

**GENERAL SERVICES ADMINISTRATION
FEDERAL SUPPLY SERVICE
AUTHORIZED FEDERAL SUPPLY SCHEDULE PRICELIST**

Online access to contract ordering information, terms and conditions, up to date pricing, and the option to create an electronic delivery order is available through GSA Advantage!®, a menu driven database system. The internet address for GSA Advantage!® is: GSAAdvantage.gov

SCHEDULE TITLE: Multiple Award Schedule (MAS)

**FSC Group: Information Technology
FSC Classes/Product Codes: 7B22, DD01, DA01, DE01**

**GSA Schedule MAS Contract 47QTCA19D00HG
Signal Mountain Networks, Inc.**



**CONTRACT PERIOD: August 13, 2019 – August 12, 2024
Modification Number: PO-0016 dated December 29, 2020**

For more information on ordering from Federal Supply Schedules go to the GSA Schedules page at GSA.gov

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CONTRACT INFORMATION:

1a. TABLE OF AWARDED SPECIAL ITEM NUMBERS (SINs)

SIN	Description
33411/RC/STLOC	Purchasing of New Electronic Equipment
811212/RC/STLOC	Maintenance of Equipment, Repair Services and/or Repair / Spare Parts
54151S/RC/STLOC	Information Technologies Professional Services
54151ECOM/RC/STLOC	Electronic Commerce and Subscription Services
517410/RC/STLOC	Commercial Satellite Communications Solutions (COMSATCOM)
OLM/RC/STLOC	Order-Level Materials (OLMs)

1b. LOWEST PRICED MODEL NUMBER AND PRICE FOR EACH SIN:

(Government price based on a unit of one) See pages 5-42

1c. HOURLY RATES (services only): See pages 32-36

- 2. MAXIMUM ORDER*:** SINs 33411, 811212, 54151S, 54151ECOM, & 517410: \$500,000
SIN OLM: \$250,000

NOTE TO ORDERING ACTIVITIES: *If the best value selection places your order over the Maximum Order identified in this catalog/price list, you have an opportunity to obtain a better schedule contract price. Before placing your order, contact the contractor. The contractor may (1) offer a new price for this requirement (2) offer the lowest price available under this contract or (3) decline the order. A delivery order that exceeds the maximum order may be placed under the schedule contract in accordance with FAR 8.404.

3. MINIMUM ORDER: None

4. GEOGRAPHIC COVERAGE:

CONUS - Domestic delivery within the 48 contiguous states and Washington, DC. Note that for products, domestic delivery also includes a port or consolidation point, within the aforementioned areas, for orders received from overseas activities.

5. POINT(S) OF PRODUCTION: Atlanta, GA, USA

6. DISCOUNTS FROM LIST PRICES OR STATEMENT OF NET PRICE: GSA Net Prices are shown on the attached GSA Pricelist. Negotiated discount has been applied and the IFF has been added.

7. QUANTITY DISCOUNTS: None

8. PROMPT PAYMENT TERMS: Net 30 Days; Information for Ordering Offices: Prompt payment terms cannot be negotiated out of the contractual agreement in exchange for other concessions.

9. FOREIGN ITEMS: None

- 10a. TIME OF DELIVERY:** 30 DAYS ARO
- 10b. EXPEDITED DELIVERY:** TO BE NEGOTIATED
- 10c. OVERNIGHT AND 2-DAY DELIVERY:** TO BE NEGOTIATED
- 10d. URGENT REQUIRMENTS:** Agencies can contact the Contractor's representative to affect a faster delivery. Customers are encouraged to contact the contractor for the purpose of requesting accelerated delivery.
- 11. FOB POINT:** Destination
- 12a. ORDERING ADDRESS:** Same as Contractor's address.
- 12b. ORDERING PROCEDURES:** For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA's) are found in Federal Acquisition Regulation (FAR) 8.405-3.
- 13. PAYMENT ADDRESS:**
Same as Contractor's address.
- 14. WARRANTY PROVISION:**
Standard Commercial Warranty. Customers should contact the contractor for a copy of the warranty.
- 15. EXPORT PACKING CHARGES:**
Not Applicable
- 16. TERMS AND CONDITIONS OF RENTAL, MAINTENANCE, AND REPAIR (IF APPLICABLE):**
Not Applicable
- 17. TERMS AND CONDITIONS OF INSTALLATION (IF APPLICABLE):**
Not Applicable
- 18a. TERMS AND CONDITIONS OF REPAIR PARTS INDICATING DATE OF PARTS PRICE LISTS AND ANY DISCOUNTS FROM LIST PRICES (IF AVAILABLE):**
Not Applicable
- 18b. TERMS AND CONDITIONS FOR ANY OTHER SERVICES (IF APPLICABLE):**
Not Applicable
- 19. LIST OF SERVICE AND DISTRIBUTION POINTS (IF APPLICABLE):**
Not Applicable
- 20. LIST OF PARTICIPATING DEALERS (IF APPLICABLE):**
Not Applicable

21. PREVENTIVE MAINTENANCE (IF APPLICABLE):

Not Applicable

22a. SPECIAL ATTRIBUTES SUCH AS ENVIRONMENTAL ATTRIBUTES (e.g. recycled content, energy efficiency, and/or reduced pollutants):

Not Applicable

22b. SECTION 508 COMPLIANCE FOR EIT: SECTION 508 COMPLIANCE FOR ELECTRONIC AND INFORMATION TECHNOLOGY (EIT): SECTION 508 COMPLIANCE INFORMATION ON THE SUPPLIES AND SERVICES IN THIS CONTRACT ARE AVAILABLE AT THE FOLLOWING WEBSITE ADDRESS (URL): [[HTTP:// WWW.SIGNALMOUNTAIN.COM/](http://www.signalmountain.com/)]

THE EIT STANDARD CAN BE FOUND AT: [WWW.SECTION508.GOV/](http://www.section508.gov/).

23. DUNS NUMBER 130105724 and CAGE Code 33PB8:

24. NOTIFICATION REGARDING REGISTRATION IN SAM: Contractor has an Active Registration in the SAM database.

CATALOG PRICE LIST

The itemized price list Signal Mountain Networks, Inc. for this contract may be obtained from:

Luis Valenzuela, 678-867-0793, luis.valenzuela@signalmountain.com

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EXHIBIT A
SIN 33411 PURCHASING OF NEW ELECTRONIC EQUIPMENT

SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1012102	16x16-VTR-50-XXXX, (Matrix/Router), 16 x 16 Victor IF / L-band Matrix Router ETL's new Victor Series of IF through L-band matrices, operate over the 50-2150MHz frequency range and provide a full fan-out high performance 16x16 matrix with local and remote control in a very compact form factor.	Each	None	1 year	US
33411	Signal Mountain	1012103	08x08-VTR-10-XXXX, (Matrix/Router), 8 x 8 Victor IF / L-band Matrix Router ETL's new Victor Series of IF through L-band matrices, operate over the 50-2150MHz frequency range and provide a full fan-out high performance 8x8 matrix with local and remote control in a very compact form factor. LNB Powering.	Each	None	1 year	US
33411	Signal Mountain	1012104	16x16-VTR-10-XXXX, (Matrix/Router), 16 x 16 Victor IF / L-band Matrix Router ETL's new Victor Series of IF through L-band matrices, operate over the 50-2150MHz frequency range and provide a full fan-out high performance 16x16 matrix with local and remote control in a very compact form factor. LNB Powering.	Each	None	1 year	US
33411	Signal Mountain	1012107	16x32-NGM-21-XXXX, (Matrix/Router), Enigma L-band Switch Matrix / Router 16 x 32. L-band signal switch matrix router. This configuration is based on the NGM-21 switch matrices	Each	None	1 year	US
33411	Signal Mountain	1012112	22420-OPT-R, (Splitter/Combiners), 8-way Single L-band Active Dextra Series Combiner with dual redundant amplifiers (OPT-R version), switchable LNB powering & -20 dB monitoring port. The Dextra combiner range has been designed for high resilience RF distribution, and optimum satellite signal quality. The combiners benefit from excellent RF performance and compact form factor as well as advanced functionality.	Each	None	1 year	US
33411	Signal Mountain	1012113	22422-OPT-R, (Splitter/Combiners), 16-way Single L-band Active Dextra Series Combiner with dual redundant amplifiers (OPT-R version), switchable LNB powering & -20 dB monitoring port. The Dextra combiner range has been designed for high resilience RF distribution, and optimum satellite signal quality. The combiners benefit from excellent RF performance and compact form factor as well as advanced functionality.	Each	None	1 year	US
33411	Signal Mountain	1012114	22412-OPT-R, (Splitter/Combiners), 8-way Single L-band Active Dextra Series Splitter with dual redundant amplifiers (OPT-R version), switchable LNB powering & -20 dB monitoring port. The Dextra splitter range has been designed for high resilience RF distribution, and optimum satellite signal quality. The splitters benefit from excellent RF performance and compact form factor as well as advanced functionality.	Each	None	1 year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1012415	22414-OPT-R, (Splitter/Combiners), 16-way Single L-band Active Dextra Series Splitter with dual redundant amplifiers (OPT-R version), switchable LNB powering & -20 dB monitoring port. The Dextra splitter range has been designed for high resilience RF distribution, and optimum satellite signal quality. The splitters benefit from excellent RF performance and compact form factor as well as advanced functionality.	Each	None	1 year	US
33411	Signal Mountain	1012116	26128 Chassis, (Modular System), Modular System - Flexible and resilient L-band signal management. ETL's Modular System offers total flexibility in managing L-band signals. It is particularly well suited to equalizing signals – offering adjustable gain and slope – but also splitting/combining and redundancy switching. The system comprises a chassis which accommodates up to 16 RF modules. These are constructed from ETL's high performance technology building blocks and can be inserted while the shelf is in service giving excellent levels of flexibility and resilience.	Each	None	1 year	US
33411	Signal Mountain	1012117	DIV-807 - Card, (Modular System), 8-way L-band splitter with variable gain, variable slope & LNB powering for ETL 26128 Modular System. RF Module 26128-DIV807: L-band variable gain and variable slope compensation 8- way splitter with (13/18V and 22KHz tone option) LNB powering and LNB current monitoring. The RF modules are fully hot swappable.	Each	None	1 year	US
33411	Signal Mountain	1012118	26128-DIV807, (Modular System), Complete populated	Each	None	1 year	US
33411	Signal Mountain	1012119	AMP-114 - Card, (Modular System), L-band dual redundant high isolation line amplifier with variable gain. RF Module 26128-AMP114: L-band dual redundant line amplifier with high isolation and variable gain. The RF modules are fully hot swappable.	Each	None	1 year	US
33411	Signal Mountain	1012120	26128-AMP114, (Modular System), Complete populated	Each	None	1 year	US
33411	Signal Mountain	1012121	DIV-407 - Card, (Modular System), 4-way L-band splitter with variable gain, variable slope & LNB powering for ETL 26128 Modular System. RF Module 26128-DIV407: L-band variable gain and variable slope compensation 4- way splitter with (13/18V and 22KHz tone option) LNB powering and LNB current monitoring. The RF modules are fully hot swappable.	Each	None	1 year	US
33411	Signal Mountain	1012122	26128-DIV407, (Modular System),	Each	None	1 year	US
33411	Signal Mountain	1012123	ALT-C303-2U, (Amplifier Chassis), Capacity 3 Modules. 2+1 configurable redundancy. Dual redundant, hot-swap power supplies.	Each	None	1 year	US
33411	Signal Mountain	1012124	ALT-C304-2U, (Amplifier Chassis), Capacity 6 Modules. 4+2 Configurable redundancy. Dual redundant, hot-swap power supplies.	Each	None	1 year	US
33411	Signal Mountain	1012125	ALT-C301-1U, (Amplifier Chassis), Capacity 2 Modules. Passive splitter with 2x2 transfer switch on output. Dual Redundant, hot-swap power supplies.	Each	None	1 year	US
33411	Signal Mountain	1012127	ALT-C201-2U, (Amplifier Chassis), Capacity 16 Modules. Dual Redundant Power Supplies. Front Panel Monitoring Display.	Each	None	1 year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1012128	ALT-C204-2U, (Amplifier Chassis), Capacity 16 Modules. Dual Redundant, hot-swap power supplies. Front Panel Monitoring Display.	Each	None	1 year	US
33411	Signal Mountain	1012129	ALT-R-L1-012, (Amplifier Card), Can be used with ALT-C304 & ALT-C303 chassis. 2+1 Redundant Amplifier Configurable 10-40 dB variable gain 0-5 dB slope compensation Local & remote control(Front panel display & Ethernet.	Each	None	1 year	US
33411	Signal Mountain	1012130	ALT-R-L1-006, (Amplifier Card), Can be used with ALT-C300, ALT-C301, ALT-C302 chassis. 1:1 Redundant Amplifier Passive splitter, 2x2 transfer switch on output with monitoring 6-36 dB variable gain 0-8 dB slope compensation Local & remote control(Front panel display & Ethernet	Each	None	1 year	US
33411	Signal Mountain	1012133	SRY-C100-1U - StingRay 16 module, 1U chassis. Includes Front Mounted Hot Swap PSUs, local and remote control/monitoring. Single IEC.	Each	None	1 year	US
33411	Signal Mountain	1012134	SRY-RX-L1-104-xxx - 1100 to 1650 nm optical receiver to L-band (850-2450) 10km nom range with TX-L1-103. Available in FC/APC & SC/APC optical connectors.	Each	None	1 year	US
33411	Signal Mountain	1012135	VTX-10-B7B7-6464 - Distributive, L-band matrix router populated with 64 inputs and 64 outputs in an 8U 19" shelf. Dual redundant hot-swap CPU, PSUs and matrix cards. Variable gain, locally controlled via touch screen and display on front panel; remotely controlled via RS232/RS485 serial and RJ45 ethernet ports including SNMP and web browser interface	Each	None	1 year	US
33411	Signal Mountain	1012137	04x04-VTR-70-XXXX Switch Matrices	Each	None	1 year	US
33411	Signal Mountain	1012138	22418-OPT-R (Dextra Series Combiner)	Each	None	1 year	US
33411	Signal Mountain	1012141	22410-OPT-R (Dextra Series Splitter)	Each	None	1 year	US
33411	Signal Mountain	1012142	22411-OPT-R (Dextra Series Splitter)	Each	None	1 year	US
33411	Signal Mountain	1012143	22413-OPT-R (Dextra Series Splitter)	Each	None	1 year	US
33411	Signal Mountain	1012145	ALT-C310-1U (Alto Redundant Amplifier Chassis)	Each	None	1 year	US
33411	Signal Mountain	1012146	SRY-C-101-1U (StingRay RF over Fiber - 100 series) - Up to 12 -, SRY-C101-1U - StingRay 12 module, 1U chassis. Includes Front Mounted. Dual redundant Hot Swap PSUs, local and remote control/monitoring. Dual IEC.	Each	None	1 year	US
33411	Signal Mountain	1012148	SRY-C-103-1U (StingRay RF over Fiber - 100 series) - Up to 12 -, SRY-C103-1U - StingRay 12 module, 1U chassis. Includes Front Mounted. Dual redundant NOT Hot Swap PSUs, local and remote control/monitoring. Dual IEC.	Each	None	1 year	US
33411	Signal Mountain	1012151	SRY-RX-B2-106-xxx (StingRay Fiber Module - 100 series) Receive - LNB Single, 50 to 2450 MHz (Broadband), SRY-RX-B2-106-xxx - 1100 to 1650 nm optical receiver to Broadband (50-2450) 10km nom range with TX-B2-105. Available in FC/APC & SC/APC optical connectors.	Each	None	1 year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1012152	SRY-TX-Y-107-xxxx (StingRay Fiber Module - 100 series) 10MHz TX - , 10 MHz reference optical transmitter, 1310nm, DFB laser 10km nominal range. Available in FC/APC & SC/APC optical connectors.	Each	None	1 year	US
33411	Signal Mountain	1012153	SRY-RX-Y-108-xxxx (StingRay Fiber Module - 100 series) 10MHz TX - , 10 MHz reference optical receiver 1100 to 1650 nm, 10km nominal range. Available in FC/APC & SC/APC optical connectors.	Each	None	1 year	US
33411	Signal Mountain	1012154	SRY-C200-1U (StingRay Fiber Module - 200 series) Up to 4 - , Dual redundant hot swap power supplies	Each	None	1 year	US
33411	Signal Mountain	1012155	SRY-C201-2U (StingRay Fiber Module - 200 series) Up to 16	Each	None	1 year	US
33411	Signal Mountain	1012156	SRY-C205-2U (StingRay Fiber Module - 200 series) Up to 16 - , 10 MHz injection chassis, 16 module, 2U High, Dual hot swap PSU with switchable LNB power.	Each	None	1 year	US
33411	Signal Mountain	1012158	SRY-ODU201 (outdoor unit) (StingRay Fiber Module - 200 series) Up to 10 - , Weatherproof (IP65) housing for up to 10 off 200 series modules, dual hot swap PSU, switchable LNB powering, local & remote control, hot swap CPU, internal fibre and RF patch panels. -20 to +45/55 C dependent on load.	Each	None	1 year	US
33411	Signal Mountain	1012159	SRY-TX-L1-201-xxxxxx (StingRay Fiber Module - 200 series) TX & 20dB Monitor - , L-band (850- 2450) to 1310nm optical transmitter, DFB laser with two stage optical isolator, 10km nominal range, with 22KHz and 13V/18V switchable LNB power at 500 mA, and with 20dB coupled input RF monitoring port. Available in FC/APC & SC/APC optical connectors.	Each	None	1 year	US
33411	Signal Mountain	1012162	SRY-RX-L1-206-xxxxxx (StingRay Fiber Module - 200 series) Twin RX - , Twin 1100 to 1650 nm optical receiver to L-band (850 to 2450MHz), 10km nominal range. Available in FC/APC & SC/APC optical connectors.	Each	None	1 year	US
33411	Signal Mountain	1012163	SRY-TX-B2-207-xxxxxx (StingRay Fiber Module - 200 series) Twin Tx - , Twin broadband (50-2450) to 1310nm optical transmitter, DFB laser with two stage optical isolator, 10km nominal range, with 22KHz and 13V/18V switchable LNB power up to 500 mA per chanel. Available in FC/APC & SC/APC optical connectors.	Each	None	1 year	US
33411	Signal Mountain	1012166	SRY-RX-Y-212-xxxxxx (StingRay Fiber Module - 200 series) 10MHz RX - , 10 MHz reference optical receiver 1100 to 1650 nm, 10km nominal range with 20dB coupled output RF monitoring port. Available in FC/APC & SC/APC optical connectors.	Each	None	1 year	US
33411	Signal Mountain	1012167	SRY-DIV-L1-213-xxxxxx (StingRay Fiber Module - 200 series) Divider - , L-band, 850 to 2450MHz hot swap active splitter, with unity gain and DC pass between the output and common ports. The module occupies one slot in a 200 series StingRay chassis. Supplied with two link cables.	Each	None	1 year	US
33411	Signal Mountain	1012168	SRY-SW-L1-214-xxxxxx (StingRay Fiber Module - 200 series) Switch - , L-band, 850 to 2450MHz hot swap, redundancy switch operating over -10 to -30dBm mean power. The module incorporates RF detection at each of its input ports and switches over if the level is outside the predefined range. It occupies one slot in a in 200 series StingRay chassis. Supplied with two link cables.	Each	None	1 year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1012169	SRY-SW-L1-220-xxxxx (StingRay Fiber Module - 200 series) Switch -, 10MHz reference hot swap, redundancy switch operating over -10 to +10dBm mean power. The module incorporates RF detection at each of its input ports and switches over if the level is outside the predefined range. It occupies one slot in a 200 series StingRay chassis.	Each	None	1 year	US
33411	Signal Mountain	1010021	Mobile Satellite System (MVSAT) Kit - (5100-12) iDirect 5100 Infiniti: system features AvL Technologies 1278K auto- acquiring mobile satellite system with 1.2 meter dish, rack mount TracStar controller, iDirect 5100 modem (can support up to 4Mb transmit / 18Mb receive throughput; 4 watt Ku Band BUC, network/routing configuration.	Each	None	1 year	US
33411	Signal Mountain	1010036	iDirect 7350 Infiniti Field Kit contains 7350 SCPC Mesh modem,3DES, 4 watt BUC, PLL LNB, premium quality cable, cable crimping tools, cable strippers, cable crimps, satellite locator, dielectric connector grease, waterproof hard shell case with telescoping handle and wheels	Each	None	1 year	US
33411	Signal Mountain	1010037	AvL mobile satellite system field service kit contains replacement gears, chains, wave guide, and repair tools.	Each	None	1 year	US
33411	Signal Mountain	1010137	SCOUT® CommNODE system field service kit contains replacement gears, chains, wave guide, and repair tools. InDoor/OutDoor Electronics, Az & 0-90° El, 1.2m 4 piece carbon fiber segmented reflector Interchangeable Feed Boom Stub, Emergency Ratchet, 2-Port Precision Feed, Auto Acquire One-Button Fully Automatic Satellite Acquisition, Controller, 4Watt BUC Mounting. Transit Case 1 - 2-axis positioner; Transit Case 2 -Reflector, feed boom, outriggers, and one feed, SCOUT® CommNODE Satellite Router, BUC/LNB	Each	None	1 year	US
33411	Signal Mountain	1010152	iDirect 5300 Infiniti Modem, features SCPC Mesh	Each	None	1 Year	US
33411	Signal Mountain	1010155	iDirect 7350 Infiniti Modem, Mesh w/ISF	Each	None	1 Year	US
33411	Signal Mountain	1010158	iDirect 5IF Hub, includes dual protocol processor, dual NMS, 3 Tx/Rx line cards	Each	None	1 Year	US
33411	Signal Mountain	1010169	Hub 3DES/AES Encryption Hub Card & Software	Each	None	1 Year	US
33411	Signal Mountain	1010171	Reference Clock Module (as spares and for hubs without RCM)	Each	None	1 Year	US
33411	Signal Mountain	1010177	iDirect FIPS-140 Encryption, per remote router	Each	None	1 Year	US
33411	Signal Mountain	1010178	iDirect iNFINITI 7350-48 (Star, MESH, SCPC, AES)	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1010189	Model 12102, Universal 4 Slot Hub, Commercial Version, bundle - 12000 hub chassis - 1IF Module - 2 iNFINITI M1D1 Line Cards - 1 Management Control Module - 2 RCMs - 2 Power Supply Modules - 2 Fans plus 1 FSM - 2 NMS eServers (dual processor) - 2 PP eServers - 2 Cisco 2960 LAN Switches with 48 Fast Ethernet & 2 Gigabit Ethernet ports - 1 KVM switch iDS 8.0.1 software	Each	None	1 year	US
33411	Signal Mountain	1010190	4IF Module – factory installed at the time of the initial order	Each	None	1 year	US
33411	Signal Mountain	1010191	4IF Module – field installed using iDirect Professional Services	Each	None	1 year	US
33411	Signal Mountain	1010192	Redundant outdoor power modules (OPM), 24V or 48V	Each	None	1 year	US
33411	Signal Mountain	1010193	Model 11212 Tactical (Ruggedized) Hub bundle (1IF, Includes 1 each DLC-T FIPS L3, DLC-R FIPS L3, PP and NMS Server, RCM-PPS, Layer 3 Switch, 4-Channel TDMA License, VMware license)	Each	None	1 year	US
33411	Signal Mountain	1010194	Redundant outdoor power modules (OPM), 24V or 48V	Each	None	1 year	US
33411	Signal Mountain	1010196	4-IF (1 Intermediate Frequency version), Includes: 2xM1D1, 2xNMS (Dual Processor) Servers, 2xPPs, 2xLAN Switches (Cisco 2960), 1xKVM 8 port Switch, 2xRCMs, 1xEDAS Board, 2xPower Supplies	Each	None	1 Year	US
33411	Signal Mountain	1010197	Implementation and Configuration Package for Model 4IF (Part Number 1010196) - Implementation Package Includes: Hub Engineering Design, Initial Network Configuration Services, Server Configuration Services, Baseband Hub Installation, Network Management System Familiarization (must be done during installation).	Each	None	1 year	US
33411	Signal Mountain	1010199	Hub AES/FIPS 140-2 Encryption Hub Card & Software for Protocol Processor; one for each of the two PP servers is required if this option is chosen	Each	None	1 Year	US
33411	Signal Mountain	1010208	Evolution Outbound/Inbound; includes 3 eM1D1 (iDX 1.1 & up)	Each	None	1 Year	US
33411	Signal Mountain	1010209	Evolution Outbound/Inbound; includes 4 eM1D1 (iDX 1.1 & up)	Each	None	1 Year	US
33411	Signal Mountain	1010211	Evolution XLC-11 Line Card: Single Modulator, Single Demod, Spread Spectrum (iDX 2.0 and up)	Each	None	1 Year	US
33411	Signal Mountain	1010212	Evolution XLC-M Line Card: Single Demod & cables (iDX 2.0 and up). Future chargeable software upgrade to multi-demod.	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1010214	EVOLUTION iDX 2.0 Starter-Pack Upgrade for 5IF Hub Chassis running iNFINITI, Includes: iDirect NMS High Capacity Server - dual processor, iDirect iVantage (NMS) Server Software (loaded), iDirect Protocol Processor High Capacity Server - dual processor, iDirect Protocol Processor System Software (loaded), XLC-11 Evolution Line Card: Single Modulator, Single Demod (iDX 2.0), XLC-M Evolution Line Card: Single Demod (iDX 2.0). Future chargeable software upgrade to multiple demods. iDX 2.0 Network Software, 3 Years 24x7 Hour Hardware Support on all bundled servers, Note: All NMS and PP Servers include one 12' KVM Cable, iDX Quick Start Evolution Installation & Training for Starter- Pack	Each	None	1 Year	US
33411	Signal Mountain	1010215	iDirect Protocol Processor Server - dual processor	Each	None	1 Year	US
33411	Signal Mountain	1010216	48-port LAN Switch	Each	None	1 Year	US
33411	Signal Mountain	1010217	KVM 16-Port Switch	Each	None	1 Year	US
33411	Signal Mountain	1010219	11F to 5IF Chassis Upgrade	Each	None	1 Year	US
33411	Signal Mountain	1010221	Private Hub to 5IF Hub Upgrade - Assuming that a customer has 336 or 3550 servers, upgrade would require returning Private Hubs and single-processor NMS servers. In return iDirect will ship a 5IF hub, 3 line cards, 2 RCMs and 2 dual processor NMS servers. Please note that customer will keep original 2 PP servers, 2 switches and 1 KVM switch from their Private Hub and use these with the new 5IF hub. If the customer has 335 servers, the only change is that the 2 PPs need to be returned to iDirect and two alternative PP servers and a KVM switch with be shipped to replace.	Each	None	1 Year	US
33411	Signal Mountain	1010222	Outdoor Power Modules (OPM) Commercial version, 24V or 48V (bundle of two OPMs supplied for redundancy)	Each	None	1 Year	US
33411	Signal Mountain	1010224	iDirect 1110 Network Accelerator	Each	None	1 Year	US
33411	Signal Mountain	1010226	iDirect NMS Server - Dual Processor	Each	None	1 Year	US
33411	Signal Mountain	1010318	AvL 1278K - 1.2 Meter Auto Acquire Antenna (Vehicular Mount)	Each	None	1 Year	US
33411	Signal Mountain	1010319	AvL 1278KFD - 1.2 Meter Auto Acquire Antenna (1 case & Vehicular Mount)	Each	None	1 Year	US
33411	Signal Mountain	1010326	AvL 2010C - 2.0 Meter Auto Acquire Antenna (Vehicular Mount)	Each	None	1 Year	US
33411	Signal Mountain	1010327	AvL 2010K - 2.0 Meter Auto Acquire Antenna (Vehicular Mount). AvL 2010K Carbon SNG 2.0m Motorized Vehicular Antenna, 2.0 meter carbon single piece reflector, 2 axis Roto- Lok positioner, 400 degree Azimuth, 0-90 degree Elevation, limited function 3 axis jog controller with auto-stow	Each	None	1 Year	US
33411	Signal Mountain	1010393	SCOUT® 2000KCB Auto Acquire Flyaway Antenna (2 cases, ~250lbs total) 1 Piece composite (easy set up) 1.0 Meter	Each	None	1 Year	US
33411	Signal Mountain	1010394	SCOUT® 1613 Tri-band Portable Manual Antenna 0.6M (2 Cases, 3pc)	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1010467	Mobile Satellite System (MVSAT) Kit - (3100-12 1 case) Features one portable case containing an iDirect 3100 Satellite Modem, AvL 1.2 Meter autoacquire antenna (Also vehicule Mountable), 4 watt BUC, LNB and Rack-mount Controller, network/routing configuration.	Each	None	1 year	US
33411	Signal Mountain	1010468	Mobile Satellite System (MVSAT) Kit - (5150-12 1 case) Features one portable case containing an iDirect 5100 Satellite Modem (AES/3DES Encryption capable*), AvL 1.2 Meter autoacquire antenna (Also vehicule Mountable), 4 watt BUC, LNB and Rack-mount Controller, network/routing configuration.	Each	None	1 year	US
33411	Signal Mountain	1010469	SCOUT CommNODE-3273B Mobile Satellite System (MVSAT) Kit - (7350-12 1 case) Features one portable case containing an iDirect 7350 Series Satellite Modem (AES/3DES FIPS 140-2 Encryption capable*), AvL 1.2 Meter autoacquire antenna (Also vehicule Mountable), 4 watt BUC, LNB and Rack-mount Controller, network/routing configuration.	Each	None	1 Year	US
33411	Signal Mountain	1010482	AvL 2460 - 2.4 Meter Auto Acquire Antenna (Flyaway Carbon Segmented] Case based	Each	None	1 Year	US
33411	Signal Mountain	1010483	Auto Acquire One-Button Fully Automatic Satellite Acquisition Controller w/ 1 RU P/S	Each	None	1 Year	US
33411	Signal Mountain	1010488	SCOUT® 1248 PIB FA - 1.2M Auto Acquire Antenna (2 cases; 160lbs+110lbs=~280lbs) 4pc - 1.2M PIB Motorized MVSAT Flyaway Antenna. Includes: 2 axis Roto-Lok® positioner 400° Az & 0- 90°, 1.2m 4 piece carbon fiber segmented reflector Interchangeable Feed Boom Stub, Emergency hand crank, 2- Port Precision Feed, Auto Acquire One-Button Fully Automatic Satellite Acquisition, Controller, 4Watt BUC Mounting. Transit Case 1 - 2-axis positioner, Transit Case 2 - Reflector, feed boom, outriggers.	Each	None	1 Year	US
33411	Signal Mountain	1010490	SCOUT-X CommNODE Custom Bundle - Ultralight Portable Satellite System & Managed Services. Features: Two/Three portable backpacks/Airline Checkable Cases containing a 0.96 M Manual fly-away antenna, iDirect Satellite Modem, 4 watt BUC, LNB , network/routing configuration. (~60lbs per case/backpack). 1 Year Managed services including 768Kbps/768Kbps Ku Secure Managed Network, No throughput/usability restrictions, 24x7x365 NOC Proactive Monitoring and support, 100% Extended Warranty, Network configuration and Bandwidth allocation changes, Secured Internet access (If desired), End User Training.	Each	None	1 Year	US
33411	Signal Mountain	1010515	SCOUT® 2030 Auto Acquire Flyaway Antenna (Airline Checkable 2 cases, ~160lbs total) 6 Piece composite 1.0 Meter	Each	None	1 Year	US
33411	Signal Mountain	1010516	SCOUT® 2040 Tri-Band Quick-Deploy Auto-Acquire Antenna (2 Cases, ~120lbs total - 6pc), 1.2/1.4m Box	Each	None	1 Year	US
33411	Signal Mountain	1010517	SCOUT® 2050 Quad-Band Portable Auto-Acquisition Antenna (3 Cases - 6pc), - 1.4M/1.6M Box	Each	None	1 Year	US
33411	Signal Mountain	1010521	iDirect Evolution X7 Satellite Router (AC in / 24VDC out)	Each	None	1 Year	US
33411	Signal Mountain	1010522	iDirect Evolution X7 Satellite Router (AC in / selectable 24-48VDC out)	Each	None	1 Year	US
33411	Signal Mountain	1010817	Non Penetrating Mount 1.2M Antenna	Each	None	1 year	US
33411	Signal Mountain	1010819	Non Penetrating Mount 2.4M Antenna	Each	None	1 year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1011101	NJR 2535S PLL LNB Ku Band, >64Kbps, Americas 11.7 – 12.20 GHz	Each	None	1 Year	US
33411	Signal Mountain	1011102	NJR 2537S PLL LNB Ku Band, >64Kbps, European Low 10.95 – 11.70 GHz	Each	None	1 Year	US
33411	Signal Mountain	1011103	NJR 2536S PLL LNB Ku Band, >64Kbps, European High 12.25 - 12.75 GHz	Each	None	1 Year	US
33411	Signal Mountain	1011104	NJS8477S PLL LNB C Band, > 64Kbps, 3.40 - 4.20 GHz	Each	None	1 Year	US
33411	Signal Mountain	1011107	4 watt Ku Band BUC	Each	None	1 Year	US
33411	Signal Mountain	1011110	8 Watt BUC NJR Ku (requires power supply SMN PN 1011115)	Each	None	1 year	US
33411	Signal Mountain	1011116	25 Watt BUC Ku	Each	None	1 year	US
33411	Signal Mountain	1040142	iDirect Hub implementation includes hub engineering design, initial network configuration services, server configuration services, baseband hub installation, network management system familiarization, travel and per diem expenses.	Each	None	1 year	US
33411	Signal Mountain	1043008	Site survey and report. Includes assessment of the location for satellite system installation -both for the antenna reflector, the In-door-unit and the cabling, measurement of relevant areas, look angle and line-of-sight obstructions, temperatures, distances, and other data required to meet the technical specifications of the various technologies to be implemented.	Each	None	1 Year	US
33411	Signal Mountain	1012180	VTR-71 INPUT software expansion key for Victor matrix units. Each key enables an additional 1 input on an existing Victor distributive matrix, up to a maximum of 16 inputs. Minimum order Qty 4	Each	None	1 Year	US
33411	Signal Mountain	1012181	VTR-71 OUTPUT software expansion key for Victor matrix units. Each key enables an additional 1 input on an existing Victor distributive matrix, up to a maximum of 16 inputs. Minimum order Qty 4	Each	None	1 Year	US
33411	Signal Mountain	1012182	VTRC-71 INPUT software expansion key for Victor matrix units. Each key enables an additional 1 input on an existing Victor distributive matrix, up to a maximum of 16 inputs. Minimum order Qty 4	Each	None	1 Year	US
33411	Signal Mountain	1012183	VTRC-71 OUTPUT software expansion key for Victor matrix units. Each key enables an additional 1 input on an existing Victor distributive matrix, up to a maximum of 16 inputs. Minimum order Qty 4	Each	None	1 Year	US
33411	Signal Mountain	1012184	VTR-80 INPUT software expansion key for Victor matrix units. Each key enables an additional 1 input on an existing Victor distributive matrix, up to a maximum of 16 inputs. Minimum order Qty 4	Each	None	1 Year	US
33411	Signal Mountain	1012185	VTR-80 OUTPUT software expansion key for Victor matrix units. Each key enables an additional 1 input on an existing Victor distributive matrix, up to a maximum of 16 inputs. Minimum order Qty 4	Each	None	1 Year	US
33411	Signal Mountain	1012188	ETL Model HWK-10-D0808C0808 is a 1U 19" chassis housing a one 8 x 8 distributive matrix module and a combining 8x8 module . field serviceable (NOT hot-swap) . Each of these two matrix cards are individually user replaceable once the matrix module is removed. The unit operates over a frequency range of 850-2450 MHz, and benefits from local and remote control and monitoring, with capacitive touch screen HMI, Web Browser Interface & SNMP. The unit features dual redundant hot-swap power supplies and is supplied with 50Ω SMA RF connectors.	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1012144	KIT-VTX-10 The kit comprises: 1 of MMC matrix card, 1 of output combiner card, 1 of input splitter card, 1 of CPU card, 1 of power supply module and 1 of fan kit.	Each	None	1 Year	US
33411	Signal Mountain	1012139	VTR-80-xxxx-1616, 16x16 Victor IF / L-band Matrix Router. Software key expandable in single steps up to 16 inputs and 16 outputs. 1U x 550mm x 19" shelf with hot-swap fan panels, ±3 dB Variable gain and 0/13/18V selectable 22 kHz on/off LNB powering. Integrated dual redundant power supplies. This unit is locally controlled via front panel LCD display and push buttons; and remotely controlled via RS232 / RS485 serial port and RJ45 Ethernet port, and provides 0V/13V/18V LNB Powering.	Each	None	1 Year	US
33411	Signal Mountain	1012140	ETL Model VTRC-71-xxxx-1616 Victor Matrix is a combining (Fan IN) IF through L-band Matrix with a capacity of up to 16 inputs x 16 outputs in a compact 1U x 550mm x 19" chassis with hot-swap fan panels. The unit offers software enabled expansion, providing the option to start from a base unit with 4 inputs x 4 outputs and software key expanding in single steps up to 16 inputs x 16 outputs. It operates over the 50-2500 MHz frequency range, and benefits from local and remote control and monitoring with Web Browser Interface & SNMP. Dual redundant power supplies provide reliability in service and variable gain to balance input signals of the matrix. OPTIONAL ITEMS: This matrix can be purchased with LNB powering (additional cost) * The matrix can be expanded up to a total of 16 inputs and 16 outputs with the addition of software enabled expansion keys (additional cost)	Each	None	1 Year	US
33411	Signal Mountain	1012202	ETL model number NGM-101-xxxx-1616, 16 input x 16 output distributive high performance Enigma 100 series L-band Matrix (850-2150MHz). The matrix module is 6U high and features a front panel capacitive touchscreen for local control and monitoring. Remote control and monitoring is achieved via RS232, RS422/485 or RJ45 Ethernet port on the rear panel: a dry contact alarm port is also supplied on the rear panel for amplifier and power supply status. The NGM-101 ensures minimal impact from failure with hot-swappable single input and output RF cards, dual redundant power suppliers, CPU's and fans. OPTIONAL ADDITIONS: - The matrix can be expanded up to a total of 32 inputs and 32 outputs with the addition of input and output cards (additional cost)	Each	None	1 Year	US
33411	Signal Mountain	1012203	ETL model number NGMC-101-1616-xxxx, 16 input x 16 output combining high performance Enigma 100 series L-band Matrix (850-2150MHz). The matrix module is 6U high and features a front panel capacitive touchscreen for local control and monitoring. Remote control and monitoring is achieved via RS232, RS422/485 or RJ45 Ethernet port on the rear panel: a dry contact alarm port is also supplied on the rear panel for amplifier and power supply status. The NGM-101 ensures minimal impact from failure with hot-swappable single input and output RF cards, dual redundant power suppliers, CPU's and fans. OPTIONAL ADDITIONS: - The matrix can be expanded up to a total of 32 inputs and 32 outputs with the addition of input and output cards (additional cost)	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1012204	ETL model number NGM-101-3232-xxxx, 39 input x 64 output distributive high performance Enigma 100 series L-band Matrix (850-2150MHz). The matrix system consist of qty 3 matrices, the (qty 1) master matrix features a front panel capacitive touchscreen for local control and monitoring. Remote control and monitoring is achieved via RS232, RS422/485 or RJ45 Ethernet port on the rear panel: a dry contact alarm port is also supplied on the rear panel for amplifier and power supply status. The NGM-101 ensures minimal impact from failure with hot-swappable single input and output RF cards, dual redundant power suppliers, CPU's and fans. OPTIONAL ADDITIONS: - Multiple NGM-101 switches can be interconnected up to a 512 x 512 configuration.	Each	None	1 Year	US
33411	Signal Mountain	1012205	ETL model number NGMC-101-3232-xxxx, 32 input x 32 output combining high performance Enigma 100 series L-band Matrix (850-2150MHz). The matrix system consist of qty 3 matrices, the (qty 1) master matrix features a front panel capacitive touchscreen for local control and monitoring. Remote control and monitoring is achieved via RS232, RS422/485 or RJ45 Ethernet port on the rear panel: a dry contact alarm port is also supplied on the rear panel for amplifier and power supply status. The NGM-101 ensures minimal impact from failure with hot-swappable single input and output RF cards, dual redundant power suppliers, CPU's and fans. OPTIONAL ADDITIONS - Multiple NGMC-101 switches can be interconnected up to a 512 x 512 configuration.	Each	None	1 Year	US
33411	Signal Mountain	1012215	ETL Model number KIT-NGM-101 spares kit for Enigma matrix. The kit comprises: 1x output switch card, 1 x input splitter card, 1x CPU card and 1 x power supply module.	Each	None	1 Year	US
33411	Signal Mountain	1012216	ETL Model number KIT-NGMC-101 spares kit for Enigma matrix. The kit comprises: 1 off output combiner card, 1 off input switch card, 1 off CPU card and 1 off power supply module.	Each	None	1 Year	US
33411	Signal Mountain	1012220	ETL model HUR-10 64 input x 64 output Hurricane L-band distributive or fan-out matrix for operation over the frequency range 850-2450MHz. Hurricane offers configurable inputs and outputs and optional integrated LNB powering in an ultra-compact 4U high chassis. RF cards, dual redundant CPUs and PSUs are all hot swap, allowing in service expansion and repair. Hurricane offers input RF level monitoring and alarms, as well as on board monitoring and diagnostics of the matrix status. Local control and monitoring is done via a capacitive touch screen control panel. Remote control via Ethernet port, SNMP, web browser and serial port. Supplied with H-IO-01-xx passive input modules and H-IO-01-xx passive output modules. This Hurricane Matrix comes loaded with a full capacity of 64 inputs x 64 outputs, but the matrix can be ordered part-populated in input / output increments of 8 - such as 32x64 or 48x48 and expanded up to 64x64. If the matrix is ordered with less than this 64x64 fully loaded configuration, the cost will be less. If a quantity less than 64x64 is ordered, the matrix can be expanded later at additional cost. Larger systems can be made using multiple Hurricane modules with system splitters and / or combiners – such as 64x128 or 64x192 up to a maximum of 512x512 (additional cost)	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1012222	HAR-40-xxxx-128128 ETL model HAR-40 128 input x 128 output Harrier L-band distributive or fan-out matrix for operation over the frequency range 850-2450MHz. Harrier offers configurable inputs and outputs and optional integrated LNB powering in an ultra-compact 10U high chassis. RF cards, dual redundant CPUs and PSUs are all hot swap, allowing in service expansion and repair. Harrier offers input RF level monitoring and alarms, as well as on board monitoring and diagnostics of the matrix status. Local control and monitoring is done via a capacitive touch screen control panel. Remote control via Ethernet port, SNMP, web browser and serial port. Please see data sheet for full specifications. The matrix comprises: 1 x ETL Model HAR-40 Harrier chassis including 2 power supplies, 2 CPU modules, 16 MMC (mid-matrix) cards and touchscreen local control HMI, Quantity 16 x H-IMC-01 Input Matrix Cards, Quantity 16 x H-OMC-01 Output Matrix Cards, Quantity 64 x H-IO-01, passive input module, RF sensing, Quantity 64 x H-IO-01, passive output modules RF sensing S5 RF connectors	Each	None	1 Year	US
33411	Signal Mountain	1012225	KIT-HUR-10 & H-IO-01-xxxx Spares kit for Hurricane matrix fitted with H-IO-01-xxxx input modules.	Each	None	1 Year	US
33411	Signal Mountain	1012227	KIT-HUR-10 & H-IO-03-xxxx Spares kit for Hurricane matrix fitted with H-IO-03-xxxx input modules.	Each	None	1 Year	US
33411	Signal Mountain	1012240	Individual price per 1 x H-IN-02-xxxx input modules.	Each	None	1 Year	US
33411	Signal Mountain	1012241	Individual price per 1 x H-IN-04-xxxx input modules.	Each	None	1 Year	US
33411	Signal Mountain	1012242	Individual price per 1 x H-IN-05-xxxx input modules.	Each	None	1 Year	US
33411	Signal Mountain	1012250	ETL Model Number VCN-11-xxxx-128128, 128x128 Distributive Vulcan L-band Matrix Router. 16U 19" shelf. Dual redundant hot-swap CPU and power supplies. Single hot-swap matrix cards. This unit is locally controlled via touch screen and VGA display on the front panel; and remotely controlled via RS232/RS485 and RJ45 ethernet ports. The web browser allows for multiple user levels and restrictions to defined input and output cross points. This unit has SNMP traps for alarms & monitoring. 50 ohm BNC connectors.	Each	None	1 Year	US
33411	Signal Mountain	1012251	KIT-VCN-11 The kit comprises: 1 of input RF module (IMC), 1 of output RF module (OMC), 1 of mid matrix module (MMC), 1 of CPU module, 1 of power supply module, 1 of fan, 1 of set large fan filters and 1 of set small fan filters.	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1012256	HAR-40-xxxx-128128 ETL model HAR-40 128 input x 128 output Harrier L-band distributive or fan-out matrix for operation over the frequency range 850-2450MHz. Harrier offers configurable inputs and outputs and optional integrated LNB powering in an ultra-compact 10U high chassis. RF cards, dual redundant CPUs and PSUs are all hot swap, allowing in service expansion and repair. Harrier offers input RF level monitoring and alarms, as well as on board monitoring and diagnostics of the matrix status. Local control and monitoring is done via a capacitive touch screen control panel. Remote control via Ethernet port, SNMP, web browser and serial port. Please see data sheet for full specifications. The matrix comprises: 1 x ETL Model HAR-40 Harrier chassis including 2 power supplies, 2 CPU modules, 16 MMC (mid-matrix) cards and touchscreen local control HMI, Quantity 16 x H-IMC-01 Input Matrix Cards, Quantity 16 x H-OMC-01 Output Matrix Cards, Quantity 64 x H-IO-01, passive input module, RF sensing, variable gain and slope, Quantity 64 x H-IO-01, passive output modules RF sensing S5 RF connectors	Each	None	1 Year	US
33411	Signal Mountain	1012260	23225-xxxx, 8:1 LS series IF/Extended L-band Monitoring Switch with high isolation. 1U, 19" shelf. Dual redundant power supplies. This unit is locally controlled via keypad and an LCD on the front panel; and remotely controlled via rear panel serial (RS232/422/485) or Ethernet (RJ45) port with SNMP and web browser interface.	Each	None	1 Year	US
33411	Signal Mountain	1012261	23226-xxxx, 16:1 LS series IF/Extended L-band Monitoring Switch with high resolution. 1U, 19" shelf. Dual redundant power supplies. This unit is locally controlled via keypad and an LCD on the front panel; and remotely controlled via rear panel serial (RS232/422/485) or Ethernet (RJ45) port with SNMP and web browser interface.	Each	None	1 Year	US
33411	Signal Mountain	1012262	23227-xxxx, 32:1 LS series IF/Extended L-band Monitoring Switch with high isolation. 1U, 19" shelf. Dual redundant power supplies. This unit is locally controlled via keypad and an LCD on the front panel; and remotely controlled via rear panel serial (RS232/422/485) or Ethernet (RJ45) port with SNMP and web browser interface.	Each	None	1 Year	US
33411	Signal Mountain	1012310	C0401S1ULA-22418-OPT-R-xxxx, Single 4-way Dextra L-band Combiner. 1U 19" shelf. Dual redundant amplifiers and dual redundant power supplies. -20dB monitoring port on front panel. Remote control and monitoring via RJ45 Ethernet port with SNMP and Web browser interface. Front panel LEDs for PSU status monitoring.	Each	None	1 Year	US
33411	Signal Mountain	1012311	Dual 4-way Dextra compact L-band Combiner. 1U 19" shelf. Dual redundant amplifiers and dual redundant power supplies. -20dB monitoring port on front panel. Remote control and monitoring via RJ45 Ethernet port with SNMP and Web browser interface. Front panel LEDs for PSU status monitoring.	Each	None	1 Year	US
33411	Signal Mountain	1012314	Dual 8-way Dextra compact L-band Combiner. 1U 19" shelf. Dual redundant power supplies -20dB monitoring port on front panel. SNMP and Web browser interface. Front panel LEDs for PSU status monitoring.	Each	None	1 Year	US
33411	Signal Mountain	1012352	1310 +/- 10 nm optical transmitter to L-band (850-2450) 10km nominal range with RX-L1-104. Available in FC/APC & SC/APC optical connectors. With LNB powering	Each	None	1 Year	US
33412	Signal Mountain	1012160	Amplifier Card, Can be used with ALT-C200, ALT-C201, ALT-C202 chassis. 16 module 8-38 dB variable gain 0-8 dB slope compensation Local & remote control (Front panel display & Ethernet)	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33413	Signal Mountain	1012161	Amplifier Card, Can be used with ALT-C204. 16 module 0-20 dB variable gain 0-8 dB slope compensation Local & remote control(Front panel display & Ethernet)	Each	None	1 Year	US
33414	Signal Mountain	1012164	ALT-R-L1-006 Amplifier Card, 6 to 36dB variable gain and 0 to 8dB variable slope	Each	None	1 Year	US
33415	Signal Mountain	1012165	ALT-R-L1-012 Amplifier Card, Local & remote control(Front panel display & Ethernet. 10 to 40dB variable gain and 0 to 5dB variable slope	Each	None	1 Year	US
33411	Signal Mountain	1012271	Dual 4-way Dextra compact L-band Combiner. 1U 19" shelf. Dual redundant amplifiers and dual redundant power supplies. -20dB monitoring port on front panel. Remote control and monitoring via RJ45 Ethernet port with SNMP and Web browser interface. Front panel LEDs for PSU status monitoring.	Each	None	1 Year	US
33411	Signal Mountain	1012273	Dual 8-way Dextra compact L-band Combiner. 1U 19" shelf. Dual redundant power supplies -20dB monitoring port on front panel. SNMP and Web browser interface. Front panel LEDs for PSU status monitoring.	Each	None	1 Year	US
33411	Signal Mountain	1012316	D0104S1ULA-22410-OPT-R-xxxx, Single 4-way Dextra L-band Splitter. 1U 19" shelf. Dual redundant amplifiers and dual redundant power supplies. 0/13/18V LNB powering and 22KHz tone. LNB current monitoring. -20dB monitoring port on front panel. Remote control and monitoring via RJ45 Ethernet port with SNMP and Web browser interface. Front panel LEDs for LNB and PSU status monitoring.	Each	None	1 Year	US
33411	Signal Mountain	1012330	SCP-1U-11 ETL mounting chassis fitted with Qty 2 of SCP-4307-xxxx 10dB L-band (850-2150MHz) Scorpion series directional coupler. The thru port is DC & 10 MHz pass and the coupled port is DC & 10 MHz blocked. The max current rating is 5A. OPTIONAL ADDITIONS: A variety of splitters, combiner and coupler options are available (cost will vary). The chassis can hold a maximum of Qty 8 x 2-way splitter/ combiners or a maximum quantity of 4 x 4-way or 8-way splitters / combiners.	Each	None	1 Year	US
33411	Signal Mountain	1012115	SCP-1U-11 ETL mounting chassis fitted with Qty 2 of SCP-2502-xxxx 2-way L-band (850-2150MHz) passive splitter / combiners with DC and 10MHz pass on all ports. OPTIONAL ADDITIONS: A variety of splitters, combiner and coupler options are available (cost will vary). The chassis can hold a maximum of Qty 8 x 2-way splitter/ combiners or a maximum quantity of 4 x 4-way or 8-way splitters / combiners.	Each	None	1 Year	US
33411	Signal Mountain	1012280	ALT-C-320-1U, capacity 1=1 (2 modules), auto switch before and after amplifiers	Each	None	1 Year	US
33411	Signal Mountain	1012281	ALT-C319-1U 1+1 or dual channel (2 modules). 2x2 transfer switch before & after amplifiers with monitoring	Each	None	1 Year	US
33411	Signal Mountain	1012282	ALT-C310-1U Dual, 1:1 switched i/p , single switched o/p	Each	None	1 Year	US
33411	Signal Mountain	1012149	SRY-C100-1U - StingRay 16 module, 1U chassis. Includes Front Mounted Hot Swap PSUs, local and remote control/monitoring. Single IEC.	Each	None	1 Year	US
33411	Signal Mountain	1012350	SRY-C101-1U - StingRay 12 module, 1U chassis. Includes Front Mounted. Dual redundant Hot Swap PSUs, local and remote control/monitoring. Dual IEC.	Each	None	1 Year	US
33411	Signal Mountain	1012351	SRY-C103-1U - StingRay 12 module, 1U chassis. Includes Front Mounted. Dual redundant NOT Hot Swap PSUs, local and remote control/monitoring. Dual IEC.	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1012354	1310 +/- 10 nm optical transmitter to L-band (850-2450) 10km nominal range with RX-L1-104. Available in FC/APC & SC/APC optical connectors. With LNB powering	Each	None	1 Year	US
33411	Signal Mountain	1012355	SRY-TX-B2-105-xxx - 1310 +/- 10 nm optical transmitter to Broadband (50-2450) 10km nominal range with RX-B2-106. Available in FC/APC & SC/APC optical connectors. With LNB powering	Each	None	1 Year	US
33411	Signal Mountain	1012356	SRY-RX-B2-106-xxx - 1100 to 1650 nm optical receiver to Broadband (50-2450) 10km nominal range with TX-B2-105. Available in FC/APC & SC/APC optical connectors	Each	None	1 Year	US
33411	Signal Mountain	1012357	10 MHz reference optical transmitter, 1310nm, DFB laser 10km nominal range. Available in FC/APC & SC/APC optical connectors.	Each	None	1 Year	US
33411	Signal Mountain	1012358	10 MHz reference optical receiver 1100 to 1650 nm, 10km nominal range. Available in FC/APC & SC/APC optical connectors.	Each	None	1 Year	US
33411	Signal Mountain	1013370	ETL model SRY-TxxL1-141-xxxx RF over Fibre Transmit module converting L-band (850-2450MHz) to CWDM Optical. Switchable LNB power dependent on chassis. 50 km nominal range over a single mode fibre. RF Connectors are BNC/F-type 75 ohm BNC/SMA 50 ohm and Fibre connectors are FC/APC SC/APC.	Each	None	1 Year	US
33411	Signal Mountain	1013371	ETL model SRY-RX-L1-142-xxxx RF over Fibre High Gain Receive module converting 1100-1650nm Optical to L-band (850-2450MHz). 50 km nominal range over a single mode fibre. RF Connectors are BNC/F-type 75 ohm BNC/SMA 50 ohm and Fibre connectors are FC/APC SC/APC.	Each	None	1 Year	US
33411	Signal Mountain	1013372	SRY-Txx-B2-143-xxxx Single Broad Band TX CWDM Module.	Each	None	1 Year	US
33411	Signal Mountain	1013373	ETL model SRY-RX-B2-144-xxxx RF over Fibre High Gain Receive module converting 1100-1650nm Optical to Broadband (50-2450MHz). 10 km nominal range over a single mode fibre. RF Connectors are BNC/F-type 75 ohm BNC/SMA 50 ohm and Fibre connectors are FC/APC SC/APC.	Each	None	1 Year	US
33411	Signal Mountain	1013374	ETL Model SRY-OCM-08-545-47-xx RF over Fibre 8 channel CWDM red band (1470 -1610 nm) mux/demux module, occupies 5 slots in SRY-C1xx range of chassis, Fibre connectors are FC/APC SC/APC.	Each	None	1 Year	US
33411	Signal Mountain	1012360	SRY-C200-1U (StingRay Fiber Module - 200 series) Up to 4 -, Dual redundant hot swap power supplies	Each	None	1 Year	US
33411	Signal Mountain	1012361	SRY-C201-2U (StingRay Fiber Module - 200 series) Up to 16	Each	None	1 Year	US
33411	Signal Mountain	1012362	SRY-C205-2U (StingRay Fiber Module - 200 series) Up to 16 -10 MHz injection chassis, 16 module, 2U High, Dual hot swap PSU with switchable LNB power.	Each	None	1 Year	US
33411	Signal Mountain	1012365	SRY-ODU201 (outdoor unit) (StingRay Fiber Module - 200 series) Up to 10 -, Weatherproof (IP65) housing for up to 10 off 200 series modules, dual hot swap PSU, switchable LNB powering, local & remote control, hot swap CPU, internal fibre and RF patch panels. -20 to +45/55 C dependent on load.	Each	None	1 Year	US
33411	Signal Mountain	1012370	SRY-TX-L1-201-xxxxxx L-band (850-2450) to 1310nm optical transmitter, DFB laser with two stage optical isolator, 10km nominal range, with 22KHz and 13V/18V switchable LNB power at 500 mA, and with 20dB coupled input RF monitoring port. Available in FC/APC & SC/APC optical connectors.	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1012371	SRY-RX-L1-202-xxxxxx 1100 to 1650 nm optical receiver to L-band (850 to 2450MHz), 10km nominal range with 20dB coupled output RF monitoring port. Available in FC/APC & SC/APC optical connectors.	Each	None	1 Year	US
33411	Signal Mountain	1012372	SRY-TX-L1-205-xxxxxx Twin L-band (850-2450) to 1310nm optical transmitter, DFB laser with two stage optical isolator, 10km nominal range, with 22KHz and 13V/18V switchable LNB power up to 500 mA per channel. Available in FC/APC & SC/APC optical connectors.	Each	None	1 Year	US
33411	Signal Mountain	1012373	SRY-RX-L1-206-xxxxxx Twin 1100 to 1650 nm optical receiver to L-band (850 to 2450MHz), 10km nominal range. Available in FC/APC & SC/APC optical connectors.	Each	None	1 Year	US
33411	Signal Mountain	1012374	SRY-TX-B2-207-xxxxxx Twin broadband (50-2450) to 1310nm optical transmitter, DFB laser with two stage optical isolator, 10km nominal range, with 22KHz and 13V/18V switchable LNB power up to 500 mA per chanel. Available in FC/APC & SC/APC optical connectors.	Each	None	1 Year	US
33411	Signal Mountain	1012375	SRY-RX-B2-208-xxxxxx Twin 1100 to 1650 nm optical receiver to broadband (50 to 2450MHz), 10km nominal range. Available in FC/APC & SC/APC optical connectors.	Each	None	1 Year	US
33411	Signal Mountain	1012376	ETL model SRY-TX-Y-281-xxxxxx RF over Fibre Transmit module converting 10MHz to 1310nm Optical. 10 km nominal range over single mode fibre. -20dB monitor port to provide monitoring of all channels.	Each	None	1 Year	US
33411	Signal Mountain	1012377	ETL Model SRY-RX-Y-282-xxxxxx, RF over Fibre Receive module converting 1100-1650nm Optical to 10MHz. 10 km nominal range over single mode fibre. -20dB monitor port to provide monitoring of all channels.	Each	None	1 Year	US
33411	Signal Mountain	1012378	SRY-DIV-L1-213-xxxxxx L-band, 850 to 2450MHz hot swap active splitter, with unity gain and DC pass between the output and common ports. The module occupies one slot in a 200 series StingRay chassis. Supplied with two link cables.	Each	None	1 Year	US
33411	Signal Mountain	1012379	SRY-SW-L1-214-xxxxxx L-band, 850 to 2450MHz hot swap, redundancy switch operating over -10 to -30dBm mean power. The module incorporates RF detection at each of its input ports and switches over if the level is outside the predefined range. It occupies one slot in a in 200 series StingRay chassis. Supplied with two link cables.	Each	None	1 Year	US
33411	Signal Mountain	1012380	SRY-SW-L1-220-xxxxxx 10MHz reference hot swap, redundancy switch operating over -10 to +10dBm mean power. The module incorporates RF detection at each of its input ports and switches over if the level is outside the predefined range. It occupies one slot in a 200 series StingRay chassis.	Each	None	1 Year	US
33411	Signal Mountain	1012381	ETL model SRY-TxxL1-241-xxxxxx RF over Fibre Transmit module converting L-band (850-2450MHz) to CWDM Optical. 50 km nominal range over a single mode fibre. -20dB monitor port to provide monitoring of all channels. 13/18V LNB powering and 22 kHz tone. RF Connectors are BNC/F-type 75 ohm BNC/SMA 50 ohm and Fibre connectors are FC/APC SC/APC.	Each	None	1 Year	US
33411	Signal Mountain	1012382	ETL model SRY-RX-L1-242-xxxxxx RF over Fibre High Gain Receive module converting 1100-1650nm Optical to L-band band (850-2450MHz). 50 km nominal range over a single mode fibre. -20dB monitor ports to provide monitoring of all channels. . RF Connectors are BNC/F-type 75 ohm BNC/SMA 50 ohm and Fibre connectors are FC/APC SC/APC 200 Series CWDM MUX / DEMUX Module	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1012383	SRY-TxxY-249-xxxxxx Single 10MHz TX Module	Each	None	1 Year	US
33411	Signal Mountain	1012384	SRY-RX-Y-250-xxxxxx Single 10MHz RX Module	Each	None	1 Year	US
33411	Signal Mountain	1012385	SRY-OCM-08-645-47-FA 200 Series CWDM MUX / DEMUX Module	Each	None	1 Year	US
33411	Signal Mountain	1012386	ETL model SRY-TR-DA-261M, bi-directional Ethernet / serial unmanaged switch. The module is double width occupying 2 off 200 series StingRay chassis slots. Communications ports are four RJ-45 Ethernet 10/100/1000 connections, and a single DE-9 female connector providing one user selectable RS-232/422/serial link. Requires one (up to two) Gigabit Ethernet 1000BASE SFP modules to enable Ethernet over Fibre.	Each	None	1 Year	US
33411	Signal Mountain	1012387	SRY-SFP-Cxx-102 SFP Module for CWDM	Each	None	1 Year	US
33411	Signal Mountain	1012388	SRY-FPC-xxxx-1M 1 Meter fiber to fiber patch cable.	Each	None	1 Year	US
33411	Signal Mountain	1012390	ETL model SRY-TR-L1-931-xxxx. L-band to optical fibre converter mounted in a weatherproof (IP65) outdoor enclosure. The unit includes one L-band fibre receive (O/E) converter for uplink; one L-band fibre transmit (E/O) converter for downlink; and one 10 MHz receive (O/E) converter. The 10 MHz is multiplexed onto the RF signals to the BUC / from the LNB. 10 MHz RF level and on/off control. 0/13/18 VDC +/- 22 KHz DC power is provided for the LNB and 24V 2A for BUC powering. The unit features M&C via an RJ45 port and remote Ethernet over fibre via a Neutrik Opticon Quad connector. Power supplies are dual redundant (not hot-swap). The unit is powered from a 24VDC input supply via a LEMO connector. Interfaces via weatherproof F-type/ N-type RF connectors (x2); RJ45 connector; Neutrik Opticon Quad optical connectors. This unit is designed to be used with the VSAT indoor enclosure, model number: SRY-TR-L1-932-xxxx	Each	None	1 Year	US
33411	Signal Mountain	1012391	ETL model SRY-TR-L1-932-xxxx. L-band to optical fibre converter 1U 19" enclosure The unit includes one L-band fibre transmit (E/O) converter for uplink; one L-band fibre receive (O/E) converter for downlink; and one 10 MHz transmit (E/O) converter. The 10 MHz must be provided on the L-band uplink feed and is de-multiplexed to the fibre converter. The unit features M&C via an RJ45 port and remote Ethernet over fibre via a Neutrik Opticon Quad connector. Power supplies are dual redundant (not hot-swap). The unit is powered by 85-264 VAC 50/60Hz via a single IEC connector. Rear panel mounted RF connectors – N-type / SMA / F-type (x2); RJ45 connector; Neutrik Opticon Quad optical connector. This unit is designed to be used with the VSAT outdoor enclosure, model number: SRY-TR-L1-931-xxxx.	Each	None	1 Year	US
33411	Signal Mountain	1012395	SRY-PS-24-941-1K Single weatherproof 24V, hot swap redundant power unit. LEMO 1K connectors for StingRay small outdoors units. AC side is stripped 3 pin wire. For use with SRY ODU VSAT modules.	Each	None	1 Year	US
33411	Signal Mountain	1012400	ETL Model PRN-10 Piranha Series 1U chassis with variable voltage. Holding up to 16 Piranha Series power inserter modules. Front mounted dual redundant hot-swap power supplies, with dual IEC on rear. Local control via front panel LCD and keypad. Remote control & monitoring via an Ethernet port and dry contact alarm port.	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1012401	ETL Model PRN-15 Piranha Series 1U chassis with variable voltage and 10MHz distribution. Holding up to 16 Piranha Series power inserter modules. Front mounted dual redundant hot-swap power supplies, with dual IEC on rear. Local control via front panel LCD and keypad. Remote control & monitoring via an Ethernet port and dry contact alarm port.	Each	None	1 Year	US
33411	Signal Mountain	1012403	ETL Model HP2XX Piranha Series Hotswap Power Supply Module for PRN-XX Piranha Series modular power chassis providing up to a maximum of 200W nominal. Smart monitoring of PSU load reported locally via HMI and remotely via Ethernet.	Each	None	1 Year	US
33411	Signal Mountain	1012405	ETL Model PRN-L107-xxxx Piranha Series Smart LNB DC inserter module. Extended L-band (850-2450 MHz) with 13/18Vdc selectable & 22kHz tone on/off with local & remote control provided by the PRN-XX Piranha Series modular power chassis and monitoring of LNB current and RF input power.	Each	None	1 Year	US
33411	Signal Mountain	1012406	ETL Model PRN-L108-xxxx Piranha Series Smart LNB DC inserter Extended L-band (850-2450 MHz) with 13/18Vdc selectable & 22kHz tone on/off. 10MHz pass between port 1 and port 2. Local & remote control provided by the PRN-XX Piranha Series modular power chassis and monitoring of LNB current and RF input power	Each	None	1 Year	US
33411	Signal Mountain	1012407	ETL Model PRN-L106-xxxx Piranha Series Smart LNB DC inserter module. Extended L-band (850-2450 MHz) with 13/18Vdc selectable & 22kHz tone on/off with local & remote control provided by the PRN-XX Piranha Series modular power chassis and monitoring of LNB current and RF input power. With 10MHz inject from internal or external source.	Each	None	1 Year	US
33411	Signal Mountain	1012408	PRN-B148-xxxx ETL Model Smart BUC DC inserter module. Extended L-band (850-2450 MHz). BUC supply fixed at 48VDC and supports a maximum current consumption of 2.0A. 10MHz inject onto port 1 from internal source in PRN-15 chassis or external source.	Each	None	1 Year	US
33411	Signal Mountain	1012450	ETL model GRF-C900-1U, Griffin series redundancy switch chassis. 1U 19" shelf with dual redundant PSUs holding up to 2 GRF switch modules. Manual, automatic & remote operational modes. Modules can be switched independently (individual mode) Switching may be triggered by front panel, RF level detection will switch from main to standby on detection of a fault on the main. Switch back to main path is configurable	Each	None	1 Year	US
33411	Signal Mountain	1012451	ETL model GRF-087-xxxx Griffin series 2x1 ASI redundancy switch module. Operating over ASI the module benefits from failsafe relay switch and amplifier by pass, and 1:3 distribution amplifier on the output. Automatic switch over is based on signal level status. Supplied 75ohm BNC connectors.	Each	None	1 Year	US
33411	Signal Mountain	1012452	ETL model GRF-050-xxxx Griffin series 2x1 RF redundancy switch module. Operating over DC-2500MHz the module features a latching relay switch with switch over based on manual switching. DC & 10MHz pass on all ports. Supplied with either 50ohm BNC, SMA or N-Type connectors, or 75ohm BNC or F-Type connectors.	Each	None	1 Year	US
33411	Signal Mountain	1012453	ETL model GRF-010-xxxx Griffin series 2x1 RF redundancy Operating over 850-2150MHz (L-band) the module features a latching relay switch with automatic switch over based on RF level detection. DC & 10MHz pass on all ports. Supplied with either 50ohm BNC, SMA or N-Type connectors, or 75ohm BNC or F-Type connectors.	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1014001	SYS-FCN-CHA Genus Chassis ETL Model is a 1U 19" chassis with up to 17 slots on the rear for interchangeable hot swap modules (number of available module slots is dependent on module type fitted). Includes; INT/EXT 10MHz and fan.	Each	None	1 Year	US
33411	Signal Mountain	1014002	ETL Model FN-D-K1L1-24100-xxxx. 1U hot-swap frequency block downconverter module with variable gain and slope, which occupies 3 slots of the GNS-101-1U chassis. Supplied with 50Ω SMA input connector & 50Ω SMA or BNC output connectors. Input Frequency: Mode 1 is 10.7 to 11.7 GHz, Mode 2 is 11.7 to 12.75 GHz, Output Frequency: Mode 1 is 950 to 1950 MHz, Mode 2 is 950 to 2000 MHz, Conversion Gain: Max. 35 ± 1.5 dB / Min. 5 ± 1.5 dB, Output P1dB at max. gain: Typ. +17 dBm / Min. +15 dBm, Non Carrier Related Spurious in-band: <-75 dBm	Each	None	1 Year	US
33411	Signal Mountain	1014003	ETL Model FN-D-K4L1-24101-xxxx. 1U hot-swap frequency block downconverter module with variable gain and slope, which occupies 3 slots of the GNS-101-1U chassis. Supplied with 50Ω K-type input connector & 50Ω SMA or BNC output connectors. Input Frequency: Mode 1 is 29.25 – 30.25 GHz, Mode 2 is 30.0 – 31.0 GHz, Output Frequency: Mode 1 is 950 to 1950 MHz, Conversion Gain: max. gain setting 35 ± 1.5 dB ,Output P1dB: +15 dBm, Non Carrier Related Spurious in-band: <-75 dBm	Each	None	1 Year	US
33411	Signal Mountain	1014004	ETL Model FN-U-K4L1-24103-xxxx. 1U hot-swap frequency block upconverter module with variable attenuation and slope, which occupies 3 slots of the GNS-101-1U chassis. Supplied with 50Ω K-type output connector & 50Ω SMA or BNC input connectors. Input Frequency: 950 to 1950 MHz ,Output Frequency: Mode 1: 27.0—28.00 GHz, Mode 2: 27.5—28.5 GHz, Mode 3: 28.50—29.50 GHz, Mode 4: 29.0—30.0 GHz, Mode 5: 30.0—31.0 GHz, Conversion Gain: Max Gain Setting 35 ± 1.5 dB, Output P1dB: +10 dBm, Non Carrier Related Spurious in-band: <-75 dBm	Each	None	1 Year	US
33411	Signal Mountain	1014005	ETL Model FN-D-L1F2-24104-xxxx. 1U hot-swap agile frequency downconverter module with variable gain, which occupies 3 slots of the GNS-101-1U chassis. Supplied with 50Ω SMA/BNC input connectors & 50Ω SMA/BNC/ 75Ω BNC output connectors. Input Frequency: 850 to 2150 MHz, in 1 kHz steps Output Frequency: 70 ± 20 MHz, Conversion Gain: Max. 35 ± 2 dB / Min. 5 ± 2 dB, Output P1dB at max. gain: Typ. +13 dBm / Min. +10 dBm, Carrier Related Spurious in-band: <-60 dBc	Each	None	1 Year	US
33411	Signal Mountain	1014006	ETL Model FN-U-L1F2-24105-xxxx. 1U hot-swap agile frequency upconverter module with variable gain, which occupies 3 slots of the GNS-101-1U chassis. Supplied with 50Ω SMA/BNC output connectors & 50Ω SMA/BNC/ 75Ω BNC input connectors. Input Frequency: 70 ± 20 MHz, Output Frequency: 850 to 2150 MHz, in 1 kHz steps, Conversion Gain: Max. 35 ± 2 dB / Min. -5 ± 2 dB, Output P1dB at max. gain: Typ. +13 dBm / Min. +10 dBm, Carrier Related Spurious in-band: <-60 dBc	Each	None	1 Year	US
33411	Signal Mountain	1014007	ETL Model FN-U-C2F2-24106-xxxx. This is a 1U hot-swap agile frequency upconverter module with variable gain, which occupies 3 slots of the GNS-101-1U chassis. Supplied with 50Ω SMA output connector & 50Ω SMA or BNC input connectors. Input Frequency: 70 ± 20 MHz ,Output Frequency: 5725 to 6725 MHz, in 1 kHz steps, Conversion Gain: Max. 35 ± 2 dB / Min. 10 ± 2 dB, Output P1dB at max. gain: Typ. +10 dBm / Min. +8 dBm, Carrier Related Spurious in-band: <-60 dBc	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1014008	ETL Model FN-U-K1L1-24107-S5S5. This is a 1U hot-swap frequency block upconverter module with variable gain and slope, which occupies 3 slots of the GNS-101-1U chassis. Supplied with 50Ω SMA output connector & 50Ω SMA or BNC input connectors. Input Frequency: 950 to 1950 MHz, Output Frequency: Mode 1 is: 12.75 – 13.75 MHz or Mode 2 is: 13.5 to 14.5 MHz, Conversion Gain: Max. 35 ± 1.5 dB / Min. 5 ± 1.5 dB, Output P1dB at max. gain: Typ. +12 dBm / Min. +10 dBm Carrier Related Spurious in-band: <-60 dBc	Each	None	1 Year	US
33411	Signal Mountain	1014009	ETL Model FN-D-K1L1-24110-S5S5. This is a 1U hot-swap agile frequency downconverter module with variable gain and slope, which occupies 3 slots of the GNS-101-1U chassis. Supplied with 50Ω SMA input connector & 50Ω SMA or BNC output connectors. Input Frequency: 10.7 – 12.75 GHz, Output Frequency: 950 – 1950 MHz, Conversion Gain: Max. 35 ± 1.5 dB / Min. 5 ± 1.5 dB, Output P1dB at max. gain: Typ. +17 dBm / Min. +15 dBm, Non Carrier Related Spurious in-band: <-75 dBm	Each	None	1 Year	US
33411	Signal Mountain	1014010	ETL Model FN-D-C1L1-24126-S5S5. This is a 1U hot-swap frequency block downconverter module with variable gain, which occupies 3 slots of the GNS-101-1U chassis. Supplied with 50Ω SMA input connector & 50Ω SMA or BNC output connectors. Input Frequency: Mode 1 is 3.4 to 4.4 GHz, Mode 2 is 3.6 to 4.6 GHz, and Mode 3 is 3.8 GHz to 4.8 GHz, Output Frequency: 950 to 1950 MHz, Conversion Gain: Max. 35 ± 2 dB / Min. 5 ± 2 dB, Output P1dB at max gain: Typ. +15 dBm / Min. +13 dBm, Non Carrier Related Spurious in-band: <-75 dBm	Each	None	1 Year	US
33411	Signal Mountain	1014030	BUCK1-107-7208-xx L to Ku-band (10.7-11.7 GHz) Non inverting Block up converter with high stability frequency conversion with PLL local oscillator set at 9750 MHz This unit is externally powered via single 12V DC input and fitted with 50 ohm SMA RF connectors	Each	None	1 Year	US
33411	Signal Mountain	1014031	BUCK1-117-7209-xx L to Ku-band (11.7-12.75GHz) Non inverting Block up converter with high stability frequency conversion with PLL local oscillator set at 10750 MHz This unit is externally powered via single 12V DC input and fitted with 50 ohm SMA RF connectors.	Each	None	1 Year	US
33411	Signal Mountain	1014032	BUCX5-860-7212-xx S to X-band (8.6-9.4 GHz) Non inverting Block up converter with high stability frequency conversion with PLL local oscillator set at 6630 MHz. This unit is externally powered via single 12V DC input and fitted with 50 ohm SMA RF connectors.	Each	None	1 Year	US
33411	Signal Mountain	1014033	BUC-722001-xx L-band (950-2050 MHz), Ku-band (10.95-12.05 GHz) to Non-inverting Block upconverter with PLL Local Oscillator set at 10.00 GHz. This unit is externally powered with +20 to +28 VDC via an SMA RF connectors and all other connectors are also 50-ohm SMA RF connectors. This unit has an internal 10 MHz reference with auto switch to external source when present	Each	None	1 Year	US
33411	Signal Mountain	1014034	ETL Model FN-D-L1F2-24104-xxxx. 1U hot-swap agile frequency downconverter module with variable gain, which occupies 3 slots of the GNS-101-1U chassis. Supplied with 50Ω SMA/BNC input connectors & 50Ω SMA/BNC/ 75Ω BNC output connectors. Input Frequency: 850 to 2150 MHz, in 1 kHz steps Output Frequency: 70 ± 20 MHz, Conversion Gain: Max. 35 ± 2 dB / Min. 5 ± 2 dB, Output P1dB at max. gain: Typ. +13 dBm / Min. +10 dBm, Carrier Related Spurious in-band: <-60 dBc	Each	None	1 Year	US
33411	Signal Mountain	1014040	WGB-0300-197105 WG14 / WR137 / R70 C-band (5.85-8.2 GHz) flex twist waveguide with CPRG137 & CPRF137 flanges. Insertion loss 0.084 dB max, Return loss 30.2 dB min. Length 300mm	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1014041	WGB-1500-197089 WG14 / WR137 / R70 C-band (5.85-8.2 GHz) flex twist waveguide with CPRG and CPRF tin plated brass flanges. 1.5m in length. Fixing kit included.	Each	None	1 Year	US
33411	Signal Mountain	1014042	WGB-0600-197095 WG14 / WR137 / R70 C-band (5.85-8.2 GHz) waveguide straight with CPRG70 and CPRF70 flanges. 600mm long.	Each	None	1 Year	US
33411	Signal Mountain	1014043	WGB-2000-197095 WG14 / WR137 / R70 C-band (5.85-8.2 GHz) waveguide straight with CPRG70 and CPRF70 flanges. 2000mm long.	Each	None	1 Year	US
33411	Signal Mountain	1014044	WGB-1200-197095 WG14 / WR137 / R70 C-band (5.85-8.2 GHz) waveguide straight with PDR70 and UDR70 flanges. 1200mm long.	Each	None	1 Year	US
33411	Signal Mountain	1014045	WGBCX-1808 WG14 / WR137 / R70 C-band (5.85-8.2 GHz) waveguide H plane 90 degree bend with CPR137G & CPR137F flanges.	Each	None	1 Year	US
33411	Signal Mountain	1014046	WGBCX-1809 WG14 / WR137 / R70 C-band (5.85-8.2 GHz) waveguide straight with CPRG70 and CPRF70 flanges. 600mm long.	Each	None	1 Year	US
33411	Signal Mountain	1014047	WGAPT-1843 WG14 / WR137 / R70 C-band (5.85-8.2GHz) waveguide to coaxial adapter. CPR137G to 50ohm N-type.	Each	None	1 Year	US
33411	Signal Mountain	1014048	WGAPT-1843 WG14 / WR137 / R70 C-band (5.85-8.2GHz) waveguide to coaxial adapter. CPR137G to 50ohm N-type.	Each	None	1 Year	US
33411	Signal Mountain	1014049	WGAPT-1843-A WG14 / WR137 / R70 C-band (5.85-8.2GHz) aluminum waveguide to coaxial adapter. CPR137F to 50ohm N-type.	Each	None	1 Year	US
33411	Signal Mountain	1014050	WGLCX-1840 WG14 / WR137 / R70 C-band waveguide termination, medium power load. VSWR 1.2:1 & power 15W. CPR137G flange.	Each	None	1 Year	US
33411	Signal Mountain	1014051	WGLCX-1837 WG14 / WR137 / R70 C-band (5.85-8.2 GHz) waveguide termination, high power load. 400W power with CPR137 flat flange.	Each	None	1 Year	US
33411	Signal Mountain	1014052	WGC-197028-30 WG14 / WR137 / R70 C-band (5.85-8.2 GHz) 30 dB cross guide coupler with 20 dB typical directivity. Fitted with N-type 50 ohm on coupled output port & waveguide flanges are CPR137 one flat one grooved.	Each	None	1 Year	US
33411	Signal Mountain	1014053	WGC-197084-50 WG14 / WR137 / R70 C-band (5.85-8.2 GHz) Cross Guide coupler with 50 dB coupling and 30dB typical directivity. Fitted with N-Type 50 ohm on coupled output port with CPRF and CPRG Flanges.	Each	None	1 Year	US
33411	Signal Mountain	1014054	WGCCX-1810 WG14 / WR137 / R70 C-band (5.85-8.2 GHz) 40 dB cross guide coupler with 20 dB typical directivity. Fitted with N-type 50 ohm on coupled output port & waveguide flanges are CPR137 grooved.	Each	None	1 Year	US
33411	Signal Mountain	1014100	WGB-1000-197111 WG17 / WR75 / R120 Ku-band (10-15GHz) flex twist waveguide with UBR120 and PBR120 flanges. 1000mm in length.	Each	None	1 Year	US
33411	Signal Mountain	1014101	WGB-1500-197111 WG17 / WR75 / R120 Ku-band (10-15GHz) flex twist waveguide with UBR120 and PBR120 flanges. 1500mm in length.	Each	None	1 Year	US
33411	Signal Mountain	1014102	WGB-0300-197111 WG17 / WR75 / R120 Ku-band (10-15GHz) flex twist waveguide with UG Flat and UG Groove /Seal flanges. 300mm in length.	Each	None	1 Year	US
33411	Signal Mountain	1014103	WGB-0300-197111 WG17 / WR75 / R120 Ku-band (10-15GHz) flex twist waveguide with PBR120 & UBR120. 300mm in length.	Each	None	1 Year	US
33411	Signal Mountain	1014104	WGB-0600-197111 WG17 / WR75 / R120 Ku-band (10-15GHz) flex twist waveguide with UG Flat and UG Groove /Seal flanges. 600mm in length.	Each	None	1 Year	US

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33411	Signal Mountain	1014105	WGB-0600-197111 WG17 / WR75 / R120 Ku-band (10-15GHz) flex twist waveguide with PBR120 & UBR120 flanges. 600mm in length.	Each	None	1 Year	US
33411	Signal Mountain	1014106	WGB-0900-197111 WG17 / WR75 / R120 Ku-band (10-15GHz) flex twist waveguide with UG Flat and UG Groove /Seal flanges. 900mm in length.	Each	None	1 Year	US
33411	Signal Mountain	1014107	WGB-0900-197111 WG17 / WR75 / R120 Ku-band (10-15GHz) flex twist waveguide with PBR120 & UBR120 flanges. 900mm in length.	Each	None	1 Year	US
33411	Signal Mountain	1014108	WGB-1200-197111 WG17 / WR75 / R120 Ku-band (10-15GHz) flex twist waveguide with UG Flat and UG Groove /Seal flanges. 1200mm in length.	Each	None	1 Year	US
33411	Signal Mountain	1014109	WGB-1800-197111 WG17 / WR75 / R120 Ku-band (10-15GHz) flex twist waveguide with UG Flat and UG Groove /Seal flanges. 1800mm in length.	Each	None	1 Year	US
33411	Signal Mountain	1014110	WGSK2-197075-E WG17 / WR75 / R120 Ku-band (10-15 GHz) Swept 90 degree E bend Fitted with UG Cover/Flat & UG Seal/Groove flanges. Leg Lengths 76.2 mm x 76.2 mm.	Each	None	1 Year	US
33411	Signal Mountain	1014111	WGMK2-197075-E WG17 / WR75 / R120 Ku-band (10-15 GHz) Mitered 90 degree E bend Fitted with UG Cover/Flat & UG Seal/Groove flanges. Leg Lengths 76.2 mm x 76.2 mm.	Each	None	1 Year	US
33411	Signal Mountain	1014112	WGSK2-197075-H WG17 / WR75 / R120 Ku-band (10-15 GHz) Swept 90 degree H bend Fitted with UG Cover/Flat & UG Seal/Groove flanges. Leg Lengths 76.2 mm x 76.2 mm.	Each	None	1 Year	US
33411	Signal Mountain	1014113	WGMK2-197075-H WG17 / WR75 / R120 Ku-band (10-15 GHz) Mitered 90 degree H bend Fitted with UG Cover/Flat & UG Seal/Groove flanges. Leg Lengths 76.2 mm x 76.2 mm.	Each	None	1 Year	US
33411	Signal Mountain	1014114	WGB-0203-197074 WG17 / WR75 / R120 Ku-band (10-15 GHz) Waveguide Rigid Straight. 203mm Length fitted with UG Cover/Flat & UG Seal/Groove Flanges.	Each	None	1 Year	US
33411	Signal Mountain	1014115	WGB-0600-197074 WG17 / WR75 / R120 Ku-band (10-15 GHz) waveguide straight with UG Seal/Groove & UG Cover/Flat flanges. 600mm long.	Each	None	1 Year	US
33411	Signal Mountain	1014116	WGB-0774-197074 WG14 / WR137 / R70 C-band (5.85-8.2 GHz) waveguide termination, high power load. 400W power with CPR137 flat flange.	Each	None	1 Year	US
33411	Signal Mountain	1014117	WGB-0736-197074 WG17 / WR75 / R120 Ku-band (10-15 GHz) Waveguide Rigid Straight. 736mm Length fitted with UG Cover/Flat & UG Seal/Groove Flanges.	Each	None	1 Year	US
33411	Signal Mountain	1014118	WGB-0732-197074 WG17 / WR75 / R120 Ku-band (10-15 GHz) Waveguide Rigid Straight. 762mm Length fitted with UG Cover/Flat & UG Seal/Groove Flanges.	Each	None	1 Year	US
33411	Signal Mountain	1014119	WGB-0558-197074 WG17 / WR75 / R120 Ku-band (10-15 GHz) Waveguide Rigid Straight. 558mm Length fitted with UG Cover/Flat & UG Seal/Groove Flanges.	Each	None	1 Year	US
33411	Signal Mountain	1014120	WGB-0609-197074 WG17 / WR75 / R120 Ku-band (10-15 GHz) Waveguide Rigid Straight. 609mm Length fitted with UG Cover/Flat & UG Seal/Groove Flanges.	Each	None	1 Year	US
33411	Signal Mountain	1014121	WGB-2000-197074 WG17 / WR75 / R120 Ku-band (10-15 GHz) waveguide straight with UG Seal/Groove & UG Cover/Flat flanges. 2000mm long.	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1014122	WGAPT-1812 WG17 / WR75 / R120 Ku-band (10-15 GHz) waveguide to coaxial adapter. 50ohm SMA RF connector to UBR120 waveguide connector.	Each	None	1 Year	US
33411	Signal Mountain	1014123	WGAPT-1812 WG17 / WR75 / R120 Ku-band (10-15 GHz) waveguide to coaxial adapter. 50ohm N-Type RF connector to PBR120 waveguide connector.	Each	None	1 Year	US
33411	Signal Mountain	1014124	WGAPT-1812-A WG17 / WR75 / R120 Ku-Band (10-15 GHz) waveguide to coaxial adapter. 50 ohm SMA RF connector to UBR120 waveguide connector. Aluminum waveguide.	Each	None	1 Year	US
33411	Signal Mountain	1014125	WGLK2-1820 WG17 / WR75 / R120 Ku-band (10-15GHz) waveguide load with UBR120 flanges. 20W, 50mm long.	Each	None	1 Year	US
33411	Signal Mountain	1014126	WGLK2-1820-A WG17 / WR75 / R120 Ku-band (10-15GHz) aluminum waveguide load with UBR120 flanges. 20W, 50mm long.	Each	None	1 Year	US
33411	Signal Mountain	1014127	WGCK2-1822 WG17 / WR75 / R120 Ku-band (10-15GHz) 50dB cross guide coupler with 20dB typical directivity. 50 ohm SMA on coupled port & UBR120 flanges.	Each	None	1 Year	US
33411	Signal Mountain	1014128	WGCK2-1822 WG17 / WR75 / R120 Ku-band (10-15GHz) 50dB cross guide coupler with 20dB typical directivity. 50 ohm N-type on coupled port & UBR120 flanges.	Each	None	1 Year	US
33411	Signal Mountain	1014129	WGCK2-1822-A WG17 / WR75 / R120 Ku-band (10-15GHz) 50dB aluminum cross guide coupler with 20dB typical directivity. 50 ohm N-type on coupled port & UG Cover/Groove flanges.	Each	None	1 Year	US
33411	Signal Mountain	1014130	WGCK2-1823 WG17 / WR75 / R120 Ku-band (10-15GHz) 40dB cross guide coupler with 20dB typical directivity. 50 ohm SMA on coupled port & UBR120 flanges.	Each	None	1 Year	US
33411	Signal Mountain	1014131	WGCK2-1823 WG17 / WR75 / R120 Ku-band (10-15GHz) 40dB cross guide coupler with 20dB typical directivity. 50 ohm N-type on coupled port & UBR120 flanges.	Each	None	1 Year	US
33411	Signal Mountain	1014132	WGCK2-1824 WG17 / WR75 / R120 Ku-band (10-15GHz) 20dB cross guide coupler with 20dB typical directivity. 50 ohm SMA on coupled port & UBR120 flanges.	Each	None	1 Year	US
33411	Signal Mountain	1014133	WGCK2-1824 WG17 / WR75 / R120 Ku-band (10-15GHz) 20dB cross guide coupler with 20dB typical directivity. 50 ohm N-type on coupled port & UBR120 flanges.	Each	None	1 Year	US
33411	Signal Mountain	1014134	WGCK2-1813 WG17/WR75/R120 Ku-Band (10-15 GHz) 30dB Cross guide coupler with 10dB min directivity, 20dB typical. Fitted with 50ohm SMA on coupled output port & UBR120 waveguide flanges.	Each	None	1 Year	US
33411	Signal Mountain	1014135	WGCK2-1813 WG17 / WR75 / R120 Ku-band (10-15 GHz) waveguide to coaxial adapter. 50ohm N-Type RF connector to PBR120 waveguide connector.	Each	None	1 Year	US
33411	Signal Mountain	1014200	ALR-01490330-Ku Loop Test Translator - Synthesized LO Input Frequency: 12.75-14.5GHz Output Frequency: 10.7-12.75GHz LO Frequency: 1.49-3.30GHz	Each	None	1 Year	US
33411	Signal Mountain	1014201	ALR-08801095-Ka-04 Loop Test Translator - Synthesized LO Input Frequency in Range: 27.50 - 31.50GHz Output Frequency in Range: 17.70-21.20GHz LO Frequency in Range: 8.80-10.95GHz OPTION 04 - Attenuation 60dB in 1dB Steps	Each	None	1 Year	US
33411	Signal Mountain	1014202	ALR-23302530-Q Loop Test Translator - Synthesized LO Input Frequency Range: 43.5 - 45.5GHz Output Frequency Range: 20.2 - 22.2GHz LO Frequency Range: 23.3GHz	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1014203	ALR-4975-C Loop Test Translator - Synthesized LO Input Frequency: 5.8-6.7GHz Output Frequency: 825-1725MHz LO Frequency: 4975MHz	Each	None	1 Year	US
33411	Signal Mountain	1014204	ALT-0175-S Loop Test Translator Input Frequency: 2025-2125MHz Output Frequency: 2200-2300MHz LO Frequency: 175MHz	Each	None	1 Year	US
33411	Signal Mountain	1014205	ALT-0650-X Loop Test Translator Input Frequency: 7900-8400MHz Output Frequency: 7250-7750MHz LO Frequency: 650MHz	Each	None	1 Year	US
33411	Signal Mountain	1014206	ALT-10300-Ka Loop Test Translator Input Frequency: 28 - 31.5GHz Output Frequency: 17.7 - 21.2GHz LO Frequency: 10.30GHz	Each	None	1 Year	US
33411	Signal Mountain	1014207	ALT-1750-Ku Loop Test Translator Input Frequency: 14000-14500MHz Output Frequency: 12250-12750MHz LO Frequency: 1750MHz	Each	None	1 Year	US
33411	Signal Mountain	1014208	ALT-2225-C Loop Test Translator Input Frequency: 5845-6425MHz Output Frequency: 3620-4200MHz LO Frequency: 2225MHz	Each	None	1 Year	US
33411	Signal Mountain	1014209	ALD-Ka-1001 Dual Channel Loop Test Translator Channel 1: RF Input: 27.5-31.5GHz RF Output: 950-1700MHz LO Frequency Range: 26.55-29.8GHz LO Step Size: 25MHz Attenuation Range: 30dB Attenuation Control: 0.25dB Steps Channel 2: RF Input: 950-1700MHz RF Output: 17.7-21.2GHz LO Frequency Range: 16.75-19.5GHz LO Step Size: 25MHz Attenuation Range: 30dB Attenuation Control: 0.25dB Steps	Each	None	1 Year	US
33411	Signal Mountain	1014210	ALD-Ku-1002 Dual Channel Loop Test Translator Channel 1: RF Input: 12.75-14.50GHz RF Output: 950-1700MHz LO Frequency Range: 11.80-13.05GHz LO Step Size: 25MHz Attenuation Range: 30dB Attenuation Control: 0.25dB Steps Channel 2: RF Input: 950-1700MHz RF Output: 10.70-12.75GHz LO Frequency Range: 9.75-11.05GHz LO Step Size: 25MHz Attenuation Range: 30dB Attenuation Control: 0.25dB Steps	Each	None	1 Year	US
33411	Signal Mountain	1014211	ANG-1613 Broadband Noise Generator Frequency Range: 10MHz - 2.5GHz Output Power: +10dBm nom. Noise Density: -84dBm/Hz nom. Output Flatness: +/-1.5dB typ. Output Impedance: 50 ohms nom. Attenuator Range: 0 to 10dB in 1dB steps Operating Temperature: -10 to +50C Input Power: 80-240V @ 50/60Hz Connectors: SMA Female	Each	None	1 Year	US
33411	Signal Mountain	1014212	RNG-1613-11 Broadband Noise Generator Ethernet Control Frequency Range: 10MHz - 2.5GHz Remote & Local Operation Attenuator Range: 0-30dB in 1.0dB Steps (standard) Output Power: +10dBm nom. Noise Density: -84dBm/Hz nom. Output Flatness: +/-1.5dB typ. Output Impedance: 50 ohms nom. Operating Temperature: -10 to +50C Input Power: 80-240V @ 50/60Hz Connectors: SMA Female 19" x 1U Rack Mount Opt 11: Output Mute	Each	None	1 Year	US
33411	Signal Mountain	1014213	DSS-9800-Ka Ka-Band Drone mounted Satellite Simulator Uplink Frequency: 27.5 - 31GHz Down Link Frequency: 17.7 - 21.2GHz LO Frequency: 9800MHz	Each	None	1 Year	US
33411	Signal Mountain	1014214	DSS-2800-Ku Ku-Band Drone mounted Satellite Simulator Uplink Frequency: 14 - 14.5GHz Down Link Frequency: 11.2 - 11.7GHz LO Frequency: 2800MHz	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1014215	LNI-1180-1305-Ku Loop Test Translator with Noise Injection Input Frequency Range: 12.75-14.50GHz Output Frequency Range: 0.8-2.6GHz LO Frequency Range: 11.80-13.05GHz	Each	None	1 Year	US
33411	Signal Mountain	1014216	LSS-9800-Ka Ka Band Satellite Simulator Uplink Frequency: 27.5 - 31.0 Down Link Frequency: 17.7 - 21.2 LO Frequency: 9.80GHz	Each	None	1 Year	US
33411	Signal Mountain	1014217	RSS-0149-0330-Ku Ku Band Satellite Simulator Uplink Frequency: 12.75 - 14.5 GHz Down Link Frequency: 10.7 - 12.75 GHz LO Frequency: 1.49 - 3.30 GHz	Each	None	1 Year	US
33411	Signal Mountain	1014218	RSS-0880-1095-Ka Ka Band Satellite Simulator Uplink Frequency: 27.50 - 31.50 GHz Down Link Frequency: 17.70 - 21.20 GHz LO Frequency: 8.80 - 10.95 GHz	Each	None	1 Year	US
33411	Signal Mountain	1014219	SNG-0175-0330-Ku Ku Band Satellite Simulator Uplink Frequency: 14.0 - 14.5 GHz Down Link Frequency: 10.7 - 12.75 GHz LO Frequency: 1.75 - 3.30 GHz	Each	None	1 Year	US
33411	Signal Mountain	1014220	WGB-0558-197074 WG17 / WR75 / R120 Ku-band (10-15 GHz) Waveguide Rigid Straight. 558mm Length fitted with UG Cover/Flat & UG Seal/Groove Flanges.	Each	None	1 Year	US
33411	Signal Mountain	1010331	SCOUT® AvL Model 1098T Positioner Model 1098 Ku-Band Tripod Case-Based Flyaway MVSAT Antenna: Removable, AvL 1.0m or 1.2m Engineered Composite Ku-Band Reflector, Composite Reflector packaged in Two Roto-mold Cases (Case 2A - Refl., Case 2B - Boom/Feed/Stabilizers), AvL Lightweight Tripod, AvL Ku-band "Precision" 2-Port Rx/Tx Feed w/ Integral Pol Drive (see "Mode-Matched" Feed, upgrade option for highest cross-pol isolation), Removable, Positioner-Supported Feed Boom (no boom load on reflector), AvL El-over-Az Cable-Drive Antenna Positioner: (±200° Az; 0-90° El; ±95° Pol), Circular Hand Crank for Emergency/Manual Stow of Az and El Axes, "Universal" BUC Mounting, AAq Auto Controller, Integrated 6 or 8 Watt BUC, PLL LNB	Each	None	1 Year	US
33411	Signal Mountain	1010332	SCOUT® AvL Model 1030 Flyaway 2 Case Airline Checkable Positioner (Pack in Box Flyaway or Tripod Antenna): Contains AvL Two Axis Cable Drive Positioner, 1.0 or 1.2m Reflector Kit, Ku Precision Feed, AAq Controller, Integrated 6 or 8 Watt BUC, PLL LNB	Each	None	1 Year	US
33411	Signal Mountain	1010333	SCOUT® AvL Model 1220 Positioner (Pack in Box Flyaway or Tripod Antenna): Removable, AvL 1.2m or 2.0m Engineered Composite Ku-Band Reflector / 1.2m or 1.6m Ka Reflector, Composite Reflector packaged in Two Roto-mold Cases (Case 2A - Refl., Case 2B - Boom/Feed/Stabilizers), AvL Lightweight Tripod, AvL Precision 2-Port Rx/Tx Feed w/ Integral Pol Drive (see "Mode-Matched" Feed, upgrade option for highest cross-pol isolation), Removable, Positioner-Supported Feed Boom (no boom load on reflector), AvL El-over-Az Cable-Drive Antenna Positioner: (±200° Az; 0-90° El; ±95° Pol), Circular Hand Crank for Emergency/Manual Stow of Az and El Axes, "Universal" BUC Mounting, AAq Auto Controller, Integrated 6 or 8 Watt BUC, PLL LNB	Each	None	1 Year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
33411	Signal Mountain	1010334	SCOUT® AvL Model 2020 Positioner (Pack in Box Flyaway or Tripod Antenna): Removable, AvL 1.6m or 2.4m Engineered Composite Ku-Band Reflector, Composite Reflector packaged in Two Roto-mold Cases (Case 2A - Refl., Case 2B - Boom/Feed/Stabilizers), AvL Lightweight Tripod, AvL Ku-band "Precision" 2-Port Rx/Tx Feed w/ Integral Pol Drive (see "Mode-Matched" Feed, upgrade option for highest cross-pol isolation), Removable, Positioner-Supported Feed Boom (no boom load on reflector), AvL El-over-Az Cable-Drive Antenna Positioner: ($\pm 200^\circ$ Az; $0-90^\circ$ El; $\pm 95^\circ$ Pol), Circular Hand Crank for Emergency/Manual Stow of Az and El Axes, "Universal" BUC Mounting, AAq Auto Controller, Integrated 6 or 8 Watt BUC, PLL LNB	Each	None	1 Year	US
33411	Signal Mountain	1010335	SCOUT® AvL Model 1224i Integrated Positioner	Each	None	1 Year	US
33411	Signal Mountain	1010622	FiT Axis AvL Positioner (.75m, .98m, or 1.35m Antenna)	Each	None	1 Year	US
33411	Signal Mountain	1010623	FiT AvL Ku Band Kit	Each	None	1 Year	US
33411	Signal Mountain	1010624	FiT AvL Ka Band Kit	Each	None	1 Year	US
33411	Signal Mountain	1010625	FiT AvL X Band Kit	Each	None	1 Year	US
33411	Signal Mountain	1010626	FiT AvL Auto Acquire Option (factory installed with motors)	Each	None	1 Year	US
33411	Signal Mountain	1010627	FiT AvL Extended Control Cable Option (50' IFL Cable)	Each	None	1 Year	US
33411	Signal Mountain	1010628	FiT AvL Multiband Case	Each	None	1 Year	US
33411	Signal Mountain	1010629	FiT AvL Antenna Backpack Option	Each	None	1 Year	US
33411	Signal Mountain	1011490	Ku AvL Precision Feed Kit	Each	None	1 Year	US
33411	Signal Mountain	1011491	Ka AvL CP Feed Kit	Each	None	1 Year	US
33411	Signal Mountain	1011492	Ka AvL LP Feed Kit	Each	None	1 Year	US
33411	Signal Mountain	1010316	SCOUT® AvL 1258KFD MVSAT - 1.2 Meter Auto Acquire Antenna (Vehicular Mount) 1.2m AvL Engineered Composite 4-Piece Reflector, Motorized AvL Az/El Compact Cable Drive Positioner, Offset, Prime Focus Optics, 2-Port Ku "Precision" (standard Cross-Pol comp.), AvL Auto-Acquisition Controller w/ Web Browser GUI, Dual-Mode Configuration: 1-Case Pack-Up with Removable Outriggers for Ground/FlyAway Mode; Base Mounting Provisions for Vehicle/DriveAway Mode	Each	None	1 Year	US

EXHIBIT B

SIN 811212 MAINTENANCE OF EQUIPMENT, REPAIR SERVICES AND/OR REPAIR/SPARE PARTS

SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
811212	Signal Mountain	1020112	RMA/Extended warranty subscription for IDirect 7XXX System	Monthly Service	None	1 year	US
811212	Signal Mountain	1020325	1 year RMA/Extended warranty subscription for AvL 1030/1040	Yearly Service	None	1 year	US
811212	Signal Mountain	1020336	RMA/Extended warranty subscription for AvL 1030/1040 (Month pro-rated)	Monthly Service	None	1 year	US
811212	Signal Mountain	1020337	RMA/Extended warranty subscription for AvL 1278K (Month pro-rated)	Monthly Service	None	1 year	US
811212	Signal Mountain	1020338	RMA/Extended warranty subscription for AvL 1278KFD (Month pro-rated)	Monthly Service	None	1 year	US

EXHIBIT C
SIN 54151S LABOR CATEGORY DESCRIPTIONS

A. **SENIOR NETWORK ENGINEER**

Item 5010002

Minimum / General Experience: Minimum of seven (7) years of experience in assisting or managing the development, design, implementation and maintenance of complex cross-platform networks and communications systems.

Functional Responsibility: Practice of demonstrated experience with LAN/WAN, switches, routers, satellite devices, accelerators, SIPR/NIPR and other ancillary systems, protocols and standards. Creates test plans and generates and maintains reporting documentation and planning documents.

Minimum Education:

- Bachelor's degree in Engineering or Science field and minimum 7 years of demonstrated and relevant experience in the field; or
- Associate's degree in Engineering or Science field and minimum 10 years of demonstrated and relevant experience in the field; or
- Demonstrated equivalence of twelve (12) year experience in multi-platform environments, plus combination of relevant certifications by recognized manufacturers of technical education institutions including iDirect Satellite 101, Operations & Maintenance, Hub Configuration, AvL Technologies Operations & Maintenance, and Cisco Networking certifications.

Must have completed Signal Mountain Networks "Quality Plus" installation training course.

B. **IT PROJECT MANAGER**

Item 5010003

Minimum / General Experience: Seven (7) years of experience in leading/managing multi-disciplinary teams in the implementation or solving of complex technological problems/systems.

Functional Responsibility: Provides leadership for engineering activities in a specialized engineering or technology subject area and is versatile in using and developing tools and strategies to maximize technical and human resources

Minimum Education:

- Bachelor's degree in Engineering or Science field and minimum 7 years of demonstrated and relevant experience in the field; or
- Associate's degree in Engineering or Science field and minimum 10 years of demonstrated and relevant experience in the field; or
- Demonstrated equivalence of twelve (12) years of experience in multi-platform environments (voice, data, video, satellite, terrestrial), particularly with satellite communications integration/IT integration, combination of relevant certifications by recognized manufacturers with technical education programs such as iDirect,

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AvL, ComTech, and Cisco, understanding and experience with government systems, regulations and procedures.

Must have completed Signal Mountain Networks "Quality Plus" installation training course.

C. SENIOR SYSTEMS ENGINEER

Item 5010004

Minimum / General Experience: Minimum of ten (10) years of experience in managing the development, design, implementation and maintenance of complex cross-platform networks and communications systems.

Functional Responsibility: Practice of demonstrated experience in designing, configuring, implementing, upgrading and maintaining satellite hubs and their interface with LAN/WAN devices and applications, SIPR/NIPR and other ancillary systems, protocols and standards according to organizational mission strategies, financial and operational requirements. Creates and executes management plans to successfully implement systems architectures and is experienced in effectively interacting with C-level management, Project Managers and Subject Matter Experts.

Minimum Education:

- PHD-level degree in Engineering or Science field and minimum 8 years of demonstrated and relevant experience in the field; or
- Master's degree in Engineering, or Science field and minimum 10 years of demonstrated and relevant experience in the field; or
- Bachelor's degree in Engineering or Science field and minimum 12 years of demonstrated and relevant experience in the field; or
- Associate's degree in Engineering or Science field or equivalent and minimum 15 years of demonstrated and relevant experience in managing multi-platform system architectures (Satellite+Terrestrial 2/3 Layer, enterprise applications, voice, video), plus combination of relevant certifications by recognized manufacturers with technical education programs including iDirect Satellite 101/201, Operations & Maintenance, Hub Configuration & Implementation, AVL Technologies Operations & Maintenance, and Cisco Networking certifications.

Must have completed Signal Mountain Networks "Quality Plus" installation training course

D. IT PROGRAM MANAGER

Item 5010005

MILTIDISCIPLINARY

Minimum / General Experience: Seven to ten (7-10) years of experience in leading/managing teams in the implementation or solving of complex technological problems/systems.

Functional Responsibility: Provides leadership for engineering activities in a specialized engineering or technology subject area and is versatile in using and developing tools and strategies to maximize technical and human resources

Minimum Education:

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- Bachelor's degree in Engineering or Science field and minimum 7 years of demonstrated and relevant experience in the field; or
- Associate's degree in Engineering or Science field and minimum 10 years of demonstrated and relevant experience in the field; or
- Demonstrated equivalence of twelve (10) year experience in multi-platform environments (voice, data, video, satellite, terrestrial), particularly with satellite communications integration/IT integration, combination of relevant certifications by recognized manufacturers of technical education institutions such as iDirect, AvL, ComTech, and Cisco, understanding and experience with government systems, regulations and procedures, as well as PMP and MPA certifications

Must have completed Signal Mountain Networks "Quality Plus" installation training course.

E. SUBJECT MATTER EXPERT 1

Item 5010006

Minimum / General Experience: More than ten (10) year experience creating complex systems or managing and solving complex challenges in system architectures with industry-wide reputation for proficiency in a relevant technical area.

Functional Responsibility: Provides leadership for engineering activities in a specialized engineering or technology subject area and is versatile in using and developing tools and strategies in state-of-the-art simulation environments, laboratories, and test facilities to create new products, services and solution using scientific methods, as well as to solve complex challenges.

Minimum Education:

- PHD-level degree, specialist or doctorate in Engineering or Science field and more than 10 years of demonstrated and relevant experience in the field; or
- Master's degree in Engineering or Science field and more than 12 years of demonstrated and relevant experience in the field; or
- Bachelor's degree in Engineering or Science field and more than 14 years of demonstrated and relevant experience in the field; or
- Combination of Associate's degree in Engineering or Science field, more than 16 years of demonstrated and relevant experience in managing multi-platform system architectures (Satellite+Terrestrial 2/3 Layer, enterprise applications, voice, video), plus combination of relevant certifications by recognized manufacturers with technical education programs including iDirect Satellite 101/201, Operations & Maintenance, Hub Configuration & Implementation, AvL Technologies Operations & Maintenance, and Cisco Networking certifications.

Must have completed Signal Mountain Networks "Quality Plus" installation training course.

F. ENGINEER

Item 5010300

Minimum / General Experience: Minimum of one (1) year experience installing and maintaining field fixed and mobile satellite systems, keen attention to detail and punctuality essential to successful performance of job. Courteous and professional in interaction with customers.

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Functional Responsibility: Install fixed and mobile satellite systems, including cabling, signal strength evaluation, quality check, placement of roof and pole mounts, operation of power tools. Maintenance tasks include thorough testing, repair and replacement of system components. Coordinates with Signal Mountain support desk personnel and customers during initial installation and onsite dispatches.

Minimum Education:

- High school diploma with secondary technical education desired.

Must have completed Signal Mountain Networks "Quality Plus" installation training course

G. FIELD TECHNICIAN

Item 5010500

Minimum / General Experience: Minimum of three (3) year experience installing and maintaining field fixed and mobile satellite systems, keen attention to detail and punctuality essential to successful performance of job. Courteous and professional in interaction with customers.

Functional Responsibility: Install fixed and mobile satellite systems, including cabling, signal strength evaluation, quality check, placement of roof and pole mounts, operation of power tools. Maintenance tasks include thorough testing, repair and replacement of system components. Coordinates with Signal Mountain support desk personnel and customers during initial installation and onsite dispatches.

Minimum Education:

- High school diploma with secondary technical education desired

Must have completed Signal Mountain Networks "Quality Plus" installation training course.

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EXHIBIT D
SIN 54151S IT PROFESSIONAL SERVICES

SIN	NUMBER	JOB TITLE	GSA Price (Including IFF)	QUANTITY/ VOLUME DISCOUNT
54151S	5010002	Network Engineer	\$129.22	None
54151S	5010003	IT Project Manager	\$139.92	None
54151S	5010004	Senior Systems Engineer	\$179.95	None
54151S	5010005	IT Program Manager	\$180.91	None
54151S	5010006	Subject Matter Expert I	\$224.94	None
54151S	5010300	Engineer	\$44.22	None
54151S	5010500	Field Technician	\$50.25	None

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EXHIBIT E

SIN 54151ECOM

ELECTRONIC COMMERCE AND SUBSCRIPTION SERVICES

SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
54151ECOM	Signal Mountain	1051700	Enterprise CIR per Kbps -One way [ATLIS Teleport] *Required for VoIP	Monthly Service	None	1 year	US
54151ECOM	Signal Mountain	1052104	Dedicated Rack Space "1U" per month (For Dedicated Circuit at teleport)	Monthly Service	None	1 year	US

EXHIBIT F

SIN 517410

COMMERCIAL SATELLITE COMMUNICATIONS SOLUTIONS (COMSATCOM)

SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
517410	Signal Mountain	1011801	Activation Satellite remote site	Each	None	1 year	US
517410	Signal Mountain	1051512	1 MHz, Ku/C/Ka/X-band, 1 yr contract, price per month - CONUS	Monthly Service	None	1 year	US
517410	Signal Mountain	1051513	1 MHz, Ku/C/Ka/X-band, 1 yr contract, price per month- AFR	Monthly Service	None	1 year	US
517410	Signal Mountain	1051514	1 MHz, Ku/C/Ka/X-band, 1 yr contract, price per month - AMR	Monthly Service	None	1 year	US
517410	Signal Mountain	1051515	1 MHz, Ku/C/Ka/X-band, 1 yr contract, price per month - AOR	Monthly Service	None	1 year	US
517410	Signal Mountain	1051516	1 MHz, Ku/C/Ka/X-band, 1 yr contract, price per month - ASR	Monthly Service	None	1 year	US
517410	Signal Mountain	1051519	1 MHz, Ku/C/Ka/X-band, 1 yr contract, price per month - EUR	Monthly Service	None	1 year	US
517410	Signal Mountain	1051520	1 MHz, Ku/C/Ka/X-band, 1 yr contract, price per month - IOR	Monthly Service	None	1 year	US
517410	Signal Mountain	1051521	1 MHz, Ku/C/Ka/X-band, 1 yr contract, price per month - MER	Monthly Service	None	1 year	US
517410	Signal Mountain	1051522	1 MHz, Ku/C/Ka/X-band, 1 yr contract, price per month - POR	Monthly Service	None	1 year	US
517410	Signal Mountain	1051523	1 MHz, Ku/C/Ka/X-band, 1 yr contract, price per month - Any Region Global	Monthly Service	None	1 year	US
517410	Signal Mountain	1051530	1yr - 1 MHz, Ku/C/Ka/X-band - CONUS	Monthly Service	None	1 year	US
517410	Signal Mountain	1051531	1yr - 1 MHz, Ku/C/Ka/X-band - AFR	Monthly Service	None	1 year	US
517410	Signal Mountain	1051532	1yr - 1 MHz, Ku/C/Ka/X-band - AMR	Monthly Service	None	1 year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
517410	Signal Mountain	1051533	1yr - 1 MHz, Ku/C/Ka/X-band - AOR	Monthly Service	None	1 year	US
517410	Signal Mountain	1051534	1yr - 1 MHz, Ku/C/Ka/X-band - ASR	Monthly Service	None	1 year	US
517410	Signal Mountain	1051535	1yr - 1 MHz, Ku/C/Ka/X-band - EUR	Monthly Service	None	1 year	US
517410	Signal Mountain	1051536	1yr - 1 MHz, Ku/C/Ka/X-band - IOR	Monthly Service	None	1 year	US
517410	Signal Mountain	1051537	1yr - 1 MHz, Ku/C/Ka/X-band - MER	Monthly Service	None	1 year	US
517410	Signal Mountain	1051538	1yr - 1 MHz, Ku/C/Ka/X-band - POR	Monthly Service	None	1 year	US
517410	Signal Mountain	1051539	1yr - 1 MHz, Ku/C/Ka/X-band - Any Region Global	Monthly Service	None	1 year	US
517410	Signal Mountain	1011802	Teleport Activation Private Network	Each	None	1 year	US
517410	Signal Mountain	1011803	Additional Line card set up fee	Each	None	1 year	US
517410	Signal Mountain	1050001	Bandwidth for 768Kbps/768Kbps CONUS (Alaska & Hawaii) - Per month	Monthly Service	None	1 year	US
517410	Signal Mountain	1050002	Bandwidth for 400Kbps/600Kbps (Korea) - Per month	Monthly Service	None	1 year	US
517410	Signal Mountain	1050003	Annual Bandwidth for 768Kbps/768Kbps CONUS (Alaska & Hawaii)	Yearly Service	None	1 year	US
517410	Signal Mountain	1050004	Annual Bandwidth for 400Kbps/600Kbps (Korea)	Yearly Service	None	1 year	US
517410	Signal Mountain	1050005	1 Yr Satellite Service, Low Data Only 128Kbps/128Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050006	1 Yr Satellite Service, Low Data Only 256Kbps/256Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050007	1 Yr Satellite Service, Low Data Only 384Kbps/384Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050008	1 Yr Satellite Service, Low Data Only 448Kbps/448Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050009	1 Yr Satellite Service, Low Data Only 512Kbps/512Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050010	1 Yr Satellite Service, Low Data Only 768Kbps/768Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050011	1 Yr Satellite Service, Low Data Only 1Mbps/1Mbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050012	1 Yr Satellite Service, Standard - Data Only 128Kbps/128Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
517410	Signal Mountain	1050013	1 Yr Satellite Service, Standard - Data Only 256Kbps/256Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050014	1 Yr Satellite Service, Standard - Data Only 384Kbps/384Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050015	1 Yr Satellite Service, Standard - Data Only 448Kbps/448Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050016	1 Yr Satellite Service, Standard - Data Only 512Kbps/512Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050017	1 Yr Satellite Service, Standard - Data Only 768Kbps/768Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050018	1 Yr Satellite Service, Standard - Data Only 1Mbps/1Mbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050019	1 Yr Satellite Service, Premium - Data Only 128Kbps/128Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050020	1 Yr Satellite Service, Premium - Data Only 256Kbps/256Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050021	1 Yr Satellite Service, Premium - Data Only 384Kbps/384Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050022	1 Yr Satellite Service, Premium - Data Only 448Kbps/448Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050023	1 Yr Satellite Service, Premium - Data Only 512Kbps/512Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050024	1 Yr Satellite Service, Premium - Data Only 768Kbps/768Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050025	1 Yr Satellite Service, Premium - Data Only 1Mbps/1Mbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050026	1 Yr Satellite Service, (Dedicated) 128Kbps/128Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050027	1 Yr Satellite Service, (Dedicated) 256Kbps/256Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050028	1 Yr Satellite Service, (Dedicated) 384Kbps/384Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
517410	Signal Mountain	1050029	1 Yr Satellite Service, (Dedicated) 448Kbps/448Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050030	1 Yr Satellite Service, (Dedicated) 512Kbps/512Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050031	1 Yr Satellite Service, (Dedicated) 768Kbps/768Kbps [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050032	1 Yr Satellite Service, (Dedicated) 1Mbps/1Mbp [ATLIS Teleport/SCOUT® Managed Network]	Yearly Service	None	1 year	US
517410	Signal Mountain	1050035	1 yr Satellite Service, Premium Multi-site - 256Kbps/256Kbps Secure Network	Yearly Service	None	1 year	US
517410	Signal Mountain	1050036	1 yr Satellite Service, Premium Multi-site - 512Kbps/512Kbps Secure Network	Yearly Service	None	1 year	US
517410	Signal Mountain	1051501	Satellite Service, Low Data Only 1.5Mbps/1.5Mbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051502	Satellite Service, Low Data Only 2Mbps/2Mbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051503	Satellite Service, Standard - Data Only 1.5Mbps/1.5Mbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051504	Satellite Service, Standard - Data Only 2Mbps/2Mbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051505	Satellite Service, Premium - Data Only 1.5Mbps/1.5Mbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051506	Satellite Service, Premium - Data Only 2Mbps/2Mbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051507	Satellite Service, Premium - Premium Multi-site - 1Mbps/1Mbps Secure Network - Per month SCOUT® Managed Network	Monthly Service	None	1 year	US
517410	Signal Mountain	1051508	Satellite Service, Premium - Premium Multi-site - 1.5Mbps/1.5Mbps Secure Network - Per month SCOUT® Managed Network	Monthly Service	None	1 year	US
517410	Signal Mountain	1051509	Satellite Service, Premium - Premium Multi-site - 2Mbps/2Mbps Secure Network - Per month SCOUT® Managed Network	Monthly Service	None	1 year	US
517410	Signal Mountain	1051510	Satellite Service, (Dedicated) 1.5Mbps/1.5Mbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051511	Satellite Service, (Dedicated) 2Mbps/2Mbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051701	Satellite Service, Low Data Only 128Kbps/128Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051702	Satellite Service, Low Data Only 256Kbps/256Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051703	Satellite Service, Low Data Only 384Kbps/384Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
517410	Signal Mountain	1051704	Satellite Service, Low Data Only 448Kbps/448Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051705	Satellite Service, Low Data Only 512Kbps/512Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051706	Satellite Service, Standard - Data Only 128Kbps/128Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051707	Satellite Service, Standard - Data Only 256Kbps/256Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051708	Satellite Service, Standard - Data Only 384Kbps/384Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051709	Satellite Service, Standard - Data Only 448Kbps/448Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051710	Satellite Service, Standard - Data Only 512Kbps/512Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051711	Satellite Service, Premium - Data Only 128Kbps/128Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051712	Satellite Service, Premium - Data Only 256Kbps/256Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051713	Satellite Service, Premium - Data Only 384Kbps/384Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051714	Satellite Service, Premium - Data Only 448Kbps/448Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051715	Satellite Service, Premium - Data Only 512Kbps/512Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051716	Satellite Service, (Dedicated) 128Kbps/128Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051717	Satellite Service, (Dedicated) 256Kbps/256Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051718	Satellite Service, (Dedicated) 384Kbps/384Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051719	Satellite Service, (Dedicated) 448Kbps/448Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051720	Satellite Service, (Dedicated) 512Kbps/512Kbps [ATLIS Teleport]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051721	Satellite Service, Standard - Data Only 768Kbps/768Kbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051722	1 yr Satellite Service, Premium Multi-site - 768Kbps/768Kbps Secure Network	Yearly Service	None	1 year	US
517410	Signal Mountain	1051723	Satellite Service, (Dedicated) 768Kbps/768Kbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051724	Satellite Service, Standard - Data Only 1Mbps/1Mbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US

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SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	UOI	QUANTITY/ VOLUME DISCOUNT	WTY	COO
517410	Signal Mountain	1051725	Satellite Service, Low Data Only 768Kbps/768Kbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051726	Satellite Service, Low Data Only 1Mbps/1Mbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051727	Satellite Service, Premium - Data Only 1Mbps/1Mbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051728	Satellite Service, (Dedicated) 1Mbps/1Mbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US
517410	Signal Mountain	1051729	Satellite Service, Premium Multi-site - 256Kbps/256Kbps Secure Network - Per month	Monthly Service	None	1 year	US
517410	Signal Mountain	1051730	Satellite Service, Premium Multi-site - 512Kbps/512Kbps Secure Network - Per month	Monthly Service	None	1 year	US
517410	Signal Mountain	1051731	Satellite Service, Premium Multi-site - 768Kbps/768Kbps Secure Network - Per month	Monthly Service	None	1 year	US
517410	Signal Mountain	1051732	Satellite Service, Premium - Data Only 768Kbps/768Kbps [ATLIS Teleport/SCOUT® Managed Network]	Monthly Service	None	1 year	US