemical (Ethylene based)
 - Acetaldehvde
 - Diethylamaine
 - Ethyl mercaptan
 - Tetrahydrofuran
 - Crotonaldehyde
- 2-nitropropane (UDMH 1, 1-dimenthyl

•

Diethyl ether

Hydrogen sulphide

Epichlorohydrin

- Hydrogen cyanide
- n-butyraldehyde
- Carbon monoxide .
- Ethyl sulphide
- Unsymetrical dimethyl hydrazine)
- Group D atmospheres Chemical (Propane based)
 - Acetic acid
 - Acetone
 - Acrylonitrile •
 - Ammonia
 - Benzene
 - Butane
 - Soprene
 - Isopropyl ether
 - Mesityl oxide •
 - Methane (natural gas) .
 - Methanol (methyl gas) .
 - Toluene •
 - Vinyl acetate
 - Vinyl chloride
 - Xylenes

- Ethylene diamine
- •
- Ethylene glycol monomethyl ether •
- •
- Heptanes
- Propane

- .
- Ethanol (ethyl alcohol) •
- Ethyl acetate •
- Ethyl acrylate (inhibited)

- - 2-methyl-2-proponal .
 - Petroleum naptha
 - Pyridine
 - Octanes
 - Pentanes
 - 1-pentanol (amyl alcohol)
 - 2-butanol (secondary butyl alcohol) .
 - n-butyl acetate .
 - Isobutyl acetate •
 - di-isobutylene .
 - 3-methyl-l-butanol Ethane .
 - Methyl ethyl ketone •
 - Methyl isobutyl ketone .
 - 2-methyl-l-proponal

For classification of areas involving ammonia atmosphere, see Safety Code for Mechanical Refrigeration (ANSI/ASHRAE 15-1978) and Safety Requirements for the Storage and Handling of Anhydrous Ammonia (ANSI/CGA G2.1-1972).

A Saturated hydrocarbon mixture boiling in the range of 20-135N C (68-275NF). Also known by the synonyms benzene, ligroin, petroleum ether or naphtha.

- ▶ Group E atmospheres - Atmospheres containing metal dust, including aluminium, magnesium and their commercial alloys, and other metals of similarly hazardous characteristics.
- Group F atmospheres - Atmospheres containing carbon black, charcoal or coke dusts which have more than 8 percent total volatile material (carbon black per ASTM D1620, charcoal, coal and coke dust per ASTM D271) or atmospheres containing these dusts sensitized by other materials so that they represent an explosion hazard.
- ► Group G atmospheres - Atmospheres containing flour, starch, grain or combustible plastics or chemical dusts.

Note: Explanation of the above classes, divisions and atmospheres can be found in Article 500 of the United States National Electrical Code.

- Ethylene dichloride
- Gasoline
- •
- Hexanes •
- 1-propanol •
- 2-propanol •
- Propylene
- Styrene

Encryption

For organizations that value the confidentiality of their information, Tait can now offer our TP8100 portable radios fitted with Midian™ encryption modules.

There are two levels of encryption depending on your customer's requirements:

- voice inversion encryption
 - protects against causal listeners and is cost-effective
- rolling code / frequency-hopping encryption
 - protects against more determined listeners

Applications

From a small company's competitive advantage through essential government information, we can now offer an encryption solution suitable for many different types of companies.

Public and private safety, Law enforcement, Government department, Security company, Service provider, Health service, Event management, Commercial business, Security company, Service provider & Media.

Specifications

Encryption modules can be fitted to TP8100 portable radios either when the product is first built, or as a simple upgrade to existing equipment provided the radio was purchased 'encryption ready'.

Tait can provide consultation and system design to ensure the complete integration of your encryption solution. For specifications on encryption module types, please see the encryption white paper, under the documentation section of the encryption resource CD.

Important

The sale of certain encryption products is subject to export controls. It is imperative that you consult with your local L3Harris Representative prior to offering any encryption product to a customer.



Encryption Type

For organizations that require confidentiality of their information, Tait offers TP8100 portable radios fitted with Midian[™] encryption modules. These can be fitted at all frequencies. Please contact your Representative who will help you with an encryption solution.

Types of encryption offered by Tait

There are two levels of Encryption depending on the requirements;

- 1. Voice Inversion Encryption which protects against casual listeners, and
- 2. Rolling Code / Frequency Hopping Encryption which protects against more determined listeners.

FEATURES	MIDIAN™ TVS-2
Encryption method	Hopping
Hopping rate	6-12/Sec
OTAP	No
Codes available	Trillions
Codes selectable	4
Coded/Clear TX	Manual select
Coded/Clear RX	Automatic
Inter-operability	-
Current drain	9Ma
CTCSS supported	Yes

FEATURES	MIDIAN™ TVS-2
Selcall	Yes
FFSK	Yes
Radio Enable/Disable	No
Change Encrypt codes	Yes
ANI	Yes
Emergency	Yes
Status	Yes
Change ANI/Group/Fleet	Yes
Force Coded/Clear	Yes

Frequently Asked Questions

What does a Tait encryption unit look like?

Tait encryption units are small circuit modules that fit inside our radios, and change the way speech is heard - garbling the transmitted audio, and reconstructing the received audio. Externally it is not evident that encryption is fitted to a radio.

How does the encrypted audio sound without a decrypter?

It still has the fluctuating volume of a speech signal, but like a totally foreign language with completely different phonetics - totally incomprehensible.

How easy is it to understand when decrypted?

There are some background noises but the main intelligibility of the speech is largely unaffected.

Do I need to replace all my radios?

Not necessarily. Your existing Tait radios may be able to be fitted with encryption.



Encryption Questionnaire

Encryption is a highly technical business. This questionnaire has been designed to help determine the system aspects of any encryption sale, and how they affect the equipment and services needed in order to ensure a satisfactory solution for your company and Tait. We ask that you complete this questionnaire before any orders are placed so that Tait can help fit you with the best possible solution. Please contact your L3Harris Representative for further information.

•	Company Na	ame:	Name:
•		ail:	
1 . V	Vho do you wis	sh to protect your voice communications from?	
		Casual listener	
		Technically equipped listener	
		Highly technical and determined eavesdroppe	r
2. ⊦	low many porta	able radios will require encryption in this applicat	tion? Total number:
3. V	Vill all radios re	equire encryption functionality?	
	🗆 Full fl	leet	
4 . A	re all conversa	ations to be encrypted or only a selection?	
5 . A	re all radios as	ssigned to individuals or available from a pool re	source?
6 . A	re radio users	to be responsible for enabling/disabling encrypt	ion or is the encryption module required to process this automatically?
7 . C	o the radios ne	eed to have a selection of encryption codes avai	lable or just one code?
	multiple encry atcher?	ption codes are required, are these to be available	ble to the radio user via the radio user interface, or controlled via a central
	s the customer ncryption.	a current user of voice encryption? If yes, what	is the type of encryption currently being used? Please specify brand and leve
	What type of ra rs? Please des		unked, Multi-site MPT Trunked) is being utilized in this application by these
11.	What other sig	nalling will be used on this system (e.g. DTMF, I	PSTN, etc.)?
12.	Does the radio	use ANI and if so, pre- or post-PTT?	
13.	Is CTCSS/DCS	S used, and if so, at what hertz/code?	
14.	Please describ	be which assignable key will support encryption.	Enable/disable and if it is a short or long press.
15.	Who will be rea	sponsible for implementing the encryption solution	on (e.g. setting audio levels, etc.)
16.	What audio ac	cessories, if any, are to be used with the termina	al equipment (e.g. speaker mics, headsets, etc.)?
17.	Who will be rea	sponsible for training the end user?	
18.	What level of e	encryption is required?	
		Midian™ TVS-2 TAIT	
		Encryption ready	

OPTIONS & ACCESSORIES TP8100

Intrinsically Safe Accessories

ITEM CODE	DESCRIPTION
Battery	
T03-20011-AAAA	TP81 Battery – Li-Ion 1880mAh IS

Non-Incendive Accessories

ITEM CODE DESCRIPTION	
Battery	
T03-24011-AAAA TP8100 Battery - NI FM Li-Ion 1880mAh	
T03-24011-ABAA TP8100 Battery -Li-Ion 1800mAh complete with Belt Clip	

Audio Accessories

Please contact your L3Harris customer support representative if you require an audio accessory that is not shown here.

ITEM CODE	DESCRIPTION
Speaker Microphones	
T03-00045-ERAA	TP81/93/94 Speaker Microphone Light-Weight 3.5mm-Jack
T03-00045-FRAA	TP81/93/94 Speaker Microphone Medium-Weight 3.5mm-Jack
T03-00119-ABAA	TP81 Speaker Microphone Profile 2.5mm-Jack
T03-00045-GFAA	TP81 Speaker Microphone Evolution NI E-Button 2.5mm-Jack
T03-00045-HFAA	TP81 Speaker Microphone Storm IP68 NI E-Button 2.5mm-Jack
T03-00045-JFAC	TP81/93/94 Speaker Microphone Evolution Emergency-Button 2.5mm L3Harris
T03-00045-KFAC	TP81/93/94 Speaker Microphone Storm IP68 Emergency-Button 2.5mm L3Harris
T03-00045-DMAC	TP81/93/94 Speaker Microphone Genesis IP68 Emergency-Button L3Harris
T03-00045-LSAA	TP81/93/94 Speaker Microphone C-C500 Emergency-Button Quick-Release-Jack
TPB-AA-101	TP81 Speaker Microphone Light-Weight 3.5mm-Jack
T03-10119-AAAA	TP81 Speaker Microphone Evolution GPS Emergency Requires custom radio firmware. Contact your L3Harris Button 2.5mm-Jack customer support representative
Ear Pieces	
T03-00053-0451	Earphone In-Ear 2.5mm
T952-055	Earhanger 2.5mm
T03-00047-CBAA	Covert Kit Earhanger Lapel-Mic-With-PTT
T03-00047-BAAA	Covert Kit Eartube-In-Ear Lapel-Mic-With-PTT
T03-00120-AAAD	Eartube In-Ear 2.5mm
T03-00120-AAAE	Eartube In-Ear 3.5mm
T03-00120-BAAD	Earhook 2.5mm
T03-00120-BAAE	Earhook 3.5mm
T03-00120-FAAD	Eartube Earhook 2.5mm
T03-00120-FAAE	Eartube Earhook 3.5mm
T03-00120-GAAD	Earhook Transparent Hi-Volume 2.5mm
T03-00120-GAAE	Earhook Transparent Hi-Volume 3.5mm
T03-00120-HAAD	Earphone Transparent D-Ring Hi-Volume 2.5mm
T03-00120-HAAE	Earphone Transparent D-Ring Hi-Volume 3.5mm
Adaptors	
T03-00119-XAAA	TP81 Accessory Adaptor Hirose-6-Pin
T03-00119-XBAA	TP81 Accessory Adaptor 7.5mm

OPTIONS & ACCESSORIES TP8100

Audio Accessories - Continued

ITEM CODE	DESCRIPTION			
Headsets				
T03-00046-EFAA	TP81/93/94 Headset Light-Weight Behind-Head Boom-Mic Fir	TP81/93/94 Headset Light-Weight Behind-Head Boom-Mic Finger-PTT		
T03-00046-FAAB	TP81/93/94 Headset Heavy-Duty Overhead L3Harris			
T03-00046-FEAB	TP81/93/94 Headset Heavy-Duty Behind-Head L3Harris			
T03-00046-GEAA	TP81/93/94 Headset Hurricane II Behind-Head			
TPA-AA-211	TP81/91 Headset Breeze Behind-Head Hirose-6-Pin	Require T03-00119-XAAA		
T03-00120-EEBA	TP81/91 Headset Heavy-Duty Overhead Hirose-6-Pin	Require 103-00119-XAAA		
Surveillance Kits				
TPB-AA-203	TP81 Covert Kit Earhook Lapel-Microphone-with-PTT			
T03-00047-BAAA	TP81/93/94 Covert Kit Eartube-In-Ear Lapel-Mic-With-PTT			
T03-00047-AAAA	TP81/93/94 2 Wire Surveillance Kit			
TPA-AA-213	TP81/91 3 Wire Surveillance Kit Hirose-6-Pin Beige			
TPA-AA-221	TP81/91 2 Wire Surveillance Kit Hirose-6-Pin Black	Require T03-00119-XAAA		
Throat Microphones				
T03-00120-AFEG	TP81 Throat Microphone 7.5mm	Requires T03-00119-XBAA		
Skull Microphone				
T03-00120-KGAA	TP81/91 Skull Microphone Hirose-6-Pin	Requires T03-00119-XAAA		
Connector Kit				
TPB-AA-005	TP81 Accessory Connector Kit			
Replacement Parts				
TPA-AA-214	Earpiece Quick Disconnect Acoustic Tube - Set of 5			
TPA-AA-215	Flexible Open Ear Insert - Left Ear Small			
TPA-AA-216	Flexible Open Ear Insert - Left Ear Medium			
TPA-AA-217	Flexible Open Ear Insert - Left Ear Large	Replacement parts for T03-00047-AAAA TPA-AA-213 & TPA-AA-221		
TPA-AA-218	Flexible Open Ear Insert - Right Ear Small			
TPA-AA-219	Flexible Open Ear Insert - Right Ear Medium			
TPA-AA-220	Flexible Open Ear Insert - Right Ear Large			

TP8100

OPTIONS & ACCESSORIES

Audio Accessories - Continued



TPB-AA-101 Speaker Microphone Light-Weight 3.5mm-Jack

T03-00119-ABAA Speaker Microphone Profile 2.5mm-Jack

T03-00045-JFAC Speaker Microphone Evolution Emergency-Button 2.5mm-L3Harris

T03-00045-KFAC Speaker Microphone Storm IP68 Emergency-Button 2.5mm-L3Harris

T03-00045-DMAC Speaker Microphone Genesis IP68 Emergency-Button L3Harris 3mm Ear Pieces **T03-00120-AAAE** Eartube in-ear 3.5mm

> T03-00120-FAAE Eartube Earhook 3.5mm



T03-00120-BAAE Earhook 3.5mm

T952-055 Earhanger 2.5mm

T03-00053-0451 Earphone in-ear 2.5mm-Jack

T03-00120-AAAD Eartube in-ear 2.5mm

T03-00120-FAAD Eartube Earhook 2.5mm



T03-00120-GAAE Earhook Transparent High Volume 2.5mm





T03-00120-BAAD Earhook 2.5mm



T03-00120-GAAD Earhook Transparent High Volume 2.5mm





TP8100

OPTIONS & ACCESSORIES

Audio Accessories - Continued



T03-00046-FAAB Headset Heavy-Duty Overhead L3Harris

T03-00046-FEAB Headset Heavy-Duty Behind-Head L3Harris



T03-00046-GEAA Headset Heavy-Duty Behind-Head



TPB-AA-203 Covert Kit Earhook Lapel-Microphonewith-PTT

TPB-AA-204 Covert Kit Eartube-In-Ear Lapel-Microphonewith-PTT



T03-00047-AAAA TP81/93/94 2 Wire Surveillance Kit

Issued: 08/31/20

OPTIONS & ACCESSORIES

Audio Accessories – Continued



T03-00119-XAAA Accessory Adaptor Hirose-6-pin





TPA-AA-211 Headset Breeze Behind-Head Hirose-6-Pin

TP8100

T03-00120-EEBA Headset Heavy-Duty Overhead Hirose-6-Pin

TPA-AA-213 3 Wire Surveillance Kit Hirose-6-Pin Beige



TPA-AA-221 2 Wire Surveillance Kit Hirose-6-Pin Black

Many third party audio accessories with a Hirose-6-Pin male connector.

Many third party audio accessories with a 7.5mm male connector.



T03-00119-XBAA Accessory Adaptor 7.5mm

OPTIONS & ACCESSORIES

Batteries & Chargers

ITEM CODE	DESCRIPTION		
Batteries			
T03-00011-AAAA	TP81/93/94 Battery - Standard Li-Ion 1880mAh		
T03-00011-CAAA	TP81/93/94 Battery - Performance Li-Ion 2400mAh		
Belt Clips			
TPA-CA-201	TP8/9 Belt Clip 55mm		
TPA-CA-208	TP8/9 Belt Clip Adaptor for 55mm Belt Clip Requires TPA-CA-201		
Chargers			
T03-00012-AAFA	TP81/93/94 Charger Single Fast Li-Ion no Plug Pack – L3Harris		
T03-00012-AEFA	TP81/93/94 Charger Single Fast Li-Ion US/CAN Plug Pack – L3Harris		
T03-00013-AADA	TP81/93/94 Charger Multi Li-Ion No Mains Cable		
T03-00013-AEDA	TP81/93/94 Charger Multi Li-Ion Wall Kit US/CAN Mains Cable – L3Harris		
T03-00014-AAAA	TP81/93/94 Vehicle Charger Battery Only		





T03-00011-AAAA Standard Li-Ion 1880mAh Battery **T03-00012-AAFA** Charger Single Fast Li-Ion no Plug Pack L3Harris T03-00014-AAAA TP81/93/94 Vehicle Charger Battery Only

TP8100

OPTIONS & ACCESSORIES

Antennas

ITEM CODE	DESCRIPTION
TPA-AN-034	TP8/9 Antenna 136-174MHz Helical
TPA-AN-001	TP8/9 Antenna 136-225MHz Helical Tuneable
TPA-AN-002	TP8/9 Antenna 136-151MHz Helical
TPA-AN-003	TP8/9 Antenna 150-162MHz Helical
TPA-AN-004	TP8/9 Antenna 162-174MHz Helical
TPA-AN-019	TP81 Antenna 340-390MHz Helical
TPA-AN-017	TP81 Antenna 350-400MHz Helical
TPA-AN-018	TP81 Antenna 350-400MHz ¼ Wave Whip
TPA-AN-013	TP8/9 Antenna 400-470MHz Helical
TPA-AN-011	TP8/9 Antenna 400-470MHz 1/4 Wave Whip
TPA-AN-015	TP8/9 Antenna 450-520MHz Helical
TPA-AN-012	TP8/9 Antenna 450-520MHz 1/4 Wave Whip
TPA-AN-028	TP8/9 Antenna 762-870MHz Helical
TPA-AN-022	TP8/9 Antenna 762-870MHz 1/2 Wave Whip
TPA-AN-024	TP81 Antenna 896-941MHz 1/4 Wave Whip
TPA-AN-025	Antenna, 896-941M, ½ Wave Whip, TP8/TP9

TPA-AN-003

Antenna 150-162MHz Helical

TPA-AN-022 Antenna 762-870MHz ½ Wave Whip **TPA-AN-004** Antenna 162-174MHz Helical



TP8100

OPTIONS & ACCESSORIES

Carry Cases

ITEM CODE	DESCRIPTION		
Heavy Duty Leather	· · · · · · · · · · · · · · · · · · ·		
T03-00133-ABBA	TP81 Carry Case Heavy Duty Leather 4Key D-Clip E	Belt Loop	
T03-00133-ABCA	TP81 Carry Case Heavy Duty Leather 16Key D-Clip	Belt Loop	
Soft Leather			
T03-00133-BABA	TP81 Carry Case Soft Leather 4Key Use Battery Bel	t Clip	
T03-00133-BACA	TP81 Carry Case Soft Leather 16Key Use Battery Be	elt Clip	
Nylon			
T03-00133-CBBA	TP81 Carry Case Nylon 4Key D-Stud Belt Loop		
T03-00133-CBCA	TP81 Carry Case Nylon 16Key D-Stud Belt Loop		
T03-00133-CCBA	TP81 Carry Case Nylon 4Key Belt Loop	TP81 Carry Case Nylon 4Key Belt Loop	
T03-00133-CCCA	TP81 Carry Case Nylon 16Key Belt Loop		
Accessories			
T03-00038-0034	TP8/9 Shoulder Strap for Carry Case Heavy Duty Leather	For use with T03-00133-ABBA & T03-00133-ABCA	
TPA-CA-201	TP8/9 Belt Clip 55mm	·	
TPA-CA-208	TP8/9 Belt Clip Adaptor for 55mm Belt Clip	Requires TPA-CA-201	
TPA-CA-206	TP81/91 Belt Loop for D-Clip 55mm	·	
TPA-CA-207	TP81/91 Belt Loop for D-Clip 75mm	TP81/91 Belt Loop for D-Clip 75mm	
T03-00038-0022	TP8/9 Belt Loop for D-Stud 55mm	TP8/9 Belt Loop for D-Stud 55mm	
T03-00038-0023	TP8/9 Spring Clip for D-Stud 40mm	TP8/9 Spring Clip for D-Stud 40mm	



T03-00133-ABBA - Carry Case Heavy Duty Leather 4Key D-Clip Belt Loop



T03-00133-BACA - Carry Case Soft Leather 16Key Use Battery Belt Clip



T03-00133-CBBA - Carry Case Nylon 4Key D-Stud Belt Loop



T03-00038-0034 - Shoulder Strap For Carry Case Heavy Duty Leather



TPA-CA-201

Belt Clip

55mm

TPA-CA-208 Belt Clip Adaptor for 55mm Belt Clip



TPA-CA-206 Belt Loop for D-Clip 55mm



TPA-CA-207 Belt Loop for D-Clip 75mm



T03-00038-0022 Belt Loop for D-Stud 55mm



T03-00038-0023 Spring Clip for D-Stud 40mm

OPTIONS & ACCESSORIES

Programming & Service Accessories

ITEM CODE	DESCRIPTION
T03-00011-FAAA	TP81/93/94 DC Service Adaptor
T03-00040-0001	TP81/TP93/TP94 Service Kit – (Includes T03-00011-FAAA, T03-00118-0101, T03-00118-0202, T03-0118-0601, T03-00118- 5301. TOPA-SV-006, TOPA-SV-024)
T03-00118-0101	TP81/93/94 Programming Adaptor Note: Included in the T03-00118-5101 programming kit
T03-00118-5101	TP81 Programming Kit
T03-00118-0601	USB to RJ11 Programming Cable
T03-00118-0201	TP81/93/94 Calibration Adaptor
T03-00118-0202	TP81/93/94 Calibration Low Pass Filter
T03-00118-5301	TP81 Assembly Tool Kit
T950-001	USB 1.1 to Serial DB9 Adaptor
TPA-SV-006	TP8/9/TM8/9/TB7 Radio Programming Lead - Serial PC to RJ12 Note: Included in the T03-00118-5101 programming kit
TOPA-SV-024	Terminals Calibration Box
TOPA-SV-006	TP RF Service Lead
T03-00118-5201	TP8100 Spares Kit TP8110 No Key Re Skin Kit
T03-00118-5202	TP8100 Spares Kit TP8115/35 4Key Reskin Kit
T03-00118-5203	TP8100 Spares Kit TP8120/40 16key Reskin Kit



All prices are subject to the then current L3Harris Corporation Communications System Domestic Standard Conditions of Sale and are subject to change without notice.

Master Price List (USD)

Company Proprietary and Confidential

Analog Portable Radio - TP8100

E/C	Item Code	Description	List Price
s	TP8110-B1CA	136-174M 1880mAh Hel 136-151M	\$ 583.00
S	TP8110-B1CB	136-174M 1880mAh Hel 150-162M	\$ 583.00
s	TP8110-B1CC	136-174M 1880mAh Hel 162-174M	\$ 583.00
S	TP8110-C0CT	174-225M 1880mAh Hel 136-225M	\$ 583.00
5	TP8110-G2CR	350-400M 1880mAh Whp 350-400M	\$ 583.00
5	TP8110-H5CE	400-470M 1880mAh Whp 400-470M	\$ 583.00
3	TP8110-H6CF	450-530M 1880mAh Whp 450-520M	\$ 583.00
3	TP8110-K6CM	806-870M 1880mAh Whp 762-870M	\$ 696.00
5	TP8110-B1CA-0D	136-174M 1880mAh Hel 136-151M USChgr	\$ 666.00
;	TP8110-B1CB-0D	136-174M 1880mAh Hel 150-162M USChgr	\$ 666.00
5	TP8110-B1CC-0D	136-174M 1880mAh Hel 162-174M USChgr	\$ 666.00
5	TP8110-C0CT-0D	174-225M 1880mAh Hel 136-225M USChgr	\$ 666.0
;	TP8110-G2CR-0D	350-400M 1880mAh Whp 350-400M USChgr	\$ 666.0
;	TP8110-H5CE-0D	400-470M 1880mAh Whp 400-470M USChgr	\$ 666.0
;	TP8110-H6CF-0D	450-530M 1880mAh Whp 450-520M USChgr	\$ 666.0
;	TP8110-K6CM-0D	806-870M 1880mAh Whp 762-870M USChgr	\$ 779.0
TP8	115 - 128 Channel C	Conventional	
E/C	Item Code	Description	List Price
;	TP8115-B1CA	136-174M 1880mAh Hel 136-151M	\$ 634.0
;	TP8115-B1CB	136-174M 1880mAh Hel 150-162M	\$ 634.0
;	TP8115-B1CC	136-174M 1880mAh Hel 162-174M	\$ 634.0
;	TP8115-C0CT	174-225M 1880mAh Hel 136-225M	\$ 634.0
;	TP8115-G2CR	350-400M 1880mAh Whp 350-400M	\$ 634.0
;	TP8115-H5CE	400-470M 1880mAh Whp 400-470M	\$ 634.0
;	TP8115-H6CF	450-530M 1880mAh Whp 450-520M	\$ 634.0
;	TP8115-K6CM	806-870M 1880mAh Whp 762-870M	\$ 747.0
;	TP8115-B1CA-0D	136-174M 1880mAh Hel 136-151M USChgr	\$ 717.0
;	TP8115-B1CB-0D	136-174M 1880mAh Hel 150-162M USChgr	\$ 717.0
;	TP8115-B1CC-0D	136-174M 1880mAh Hel 162-174M USChgr	\$ 717.0
;	TP8115-C0CT-0D	174-225M 1880mAh Hel 136-225M USChgr	\$ 717.0
;	TP8115-G2CR-0D	350-400M 1880mAh Whp 350-400M USChgr	\$ 717.0
;	TP8115-H5CE-0D	400-470M 1880mAh Whp 400-470M USChgr	\$ 717.0
;	TP8115-H6CF-0D	450-530M 1880mAh Whp 450-520M USChgr	\$ 717.0
		000 070M 4000m Ab M/ba 700 070M U00b an	¢ 930.0
5	TP8115-K6CM-0D	806-870M 1880mAh Whp 762-870M USChgr	\$ 830.00

TP8120 - 350 Channel Conventional

E/C	Item Code	Description	List Price
5	TP8120-B1CA	136-174M 1880mAh Hel 136-151M	\$ 713.00
5	TP8120-B1CB	136-174M 1880mAh Hel 150-162M	\$ 713.00
5	TP8120-B1CC	136-174M 1880mAh Hel 162-174M	\$ 713.00
5	TP8120-C0CT	174-225M 1880mAh Hel 136-225M	\$ 713.00
	TP8120-G2CR	350-400M 1880mAh Whp 350-400M	\$ 713.00
	TP8120-H5CE	400-470M 1880mAh Whp 400-470M	\$ 713.00
	TP8120-H6CF	450-530M 1880mAh Whp 450-520M	\$ 713.00
	TP8120-K6CM	806-870M 1880mAh Whp 762-870M	\$ 826.00
	TP8120-B1CA-0D	136-174M 1880mAh Hel 136-151M USChgr	\$ 796.00
	TP8120-B1CB-0D	136-174M 1880mAh Hel 150-162M USChgr	\$ 796.00
	TP8120-B1CC-0D	136-174M 1880mAh Hel 162-174M USChgr	\$ 796.00
	TP8120-C0CT-0D	174-225M 1880mAh Hel 136-225M USChgr	\$ 796.00
	TP8120-G2CR-0D	350-400M 1880mAh Whp 350-400M USChgr	\$ 796.00
	TP8120-H5CE-0D	400-470M 1880mAh Whp 400-470M USChgr	\$ 796.00
	TP8120-H6CF-0D	450-530M 1880mAh Whp 450-520M USChgr	\$ 796.00
	TP8120-K6CM-0D	806-870M 1880mAh Whp 762-870M USChgr	\$ 909.00
	TP8120-L3CP-0D	896-941M 1880mAh Whp 896-941M USChgr	\$ 909.00
'P8	3135 - 100 Preset Cal	I Trunked	
	Item Code	Description	List Price
	TP8135-B1CA	136-174M 1880mAh Hel 136-151M	\$ 805.00
	TP8135-B1CB	136-174M 1880mAh Hel 150-162M	\$ 805.00
	TP8135-B1CC	136-174M 1880mAh Hel 162-174M	\$ 805.00
	TP8135-C0CT	174-225M 1880mAh Hel 136-225M	\$ 805.00
	TP8135-G2CR	350-400M 1880mAh Whp 350-400M	\$ 805.00
	TP8135-H5CE	400-470M 1880mAh Whp 400-470M	\$ 805.00
	TP8135-H6CF	450-530M 1880mAh Whp 450-520M	\$ 805.00
	TP8135-K6CM	806-870M 1880mAh Whp 762-870M	\$ 918.00
	TP8135-B1CA-0D	136-174M 1880mAh Hel 136-151M USChgr	\$ 888.00
	TP8135-B1CB-0D	136-174M 1880mAh Hel 150-162M USChgr	\$ 888.00
	TP8135-B1CC-0D	136-174M 1880mAh Hel 162-174M USChgr	\$ 888.00
	TP8135-C0CT-0D	174-225M 1880mAh Hel 136-225M USChgr	\$ 888.00
	TP8135-G2CR-0D	350-400M 1880mAh Whp 350-400M USChgr	\$ 888.00
;	TP8135-H5CE-0D	400-470M 1880mAh Whp 400-470M USChgr	\$ 888.00
	TP8135-H6CF-0D	450-530M 1880mAh Whp 450-520M USChgr	\$ 888.00
	TP8135-K6CM-0D	806-870M 1880mAh Whp 762-870M USChgr	\$ 1,001.00
	TP8135-L3CP-0D	896-941M 1880mAh Whp 896-941M USChgr	\$ 1,001.00
	3140 - 100 Preset Cal		• 1,001100
/C	Item Code	Description	List Price
;	TP8140-B1CA	136-174M 1880mAh Hel 136-151M	\$ 883.00
	TP8140-B1CB	136-174M 1880mAh Hel 150-162M	\$ 883.00
	TP8140-B1CC	136-174M 1880mAh Hel 162-174M	\$ 883.00
	TP8140-C0CT	174-225M 1880mAh Hel 136-225M	\$ 883.00
	TP8140-G2CR	350-400M 1880mAh Whp 350-400M	\$ 883.00
	TP8140-H5CE	400-470M 1880mAh Whp 400-470M	\$ 883.00
	TP8140-H6CF	450-530M 1880mAh Whp 450-520M	\$ 883.00
	TP8140-K6CM	806-870M 1880mAh Whp 762-870M	\$ 996.00
	TP8140-R0CM	136-174M 1880mAh Hel 136-151M USChgr	\$ 966.00
	TP8140-B1CB-0D	136-174M 1880mAh Hel 150-162M USChgr	\$ 966.00
	TP8140-B1CC-0D	136-174M 1880mAh Hel 162-174M USChgr	\$ 966.00
	TP8140-C0CT-0D	174-225M 1880mAh Hel 136-225M USChgr	\$ 966.00
	TP8140-G2CR-0D	350-400M 1880mAh Whp 350-400M USChgr	\$ 966.00
	TP8140-H5CE-0D	400-470M 1880mAh Whp 400-470M USChgr	\$ 966.00
	TP8140-H6CF-0D	450-530M 1880mAh Whp 450-520M USChgr	\$ 966.0
	TP8140-R6CM-0D	806-870M 1880mAh Whp 762-870M USChgr	\$ 1,079.00

TP8110 - 16 Channel Non Incendive	e (NI) Conventional
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TP8	8110 - 16 Channel No	on Incendive (NI) Conventional	
E/C	Item Code	Description	List Price
S	TP8110-B1GA-70	NI 136-174M 1880mAh Hel 136-151M	\$ 695.00
S	TP8110-B1GB-70	NI 136-174M 1880mAh Hel 150-162M	\$ 695.00
S	TP8110-B1GC-70	NI 136-174M 1880mAh Hel 162-174M	\$ 695.00
S	TP8110-C0GT-70	NI 174-225M 1880mAh Hel 136-225M	\$ 695.00
S	TP8110-G2GR-70	NI 350-700M 1880mAh Whp 350-700M	\$ 695.00
S	TP8110-H5GE-70	NI 400-770M 1880mAh Whp 400-770M	\$ 695.00
s	TP8110-H6GF-70	NI 450-530M 1880mAh Whp 450-520M	\$ 695.00
S	TP8110-K6GM-70	NI 806-870M 1880mAh Whp 762-870M	\$ 808.00
S	TP8110-L3GP-70	NI 896-941M 1880mAh Whp 896-941M	\$ 808.00
S	TP8110-B1GA-7D	NI 136-174M 1880mAh Hel 136-151M USChgr	\$ 778.00
S	TP8110-B1GB-7D	NI 136-174M 1880mAh Hel 150-162M USChgr	\$ 778.00
S	TP8110-B1GC-7D	NI 136-174M 1880mAh Hel 162-174M USChgr	\$ 778.00
S	TP8110-C0GT-7D	NI 174-225M 1880mAh Hel 136-225M USChgr	\$ 778.00
S	TP8110-G2GR-7D	NI 350-700M 1880mAh Whp 350-700M USChgr	\$ 778.00
S	TP8110-H5GE-7D	NI 400-770M 1880mAh Whp 400-770M USChgr	\$ 778.00
S	TP8110-H6GF-7D	NI 450-530M 1880mAh Whp 450-520M USChgr	\$ 778.00
S	TP8110-K6GM-7D	NI 806-870M 1880mAh Whp 762-870M USChgr	\$ 891.00
S	TP8110-L3GP-7D	NI 896-941M 1880mAh Whp 896-941M USChgr	\$ 891.00
		lon Incendive (NI) Conventional	, ,
	Item Code	Description	List Price
S	TP8115-B1GA-70	NI 136-174M 1880mAh Hel 136-151M	\$ 745.00
s	TP8115-B1GB-70	NI 136-174M 1880mAh Hel 150-162M	\$ 745.00
S	TP8115-B1GC-70	NI 136-174M 1880mAh Hel 162-174M	\$ 745.00
S	TP8115-C0GT-70	NI 174-225M 1880mAh Hel 136-225M	\$ 745.00
s	TP8115-G2GR-70	NI 350-700M 1880mAh Whp 350-700M	\$ 745.00
S	TP8115-H5GE-70	NI 400-770M 1880mAh Whp 400-770M	\$ 745.00
S	TP8115-H6GF-70	NI 450-530M 1880mAh Whp 450-520M	\$ 745.00
s	TP8115-K6GM-70	NI 806-870M 1880mAh Whp 762-870M	\$ 858.00
s	TP8115-L3GP-70	NI 896-941M 1880mAh Whp 896-941M	\$ 858.00
S	TP8115-B1GA-7D	NI 136-174M 1880mAh Hel 136-151M USChgr	\$ 828.00
s	TP8115-B1GB-7D	NI 136-174M 1880mAh Hel 150-162M USChgr	\$ 828.00
s	TP8115-B1GC-7D	NI 136-174M 1880mAh Hel 162-174M USChgr	\$ 828.00
S	TP8115-C0GT-7D	NI 174-225M 1880mAh Hel 136-225M USChgr	\$ 828.00
s	TP8115-G2GR-7D	NI 350-700M 1880mAh Whp 350-700M USChgr	\$ 828.00
S	TP8115-H5GE-7D	NI 400-770M 1880mAh Whp 400-770M USChgr	\$ 828.00
S	TP8115-H6GF-7D	NI 450-530M 1880mAh Whp 450-520M USChgr	\$ 828.00
s	TP8115-K6GM-7D	NI 806-870M 1880mAh Whp 762-870M USChgr	\$ 941.00
s	TP8115-L3GP-7D	NI 896-941M 1880mAh Whp 896-941M USChgr	\$ 941.00
		Ion Incendive (NI) Conventional	\$ 341.00
	Item Code	Description	List Price
S	TP8120-B1GA-70	NI 136-174M 1880mAh Hel 136-151M	\$ 824.00
s	TP8120-B1GB-70	NI 136-174M 1880mAh Hel 150-162M	\$ 824.00
S	TP8120-B1GC-70	NI 136-174M 1880mAh Hel 162-174M	\$ 824.00
s	TP8120-C0GT-70	NI 174-225M 1880mAh Hel 136-225M	\$ 824.00
S	TP8120-G2GR-70	NI 350-700M 1880mAh Whp 350-700M	\$ 824.00
s	TP8120-H5GE-70	NI 400-770M 1880mAh Whp 400-770M	\$ 824.00
s	TP8120-H6GF-70	NI 450-530M 1880mAh Whp 450-520M	\$ 824.00
s	TP8120-K6GM-70	NI 806-870M 1880mAh Whp 762-870M	\$ 937.00
s	TP8120-L3GP-70	NI 896-941M 1880mAh Whp 896-941M	\$ 937.00
s	TP8120-B1GA-7D	NI 136-174M 1880mAh Hel 136-151M USChgr	\$ 907.00
S	TP8120-B1GB-7D	NI 136-174M 1880mAh Hel 150-162M USChgr	\$ 907.00
S	TP8120-B1GC-7D	NI 136-174M 1880mAh Hel 162-174M USChgr	\$ 907.00
S	TP8120-C0GT-7D	NI 174-225M 1880mAh Hel 136-225M USChgr	\$ 907.00
S	TP8120-G2GR-7D	NI 350-700M 1880mAh Whp 350-700M USChgr	\$ 907.00
s	TP8120-H5GE-7D	NI 400-770M 1880mAh Whp 400-770M USChgr	\$ 907.00
s	TP8120-H6GF-7D	NI 450-530M 1880mAh Whp 450-520M USChgr	\$ 907.00
s	TP8120-K6GM-7D	NI 806-870M 1880mAh Whp 762-870M USChgr	\$ 1,020.00
s	TP8120-L3GP-7D	NI 896-941M 1880mAh Whp 896-941M USChgr	\$ 1,020.00
9	11 0120-L30F-7D	ni ovo-ottini toooniAn whp oso-setini osofiyi	φ 1,020.00

TP8140 - 100 Preset Call Non Incendive (NI) Trunked

E/C Itiom Code Description List Price S TP8140-B1GA-70 N1 136-174M 1880mAh Hei 136-151M \$ 995.00 S TP8140-B1GA-70 N1 136-174M 1880mAh Hei 152-174M \$ 995.00 S TP8140-C0GT-70 N1 136-174M 1880mAh Hei 158-225M \$ 995.00 S TP8140-C0GT-70 N1 136-174M 1880mAh Hei 136-225M \$ 995.00 S TP8140-B1GE-70 N1 400-770M 1880mAh Wp 400-770M \$ 995.00 S TP8140-B1GE-70 N1 400-770M 1880mAh Wp 400-770M \$ 1,108.00 S TP8140-B1GE-70 N1 806-870M 1880mAh Wp 762-870M \$ 1,108.00 S TP8140-B1GE-70 N1 806-870M 1880mAh Hei 158-154M USChgr \$ 1,078.00 S TP8140-B1GE-70 N1 136-174M 1880mAh Hei 152-174M USChgr \$ 1,078.00 S TP8140-B1GE-70 N1 38-700M 1880mAh Wp 400-770M USChgr \$ 1,078.00 S TP8140-B1GE-70 N1 48-23MU 1880mAh Wp 400-770M USChgr \$ 1,078.00 S TP8140-B1GE-70 N1 480-23MU 180-70M USChgr \$ 1,078.00 S TP8140-B1GE-70 N1 480-33MU 1800mAh Wp 782-370M USChgr \$ 1,078.00	TP8	8140 - 100 Preset Call	Non Incendive (NI) Trunked	
S TP8140-B1G2-70 NI 136-174M 1880mAh Hel 156-124M \$ 995.00 S TP8140-C0G1-70 NI 136-174M 1880mAh Hel 156-274M \$ 995.00 S TP8140-C0G1-70 NI 136-200M \$ 995.00 S TP8140-C0G1-70 NI 336-200M 1880mAh Whp 356-700M \$ 995.00 S TP8140-H5GE-70 NI 400-770M 1880mAh Whp 450-520M \$ 995.00 S TP8140-H5GE-70 NI 805-870M 1880mAh Whp 450-520M \$ 1.108.00 S TP8140-H5GE-70 NI 805-870M 1880mAh Whp 752-370M \$ 1.108.00 S TP8140-B1GE-7D NI 135-174M 1880mAh Hel 156-154M USChgr \$ 1.078.00 S TP8140-B1GE-7D NI 135-174M 1880mAh Hel 156-124M USChgr \$ 1.078.00 S TP8140-B1GE-7D NI 135-724M 1880mAh Hvp 405-700M USChgr \$ 1.078.00 S TP8140-B1GE-7D NI 450-530M 1880mAh Whp 400-7070M USChgr \$ 1.078.00 S TP8140-B1GE-7D NI 450-530M 1880mAh Whp 762-370M USChgr \$ 1.078.00 S TP8140-L5GE-7D NI 450-530M 1880mAh Whp 762-370M USChgr \$ 1.978.00 S TP8140-L5GE-7D NI 450-530M 1880mAh Whp 762-370M USC	E/C	Item Code	Description	List Price
S TP8140-B16C-70 NI 136-174M 1880mAh Hel 136-225M \$95.00 S TP8140-G26R-70 NI 336-700M 1880mAh Whp 350-700M \$95.00 S TP8140-H56E-70 NI 450-520M 1880mAh Whp 400-770M \$95.00 S TP8140-H56E-70 NI 450-530M 1880mAh Whp 752-370M \$1.108.00 S TP8140-H56E-70 NI 856-541M 1880mAh Whp 752-370M \$1.108.00 S TP8140-L36P-70 NI 856-541M 1880mAh Whp 752-370M \$1.078.00 S TP8140-B162-70 NI 136-174M 1880mAh Hel 153-128M USChgr \$1.078.00 S TP8140-B162-70 NI 136-174M 1880mAh Hel 152-174M USChgr \$1.078.00 S TP8140-B162-70 NI 136-174M 1880mAh Hel 152-174M USChgr \$1.078.00 S TP8140-B162-70 NI 136-570M 1880mAh Whp 350-700M USChgr \$1.078.00 S TP8140-L362-70 NI 856-570M 1880mAh Whp 450-220N USChgr \$1.078.00 S TP8140-L362-70 NI 856-570M 1880mAh Whp 450-200N USChgr \$1.078.00 S TP8140-L362-70 NI 856-570M 1880mAh Whp 450-200N USChgr \$1.078.00 S TP8140-L362-70 NI 856-570M 1880mAh W	S	TP8140-B1GA-70	NI 136-174M 1880mAh Hel 136-151M	\$ 995.00
S TP8140-C0G7-70 NI 356-700M IS 950.00M \$ 995.00 S TP8140-HSGE-70 NI 340-770M S995.00 S 995.00 S TP8140-HSGE-70 NI 400-770M S995.00 S 995.00 S TP8140-HSGE-70 NI 400-530M S995.00 S 995.00 S TP8140-HSGE-70 NI 806-870M HS06-870M S 1.108.00 S TP8140-BSGE-70 NI 856-72M HS06-870M S 1.108.00 S TP8140-BSGE-70 NI 136-174M HS06-810M USChgr S 1.078.00 S TP8140-BSGE-70 NI 136-174M HS06-700M USChgr S 1.078.00 S TP8140-BSGE-70 NI 405-530M HS06-700M USChgr S 1.078.00 S TP8140-HSGE-70 NI 405-530M HS06-700M USChgr S 1.078.00 S TP8140-HSGE-70 NI 405-530M HS06-700M USChgr S 1.980.00 S TP8140-HSGE-70 NI 450-530M HS06-700M USChgr S 1.980.00 S TP8140-LS	S	TP8140-B1GB-70	NI 136-174M 1880mAh Hel 150-162M	\$ 995.00
S TP8140-G208-70 NI 360-700M 1890mAb Whp 360-700M \$ 995.00 S TP8140-HSGE-70 NI 450-530M 1890mAb Whp 400-770M \$ 995.00 S TP8140-HSGE-70 NI 808-630M 1890mAb Whp 752-370M \$ 1,108.00 S TP8140-LSGE-70 NI 886-641M 1890mAb Whp 752-370M \$ 1,078.00 S TP8140-LSGE-70 NI 886-641M 1890mAb Whp 752-370M \$ 1,078.00 S TP8140-B1GE-70 NI 136-174M 1890mAb Hel 138-153M USChgr \$ 1,078.00 S TP8140-G208-70 NI 136-174M 1890mAb Hel 152-174M USChgr \$ 1,078.00 S TP8140-G208-70 NI 136-270M 1890mAb Whp 350-700M USChgr \$ 1,078.00 S TP8140-G208-70 NI 400-770M 1890mAb Whp 350-700M USChgr \$ 1,078.00 S TP8140-HSGE-70 NI 400-770M 1890mAb Whp 450-220M USChgr \$ 1,078.00 S TP8140-HSGE-70 NI 806-870M 1890mAb Whp 450-200M USChgr \$ 1,078.00 S TP8140-HSGE-70 NI 806-870M 1890mAb Whp 450-200M USChgr \$ 1,078.00 S TP8140-HSGE-70 NI 806-870M 1890mAb Whp 762-370M USChgr \$ 1,078.00 S TP8140-SECHMAD	S	TP8140-B1GC-70	NI 136-174M 1880mAh Hel 162-174M	\$ 995.00
S TP8140-H56E-70 NI 400-770M 1880mAh Whp 400-770M \$ 995.00 S TP8140-H56E-70 NI 806-870M 1880mAh Whp 752-870M \$ 1,108.00 S TP8140-410-30P-70 NI 906-870M 1880mAh Whp 752-870M \$ 1,018.00 S TP8140-130P-70 NI 936-870M 1880mAh Whp 752-870M \$ 1,078.00 S TP8140-8108-70 NI 136-174M 1880mAh Hel 150-1540 UISChgr \$ 1,078.00 S TP8140-8108-70 NI 138-174M 1880mAh Hel 150-1260 UISChgr \$ 1,078.00 S TP8140-6007.70 NI 325-700M 1880mAh Hel 136-2570M UISChgr \$ 1,078.00 S TP8140-6207.70 NI 325-700M 1880mAh Whp 450-700M UISChgr \$ 1,078.00 S TP8140-4208.77 NI 485-530M 1880mAh Whp 450-200M UISChgr \$ 1,078.00 S TP8140-4208.77 NI 485-530M 1880mAh Whp 450-200M UISChgr \$ 1,078.00 S TP8140-4208.77 NI 4865-530M 1880mAh Whp 752-670M UISChgr \$ 1,078.00 S TP8140-4208.77 NI 486-530M NB 750-70M UISChgr \$ 1,078.00 S TP8140-4208.77 NI 486-530M NB 750-70M UISChgr \$ 1,078.00 S TP8140-4208.77 NI 486-530M NB 750-70M UISChgr \$ 1,078.00 S<	S	TP8140-C0GT-70	NI 174-225M 1880mAh Hel 136-225M	\$ 995.00
S TP8140-H6GF-70 NI 450-530M 1880mAh Whp 752-870M \$ 1,108.00 S TP8140-43GP-70 NI 959-540M 1880mAh Whp 752-870M \$ 1,108.00 S TP8140-43GP-70 NI 959-540M 1880mAh Hel 136-151M USChgr \$ 1,078.00 S TP8140-81GA.70 NI 358-174M 1880mAh Hel 136-151M USChgr \$ 1,078.00 S TP8140-81GC.70 NI 354-174M 1880mAh Hel 136-162M USChgr \$ 1,078.00 S TP8140-2067.70 NI 350-700M 1880mAh Whp 362-700M USChgr \$ 1,078.00 S TP8140-2067.70 NI 350-700M 1880mAh Whp 362-700M USChgr \$ 1,078.00 S TP8140-45GE-70 NI 450-530M 1880mAh Whp 762-870M USChgr \$ 1,078.00 S TP8140-45GE-70 NI 450-530M 1880mAh Whp 762-870M USChgr \$ 1,078.00 S TP8140-45GE-70 NI 450-530M 1880mAh Whp 762-870M USChgr \$ 1,078.00 S TP8140-45GE-70 NI 450-530M 1880mAh Whp 762-870M USChgr \$ 1,078.00 S TP8140-45GE-70 NI 450-530M 1880mAh Whp 762-870M USChgr \$ 1,078.00 S TP8140-45GE-70 NI 450-530M 1880mAh Whp 762-870M USChgr \$ 1,078.00 S TP8140-45GE-70 NI 450-520M USChgr \$ 1,078.00	S	TP8140-G2GR-70	NI 350-700M 1880mAh Whp 350-700M	\$ 995.00
S TP8140-46GM-70 NI 906-9701 1880mAh Whp 762-970M \$ 1,108.00 S TP8140-130F-70 NI 35-1744 1880mAh Hel 136-151M USChgr \$ 1,078.00 S TP8140-B108-70 NI 35-1744 1880mAh Hel 150-162W USChgr \$ 1,078.00 S TP8140-B108-70 NI 35-1744 1880mAh Hel 150-162W USChgr \$ 1,078.00 S TP8140-2007-70 NI 35-1744 1880mAh Hel 156-270W USChgr \$ 1,078.00 S TP8140-2007-70 NI 350-700M 1880mAh Whg 350-700M USChgr \$ 1,078.00 S TP8140-2007-70 NI 350-700M 1880mAh Whg 450-270M USChgr \$ 1,078.00 S TP8140-420F-70 NI 350-700M 1880mAh Whg 762-270M USChgr \$ 1,191.00 S TP8140-430F-70 NI 896-930M 1880mAh Whg 762-270M USChgr \$ 1,191.00 S TP8140-430F-70 NI 896-930M 1880mAh Whg 762-270M USChgr \$ 1,191.00 S TP8140-430F-70 NI 896-930M 1880mAh Whg 762-270M USChgr \$ 1,91.00 S TP8140-430F-70 NI 896-931M 1880mAh Whg 762-270M USChgr \$ 1,91.00 S TP300-3400HS0mAh Kegr \$ 1,91.00 \$ 1,91.00 S TP30-04-04CS	S	TP8140-H5GE-70	NI 400-770M 1880mAh Whp 400-770M	\$ 995.00
S TP8140-L3GP-70 NI 985-941M 1880mAh Whp 752-370M \$ 1,108.00 S TP8140-81GA-70 NI 136-174M 1880mAh Hel 136-161M USChgr \$ 1,078.00 S TP8140-81GC-70 NI 136-174M 1880mAh Hel 136-174M USChgr \$ 1,078.00 S TP8140-20GT-70 NI 137-174M 1880mAh Hel 136-225M USChgr \$ 1,078.00 S TP8140-20GT-70 NI 357-70M 1880mAh Hel 136-225M USChgr \$ 1,078.00 S TP8140-20GT-70 NI 400-770M 1880mAh Whp 400-770M USChgr \$ 1,078.00 S TP8140-45GF-70 NI 400-770M 1880mAh Whp 400-770M USChgr \$ 1,078.00 S TP8140-45GF-70 NI 400-770M 1880mAh Whp 782-370M USChgr \$ 1,078.00 S TP8140-45GF-70 NI 405-530M 1880mAh Whp 782-370M USChgr \$ 1,078.00 S TP8140-45GF-70 NI 405-530M 1880mAh Whp 782-370M USChgr \$ 1,078.00 S TP8140-13GF-70 NI 495-530M 1880mAh Whp 782-370M USChgr \$ 1,078.00 S TP8140-13GF-70 NI 495-530M 1880mAh Whp 782-370M USChgr \$ 1,078.00 S TP8140-13GF-70 NI 495-530M 1880mAh Whp 782-370M USChgr \$ 1,078.00 S <	S	TP8140-H6GF-70	NI 450-530M 1880mAh Whp 450-520M	\$ 995.00
S TP8140-L3GP-70 NI 956-941M 1880mAh Whp 752-870M \$ 1,018.00 S TP8140-81GA-70 NI 136-174M 1880mAh Hel 136-162M USChgr \$ 1,078.00 S TP8140-81GC-70 NI 136-174M 1880mAh Hel 136-174M USChgr \$ 1,078.00 S TP8140-20GT-70 NI 137-174M 1880mAh Hel 152-174M USChgr \$ 1,078.00 S TP8140-20GT-70 NI 137-225M 1880mAh Hel 136-225M USChgr \$ 1,078.00 S TP8140-20GT-70 NI 420-770M 1880mAh Whp 400-770M USChgr \$ 1,078.00 S TP8140-42GP.70 NI 480-520M USChgr \$ 1,078.00 S TP8140-45GF-70 NI 480-520M USChgr \$ 1,078.00 S TP8140-45GF.70 NI 480-520M USChgr \$ 1,078.00 S TP8140-45GF.70 NI 480-520M USChgr \$ 1,078.00 S TP8140-13GF.70 NI 686-870M 1880mAh Whp 782-270M USChgr \$ 1,078.00 S TP8140-13GF.70 NI 686-870M 1880mAh Whp 782-870M USChgr \$ 1,078.00 S TP8140-13GF.70 NI 686-870M 1880mAh Whp 782-870M USChgr \$ 1,078.00 S TP8140-14GF.70 NI 896-841M 1880mAh Whp 782-870M USChgr \$ 1,078.00 S TP8140-14GF.70 N	S	TP8140-K6GM-70	NI 806-870M 1880mAh Whp 762-870M	\$ 1,108.00
S TP8140-81G8.70 NI 136-174M 1880mAh Hei 156-1674 WSChgr \$ 1,078.00 S TP8140-81G8.70 NI 136-174M 1880mAh Hei 156-1264 WSChgr \$ 1,078.00 S TP8140-2GG7.70 NI 136-174M 1880mAh Hei 156-226WSChgr \$ 1,078.00 S TP8140-2GG7.70 NI 136-174M 1880mAh Hei 136-226WUSChgr \$ 1,078.00 S TP8140-416GF.70 NI 400-770M 1880mAh Whp 350-700M USChgr \$ 1,078.00 S TP8140-416GF.70 NI 400-770M 1880mAh Whp 752-870M USChgr \$ 1,078.00 S TP8140-416GF.70 NI 806-870M 1880mAh Whp 752-870M USChgr \$ 1,078.00 S TP8140-416GF.70 NI 806-844M 1880mAh Whp 752-870M USChgr \$ 1,078.00 S TP8140-416GF.70 NI 806-844M 1880mAh Whp 752-870M USChgr \$ 1,078.00 S TP8140-416GF.70 NI 806-844M 1880mAh Whp 752-870M USChgr \$ 1,078.00 S TP8140-46GF.70 NI 806-844M 1880mAh Whp 752-870M USChgr \$ 1,078.00 C TD80404-SERAA Sperker Mic Semma	S	TP8140-L3GP-70	•	
S TP8140-B1GC-7D NI 138-174M 1880mAh Hel 152-174M USChgr \$ 1,078.00 S TP8140-B1GC-7D NI 134-225M 1880mAh Hel 152-225MUSChgr \$ 1,078.00 S TP8140-63CF.7D NI 174-225M 1880mAh Hel 152-225MUSChgr \$ 1,078.00 S TP8140-63CF.7D NI 400-770M 1880mAh Whp 350-700M USChgr \$ 1,078.00 S TP8140-46GE-7D NI 400-770M 1880mAh Whp 250-700M USChgr \$ 1,191.00 S TP8140-46GE-7D NI 480-530M 1880mAh Whp 752.370M USChgr \$ 1,191.00 Analog Portable Radio - Accessories Statistica Statisti	S	TP8140-B1GA-7D		
S TP8140-ABICC-7D NI 138-174M 1880mAh Hel 1362-174M USChgr \$ 1,078.00 S TP8140-COGT-7D NI 356-700M 1880mAh Hel 1362-28MUSChgr \$ 1,078.00 S TP8140-HSGE-7D NI 366-700M 1880mAh Whp 350-700M USChgr \$ 1,078.00 S TP8140-HSGE-7D NI 480-770M 1880mAh Whp 450-570M USChgr \$ 1,078.00 S TP8140-HSGE-7D NI 480-470M 1880mAh Whp 752-470M USChgr \$ 1,191.00 S TP8140-HSGE-7D NI 880-470M 1880mAh Whp 752-470M USChgr \$ 1,191.00 S TP8140-LSGP-7D NI 880-470M 1880mAh Whp 752-470M USChgr \$ 1,191.00 Analog Portable Radio - Accessories S TP8140-13GP-7D NI 880-470M 1880mAh Whp 752-470M USChgr \$ 1,678.00 C Item Code De38271ption List Price S 1,678.00 T03-00045-JFAC SpkrMic, Storm, E-Button, 2.5mm S 6 5.00 S 703-00045-JFAC SpkrMic, Storm, E-Button, 2.5mm S 6 5.00 S T03-00045-JFAC SpkrMic, Storm, E-Button, 2.5mm Jack \$ 65.00 S 703-00045-JFAC SpkrMic, Storm, 2.5mm Jack \$ 65.00 S				
S TP8140-C067.7D NI 174-225M 1880mAh Hel 136-225MUSChgr \$ 1,078.00 S TP8140-H5GE-7D NI 360-700 HISOMAh Whg 360-700M USChgr \$ 1,078.00 S TP8140-H5GE-7D NI 450-330M 1880mAh Whg 450-420M USChgr \$ 1,078.00 S TP8140-H5GE-7D NI 450-330M 1880mAh Whg 762-470M USChgr \$ 1,078.00 S TP8140-H3GE-7D NI 886-370H 1830mAh Whg 762-470M USChgr \$ 1,191.00 Analog Portable Radio - Accessories TP8140-L3GF-7D NI 886-374H 1880mAh Whg 762-470M USChgr \$ 1,191.00 Analog Portable Radio - Accessories Speaker Mics \$ 1,191.00 \$ 1,191.00 Analog Oviris-MBAA TP8140-X3CK \$ 162.00 \$ 162.00 S T03-0045-JFAC SpkrMic, Evolution, E-Button, 2.5mm Jack \$ 162.00 S T03-0045-JFAC SpkrMic, Korm, E-Button, 2.5mm Jack \$ 65.00 S T03-0045-JFAA Speaker Mic Light Weight 3.5mm Jack \$ 65.00 S T03-0045-FRAA Speaker Mic Light Weight 3.5mm Jack \$ 67.00 S T03-0045-FRAA Speaker Mic Light Weight 3.5mm Jack \$ 67.00 S TP8-AA	S			
S TP8140-6268-70 NI 350-700M 1850mAh Whp 0350-700M USChgr \$ 1,078.00 S TP8140-H666F-7D NI 450-530M 1850mAh Whp 0450-520M USChgr \$ 1,078.00 S TP8140-H66F-7D NI 450-530M 1850mAh Whp 762-870M USChgr \$ 1,078.00 S TP8140-H66F-7D NI 880-847M 1800mAh Whp 762-870M USChgr \$ 1,191.00 S TP8140-L3GP-7D NI 880-847M 1800mAh Whp 762-870M USChgr \$ 1,191.00 Analog Portable Radio - Accessories TP8140-136P-7D NI 880-847M 1800mAh Whp 762-870M USChgr \$ 1,191.00 FIR340-L3GP-7D NI 880-430M 1800mAh Whp 762-870M USChgr \$ 1,191.00 \$ 1,191.00 Analog Portable Radio - Accessories TP8140-136P-7D NI 880-441 1800-136 \$ 1,191.00 S T03-00045-FRA SpkrMic, Norm, E-Button, 2.5mm \$ 162.00 \$ 162.00 S T03-00045-FRA SpkrMic [Storm, E-Button, 2.5mm, Jack \$ 65.00 \$ 1703-00045-FRA \$ speaker Mic Light-Weight 3.5mm Jack \$ 65.00 S T03-00045-FRA Speaker Mic Light-Weight 3.5mm Jack \$ 67.00 \$ 770.00 S T03-00045-FRA Speaker Mic Light-Weight 3.5mm Jack \$ 67.00			0	
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S TP8140+I6GF-7D NI 450-530M 1880mAh Whp 450-620M USChgr \$ 1,191.00 S TP8140-L3GP-7D NI 806-8470M 1880mAh Whp 762-870M USChgr \$ 1,191.00 Analog Portable Radio - Accessories S 1,191.00 Image: Comparison of the second se				
S TP8140-K6GM-7D NI 806-870M 1880mAh Whp 762-870M USChgr \$ 1,191.00 S TP8140-L3GP-7D NI 896-941M 1880mAh Whp 762-870M USChgr \$ 1,191.00 Analog Portable Radio - Accessories S S TP8100 - Audio Accessories - Speaker Mics Isterrice E/C Item Code Description Isterrice S T03-0045-JFAC SpkrMic, Evolution, E-Button, 2.5mm \$ 186.00 S T03-0045-JFAC SpkrMic, Storm, E-Button, 2.5mm, Jack \$ 279.00 S T03-0045-JFAC SpkrMic, Storm, E-Button, 2.5mm, Jack \$ 65.00 S T03-0045-FRAA Speaker Mic Light Weight 3.5mm Jack \$ 67.00 T03-00045-FRAA Spkr Mic Medium-Weight 3.5mm Jack \$ 67.00 TP8100 - Audio Accessories - Ear Pieces Eir Piece Stor.00 TP8100 - Audio Accessories - Ear Pieces \$ 57.00 S TP4-AA-215 Flexi Open Ear Insert - Left Ear Medium \$ 17.00 S TPA-AA-216 Flexi Open Ear Insert - Left Ear Medium \$ 17.00 S TPA-AA-217 Flexi Open Ear Insert - Right Ear Medium \$ 17.00				
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Analog Portable Radio - Accessories TP8100 - Audio Accessories - Speaker Mics E/C Item Code Description List Price S T03-00045-LFAC SpkrMic, Evolution, E-Button, 2.5mm \$ 162.00 S T03-00045-LFAC SpkrMic, Storm, E-Button, 2.5mm \$ 215.00 S T03-00045-LFAC SpkrMic, Storm, E-Button, 2.5mm, Jack \$ 65.00 S T03-00045-ENAA Speaker Mic Light-Weight 3.5mm Jack \$ 65.00 S T03-00045-FRAA Speaker Mic Light-Weight 3.5mm Jack \$ 67.00 S T03-00045-FRAA Speaker Mic Medium-Weight 3.5mm Jack \$ 67.00 S T03-00045-FRAA Speaker Mic Light-Weight 3.5mm Jack \$ 67.00 S T03-00045-FRAA Speaker Mic Light-Weight 3.5mm Jack \$ 67.00 S T03-00045-FRAA Speaker Mic Idiph-Weight 3.5mm Jack \$ 67.00 S T03-00045-FRAA Speaker Mic Idiph-Weight 3.5mm Jack \$ 67.00 S T03-00045-FRAA Speaker Mic Idiph-Weight 3.5mm Jack \$ 77.00 S TPA-AA-214 Earpiece Quick Disconnect Acoustic x5 \$ 57.00 S TPA-AA-215 Flexi O				
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S T03-00120-GAAE Earhook Transparent Hi-Volume 3.5mm \$ 12.00 S T03-00120-HAAD Earphone Transparent D-Ring Hi-Vol 2.5mm \$ 12.00 S T03-00120-HAAE Earphone Transparent D-Ring Hi-Vol 3.5mm \$ 12.00 TP8100 - Audio Accessories - Adaptors \$ 12.00 E/C Item Code Description \$ 157.00 S T03-00119-XAAA TP81 Accessory Adaptor Hirose-6-Pin \$ 157.00 S T03-00119-XBAA TP81 Accessory Adaptor 7.5mm \$ 52.00 TP8100 - Audio Accessories - Headsets E/C Item Code Description S T03-00149-XBAA TP81 Accessory Adaptor 7.5mm \$ 52.00 TP8100 - Audio Accessories - Headsets E/C Item Code Description S T03-00046-EFAA Headset L-Wt Behind-Hd Boom-Mic Fngr-PTT \$ 76.00				
ST03-00120-HAADEarphone Transparent D-Ring Hi-Vol 2.5mm\$ 12.00ST03-00120-HAAEEarphone Transparent D-Ring Hi-Vol 3.5mm\$ 12.00TP8100 - Audio Accessories - AdaptorsE/CItem CodeDescriptionE/CItem CodeDescriptionList PriceST03-00119-XAAATP81 Accessory Adaptor Hirose-6-Pin\$ 157.00ST03-00119-XBAATP81 Accessory Adaptor 7.5mm\$ 52.00TP8100 - Audio Accessories - HeadsetsE/CItem CodeDescriptionE/CItem CodeDescriptionList PriceST03-00046-EFAAHeadset L-Wt Behind-Hd Boom-Mic Fngr-PTT\$ 76.00				1
S T03-00120-HAAE Earphone Transparent D-Ring Hi-Vol 3.5mm \$ 12.00 TP8100 - Audio Accessories - Adaptors E/C Item Code Description List Price S T03-00119-XAAA TP81 Accessory Adaptor Hirose-6-Pin \$ 157.00 \$ 157.00 S T03-00119-XBAA TP81 Accessory Adaptor 7.5mm \$ 52.00 TP8100 - Audio Accessories - Headsets E/C Item Code Description E/C Item Code Description \$ 52.00 TP8100 - Audio Accessories - Headsets E/C \$ 52.00 E/C Item Code Description \$ 52.00 S T03-00046-EFAA Headset L-Wt Behind-Hd Boom-Mic Fngr-PTT \$ 76.00				
TP8100 - Audio Accessories - Adaptors E/C Item Code Description List Price S T03-00119-XAAA TP81 Accessory Adaptor Hirose-6-Pin \$ 157.00 S T03-00119-XBAA TP81 Accessory Adaptor 7.5mm \$ 52.00 TP8100 - Audio Accessories - Headsets E/C Item Code Description E/C Item Code Description List Price S T03-00046-EFAA Headset L-Wt Behind-Hd Boom-Mic Fngr-PTT \$ 76.00				
E/CItem CodeDescriptionList PriceST03-00119-XAAATP81 Accessory Adaptor Hirose-6-Pin\$ 157.00ST03-00119-XBAATP81 Accessory Adaptor 7.5mm\$ 52.00TP8100 - Audio Accessories - HeadsetsE/CItem CodeDescriptionE/CItem CodeDescriptionList PriceST03-00046-EFAAHeadset L-Wt Behind-Hd Boom-Mic Fngr-PTT\$ 76.00				\$ 12.00
S T03-00119-XAAA TP81 Accessory Adaptor Hirose-6-Pin \$ 157.00 S T03-00119-XBAA TP81 Accessory Adaptor 7.5mm \$ 52.00 TP8100 - Audio Accessories - Headsets E/C Item Code Description List Price S T03-00046-EFAA Headset L-Wt Behind-Hd Boom-Mic Fngr-PTT \$ 76.00				
S T03-00119-XBAA TP81 Accessory Adaptor 7.5mm \$ 52.00 TP8100 - Audio Accessories - Headsets E/C Item Code Description List Price S T03-00046-EFAA Headset L-Wt Behind-Hd Boom-Mic Fngr-PTT \$ 76.00				
TP8100 - Audio Accessories - Headsets E/C Item Code Description List Price S T03-00046-EFAA Headset L-Wt Behind-Hd Boom-Mic Fngr-PTT \$ 76.00				
E/C Item Code Description List Price S T03-00046-EFAA Headset L-Wt Behind-Hd Boom-Mic Fngr-PTT \$ 76.00				\$ 52.00
S T03-00046-EFAA Headset L-Wt Behind-Hd Boom-Mic Fngr-PTT \$ 76.00				
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S T03-00120-EEBA Headset Heavy-Duty Overhead Hirose 6Pin \$ 524.00			· · ·	
	6	T03-00120-FFRA	Headset Heavy-Duty Overhead Hirose 6Pin	\$ 524.00

IP	8100 - Audio Accessori	es - Surveillance Kits		
E/C	Item Code	Description	Lis	st Price
S	TPB-AA-203	TP8 2Wire Ephone A-Ear Lpl Mic/Palm PTT	\$	62.00
S	T03-00047-AAAA	Kit, 2-Wire Surveillance	\$	233.00
S	T03-00047-BAAA	Covert Kit Eartube In Ear Lapel Mic PTT	\$	54.00
S	T03-00047-CBAA	Covert Kit Earhanger Lapel Mic With PTT	\$	54.00
TP	8100 - Audio Accessori	es - Connector Kit		
E/C	Item Code	Description	Lis	st Price
S	TPB-AA-005	TP8 Accessory Connector Kit	\$	34.00
TP	8100 - Batteries			
E/C	Item Code	Description	Lis	st Price
Fo	r additional Battery sales outs	ide of a package please allow a minimum of 8 weeks for delivery		
S	T03-00011-AAAA	Battery, Li-Ion 1880mAh	\$	93.00
S	T03-00011-CAAA	Battery, Li-Ion 2400mAh	\$	135.00
S	T03-20011-AAAA	TP8100 Battery - IS FM Li-Ion 1880mAh	\$	157.00
S	T03-24011-AAAA	TP8100 Battery - NI FM Li-Ion 1880mAh	\$	157.00
TP	8100 - Belt Clips			
E/C		Description	Lis	st Price
S	TPA-CA-201	TP8/9 Belt Clip 55mm	\$	11.00
s	TPA-CA-208	Belt Clip Adaptor for 55mm Clp	\$	16.00
	8100 - Chargers	i i contro di		
E/C		Description	ون_ا	st Price
S	T03-00012-AAAA	Charger Single Fast Li-Ion No Plug Pack	\$	66.00
s	T03-00012-AEFA	Charger, Single Bay, Li-Ion w/Plug Pack	\$	83.00
S	T03-00013-AAAA	Charger Multi Li-Ion No Mains Cable	\$	695.00
s	T03-00013-AADA	Charger Multi Li-Ion No Cable	\$	765.00
s	T03-00013-AEDA	Charger, Multi Bay, Li-lon w/Cable	\$	805.00
	8100 - Antennas	onarger, water bay, Erion woable	Ψ	000.00
E/C		Description		t Duine
		Description		st Price
s		TD9/0 Antonno 126 225MUz Hol Tunoblo	¢	22.00
c	TPA-AN-001	TP8/9 Antenna 136-225MHz Hel Tunable	\$	22.00
S	TPA-AN-002	Antenna, 136-151MHz Hel	\$	22.00
S	TPA-AN-002 TPA-AN-003	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel	\$ \$	22.00 22.00
S S	TPA-AN-002 TPA-AN-003 TPA-AN-004	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel	\$ \$ \$	22.00 22.00 22.00
S S S	TPA-AN-002 TPA-AN-003 TPA-AN-004 TPA-AN-011	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip	\$ \$ \$	22.00 22.00 22.00 22.00
S S S	TPA-AN-002 TPA-AN-003 TPA-AN-004 TPA-AN-011 TPA-AN-012	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip	\$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00
S S S S	TPA-AN-002 TPA-AN-003 TPA-AN-004 TPA-AN-011 TPA-AN-012 TPA-AN-013	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 400-470MHz, Hel	\$ \$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00 22.00 22.00
S S S S S	TPA-AN-002 TPA-AN-003 TPA-AN-004 TPA-AN-011 TPA-AN-012 TPA-AN-013 TPA-AN-015	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 400-470MHz, Hel Antenna, 450-520MHz, Hel	\$ \$ \$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
S S S S S	TPA-AN-002 TPA-AN-003 TPA-AN-004 TPA-AN-011 TPA-AN-012 TPA-AN-013 TPA-AN-015 TPA-AN-017	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 400-470MHz, Hel Antenna, 450-520MHz, Hel TP81 Antenna 350-400MHz Hel	\$ \$ \$ \$ \$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
S S S S S S	TPA-AN-002 TPA-AN-003 TPA-AN-004 TPA-AN-011 TPA-AN-012 TPA-AN-013 TPA-AN-015 TPA-AN-017 TPA-AN-018	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 400-470MHz, Hel Antenna, 450-520MHz, Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Whp	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
S S S S S S S S	TPA-AN-002 TPA-AN-003 TPA-AN-004 TPA-AN-011 TPA-AN-012 TPA-AN-013 TPA-AN-015 TPA-AN-017 TPA-AN-018 TPA-AN-019	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 400-470MHz, Hel Antenna, 450-520MHz, Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Whp TP81 Antenna 340-390MHz Hel	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
S S S S S S S S S S	TPA-AN-002 TPA-AN-003 TPA-AN-014 TPA-AN-011 TPA-AN-012 TPA-AN-013 TPA-AN-015 TPA-AN-017 TPA-AN-018 TPA-AN-019 TPA-AN-022	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 450-520MHz, Hel Antenna, 450-520MHz, Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Whp TP81 Antenna 340-390MHz Hel Antenna, 762-870MHz, 1/2 Wave Whip	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
S S S S S S S S S S S S	TPA-AN-002 TPA-AN-003 TPA-AN-014 TPA-AN-011 TPA-AN-012 TPA-AN-013 TPA-AN-015 TPA-AN-017 TPA-AN-018 TPA-AN-019 TPA-AN-022	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 400-470MHz, Hel Antenna, 450-520MHz, Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Whp TP81 Antenna 340-390MHz Hel Antenna, 762-870MHz, 1/2 Wave Whip TP81 Antenna 896-941MHz 1/4 Wave Whp	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
S S S S S S S S S S S S S S	TPA-AN-002 TPA-AN-003 TPA-AN-014 TPA-AN-011 TPA-AN-012 TPA-AN-013 TPA-AN-015 TPA-AN-017 TPA-AN-018 TPA-AN-019 TPA-AN-022 TPA-AN-024	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 400-470MHz, Hel Antenna, 450-520MHz, Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Whp TP81 Antenna 340-390MHz Hel Antenna, 762-870MHz, 1/2 Wave Whip TP81 Antenna 896-941MHz 1/4 Wave Whp Antenna, 896-941M, 1/2 Wave Whip	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
s s s s s s s s s s s r tP	TPA-AN-002 TPA-AN-003 TPA-AN-014 TPA-AN-011 TPA-AN-012 TPA-AN-013 TPA-AN-015 TPA-AN-017 TPA-AN-018 TPA-AN-019 TPA-AN-022 TPA-AN-024 TPA-AN-025	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 450-520MHz, Hel Antenna, 450-520MHz, Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 340-390MHz Hel Antenna, 762-870MHz, 1/2 Wave Whip TP81 Antenna 896-941MHz 1/4 Wave Whp Antenna, 896-941M, 1/2 Wave Whip TP8/TP9 NYY Duty Leather	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
S S S S S S S S S S S S TP E/C	TPA-AN-002 TPA-AN-003 TPA-AN-014 TPA-AN-011 TPA-AN-012 TPA-AN-013 TPA-AN-015 TPA-AN-017 TPA-AN-018 TPA-AN-019 TPA-AN-022 TPA-AN-024 TPA-AN-025 8100 - Carry Case - Hea Item Code	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 450-520MHz, Hel Antenna, 450-520MHz, Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Whp TP81 Antenna 340-390MHz Hel Antenna, 762-870MHz, 1/2 Wave Whip TP81 Antenna 896-941MHz 1/4 Wave Whp Antenna, 896-941M, 1/2 Wave Whip TP8/TP9 NYY Duty Leather Description	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
s s s s s s s s s s s s s s s s s s s	TPA-AN-002 TPA-AN-003 TPA-AN-004 TPA-AN-011 TPA-AN-012 TPA-AN-013 TPA-AN-015 TPA-AN-017 TPA-AN-018 TPA-AN-019 TPA-AN-022 TPA-AN-024 TPA-AN-025 8100 - Carry Case - Hea Item Code T03-00133-ABBA	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 450-520MHz, Hel Antenna, 450-520MHz, Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Hel Antenna, 762-870MHz, 1/2 Wave Whip TP81 Antenna 896-941MHz 1/4 Wave Whip Antenna, 896-941MHz 1/4 Wave Whip Antenna, 896-941M, 1/2 Wave Whip TP8/TP9 NYY Duty Leather Description Case Hvy Duty Leather 4Key D-Clip Loop	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
S S S S S S S S S S S S S S S S S S S	TPA-AN-002 TPA-AN-003 TPA-AN-004 TPA-AN-011 TPA-AN-012 TPA-AN-013 TPA-AN-015 TPA-AN-017 TPA-AN-018 TPA-AN-019 TPA-AN-022 TPA-AN-025 8100 - Carry Case - Hea Item Code T03-00133-ABBA	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 450-520MHz, Hel Antenna, 450-520MHz, Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Whp TP81 Antenna 340-390MHz Hel Antenna, 762-870MHz, 1/2 Wave Whip TP81 Antenna 896-941MHz 1/4 Wave Whp Antenna, 896-941MHz 1/4 Wave Whp Antenna, 896-941M, 1/2 Wave Whip TP8/TP9 Vy Duty Leather Description Case Hvy Duty Leather 4Key D-Clip Loop Case Hvy Duty Leather 16Key D-Clip Loop	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
S S S S S S S S S S S TP EC S S TP	TPA-AN-002 TPA-AN-003 TPA-AN-014 TPA-AN-011 TPA-AN-012 TPA-AN-013 TPA-AN-015 TPA-AN-017 TPA-AN-018 TPA-AN-019 TPA-AN-022 TPA-AN-025 8100 - Carry Case - Hea Item Code T03-00133-ABBA T03-00133-ABCA 8100 - Carry Case - Soft	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 450-520MHz, Hel Antenna, 450-520MHz, Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 340-390MHz Hel Antenna, 762-870MHz, 1/2 Wave Whip TP81 Antenna 896-941MHz 1/4 Wave Whp Antenna, 896-941M, 1/2 Wave Whip TP81 Antenna 896-941MHz 1/4 Wave Whp Antenna, 896-941M, 1/2 Wave Whip TP81 Antenna 896-941MHz 1/4 Wave Whp Antenna, 896-941M, 1/2 Wave Whip TP8/TP9 NYY Duty Leather Description Case Hvy Duty Leather 4Key D-Clip Loop Case Hvy Duty Leather 16Key D-Clip Loop	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 22.00
s s s s s s s s s s s s s s s s s s s	TPA-AN-002 TPA-AN-003 TPA-AN-004 TPA-AN-011 TPA-AN-012 TPA-AN-013 TPA-AN-015 TPA-AN-017 TPA-AN-018 TPA-AN-019 TPA-AN-022 TPA-AN-024 TPA-AN-025 8100 - Carry Case - Hea Item Code T03-00133-ABBA T03-00133-ABCA 8100 - Carry Case - Soft Item Code	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 450-520MHz, Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Hel Antenna, 762-870MHz, 1/2 Wave Whip TP81 Antenna 896-941MHz 1/4 Wave Whip Antenna, 896-941MHz 1/4 Wave Whip Antenna, 896-941M, 1/2 Wave Whip TP8/TP9 VY Duty Leather Description Case Hvy Duty Leather 4Key D-Clip Loop Case Hvy Duty Leather 16Key D-Clip Loop Case Hvy Duty Leather 16Key D-Clip Loop	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 52.00 20.00 56.00
s s s s s s s s s s s s s s s s r P EC s	TPA-AN-002 TPA-AN-003 TPA-AN-004 TPA-AN-011 TPA-AN-012 TPA-AN-013 TPA-AN-015 TPA-AN-015 TPA-AN-017 TPA-AN-018 TPA-AN-019 TPA-AN-022 TPA-AN-025 8100 - Carry Case - Hea Item Code T03-00133-ABEA T03-00133-BEA T03-00133-BABA	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 450-520MHz, Hel Antenna, 450-520MHz, Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 340-390MHz Hel Antenna, 762-870MHz, 1/2 Wave Whip TP81 Antenna 896-941MHz 1/4 Wave Whp Antenna, 896-941MHz 1/4 Wave Whp Antenna, 896-941M, 1/2 Wave Whip TP8/TP9 IVY Duty Leather Description Case Hvy Duty Leather 4Key D-Clip Loop Case Hvy Duty Leather 16Key D-Clip Loop Case Soft Leather 4Key Use Batt Clp	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 5t Price 66.00 66.00
S S S S S S S S S S S S S S S S S S S	TPA-AN-002 TPA-AN-003 TPA-AN-014 TPA-AN-011 TPA-AN-012 TPA-AN-013 TPA-AN-015 TPA-AN-015 TPA-AN-017 TPA-AN-018 TPA-AN-019 TPA-AN-022 TPA-AN-025 8100 - Carry Case - Hea Item Code T03-00133-ABEA T03-00133-BBA T03-00133-BABA T03-00133-BABA T03-00133-BABA	Antenna, 136-151MHz Hel Antenna, 150-162MHz Hel Antenna, 162-174MHz Hel Antenna, 400-470MHz, Whip Antenna, 450-520MHz, Whip Antenna, 450-520MHz, Hel Antenna, 450-520MHz, Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Hel TP81 Antenna 350-400MHz Hel Antenna, 762-870MHz, 1/2 Wave Whip TP81 Antenna 896-941MHz 1/4 Wave Whp Antenna, 896-941M, 1/2 Wave Whip TP81 Antenna 896-941MHz 1/4 Wave Whp Antenna, 896-941M, 1/2 Wave Whip TP81 Antenna 896-941MHz 1/4 Uave Whp Antenna, 896-941M, 1/2 Wave Whip TP81 Antenna 896-941MHz 1/4 Uave Whip TP81 Antenna 896-941M, 1/2 Uave Whip Case Soft Leather 4Key Use Batt Clp Case Soft Leather 16Key Use Batt Clp	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 52.00 20.00 56.00
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TP8100 - Carry Case - Accessories

	STUD - Carry Case - I		
E/C	Item Code	Description	List Pric
S	T03-00038-0034	Shoulder Strap Case Heavy Duty Leather	\$ 36.0
S	TPA-CA-201	TP8/9 Belt Clip 55mm	\$ 11.0
S	TPA-CA-208	TP8/9 Belt Clip Adaptor for 55mm Clp	\$ 16.0
S	TPA-CA-206	TP8/9 Belt Loop for D-Clip 55mm	\$ 20.0
S	TPA-CA-207	TP8/9 Belt Loop for D-Clip 75mm	\$ 20.0
S	T03-00038-0022	TP8/9 Belt Loop for D-Stud 55mm	\$ 20.0
S	T03-00038-0023	TP8/9 Spring Clip for D-Stud 40mm	\$ 20.0
TP8	100 - Re-Skinning I	Kits	
S	T03-00118-5201	TP8110 Spares Kit No Key Re Skin Kit	\$ 78.0
S	T03-00118-5202	TP8115/35 Spares Kit 4Key Reskin Kit	\$ 81.0
S	T03-00118-5203	TP8120/40 Spares Kit 16key Reskin Kit	\$ 87.0
TP8	3100 - Programming	& Service Kits	
E/C	Item Code	Description	List Pric
S	T950-001	USB 1.1 to Serial DB9 Adaptor	\$ 86.0
S	T03-00011-FAAA	TP81/93/94 DC Service Adaptor	\$ 103.0
S	T03-00118-0101	TP81/93/94 Programming Adaptor	\$ 45.0
S	T03-00118-5101	TP8100 Programming Kit	\$ 104.0
S	T03-00118-5301	TP8100 Assembly Tool Kit	\$ 292.0
S	TPA-SV-006	Radio Programming Lead Serial PC to RJ12	\$ 69.0
s	TOPA-SV-024	Terminals Calibration Box	\$ 235.0

DMR, MPT • CORE NETWORK INFRASTRUCTURE



All prices are subject to the then current L3Harris Corporation Communications System Domestic Standard Conditions of Sale and are subject to change without notice.

Master Price List (USD)

Company Proprietary and Confidential

TN9500

TN9500 - UnifyNetwork Gateway			
E/C	Item Code	Description	List Price
S	TN95101511BA000000	TN9500 Inter-Network Gateway w/o UV	\$ 20,080.00
S	TN95100521BA000000	TN9500 Inter-Network Gateway High AC	\$ 39,834.00
S	TN95100522BA000000	ING Gtwy MPT-DMR H-LvI 48V DC	\$ 39,834.00
S	TN95100021AB000000	Server TN9500, Inter-Ntwk, High Level, AC	\$ 32,648.00
S	TN95100022AB000000	Server TN9500, Inter-Ntwk, High Level, DC	\$ 32,648.00
TN9	500 - UnifyNetwork	Licenses	
E/C	Item Code	Description	List Price
S	TNAS701	MPT-IP/DMR Inter Node Connect license	\$ 6,161.00
S	TNAS702	MPT Classic Inter Node Connect license	\$ 3,728.00
S	TNAS703	TN9500 HA Redundancy	\$ 3,191.00
S	TNAS704	Transcoding block of 1 license	\$ 2,186.00
S	TNAS705	Transcoding block of 20 licenses	\$ 34,965.00

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