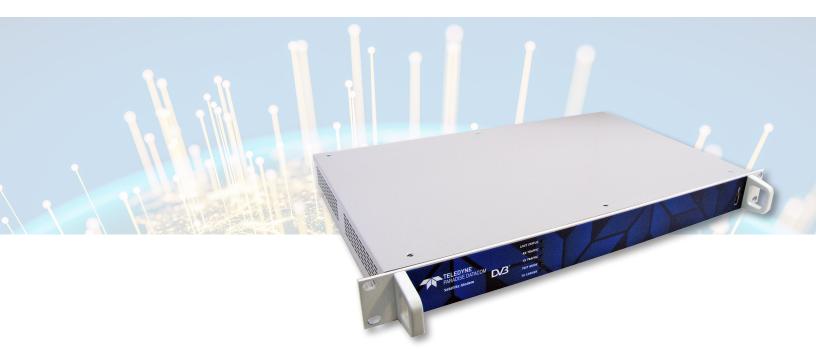
AXIOM-N Encryption

IP-Centric Rack-Mount Satellite Modem



A New Compatible Member of the Paradise Modem Family with AES-256 Encryption



Overview

The AXIOM Compact is our smallest, most powerful satellite modem to date, designed to provide exceptional performance and reliability, with the lowest power consumption aimed specifically at the VSAT and mobile systems networks. The availability of higher order modulations makes the AXIOM Compact ideal to support new HTS satellites, so future proofing your investment.

Features include:

- **High capacity:** IP-centric, DVB-S2X, options up to 345Mb/s Tx, 230Mb/s Rx
- Secure: SCPC is more secure than TDMA, and provides guaranteed bandwidth for always-on applications.
- Compatible with Q & AXIOM products
- Enhanced Doppler: Superior performance for LEO and MEO communications with an allowable frequency shift of up to ±700kHz and rate of change up to ±100kHz/s
- Star remote node in a **Point-to-Multipoint** system, with an QMultiFlex-400 Hub or **Point-to-Point** with AXIOM or Q Series Modems.
- Built-in AES-256 Encryption for enhanced security



The AXIOM-N (above) compared to the Paradise Q-Series rack-mount modem

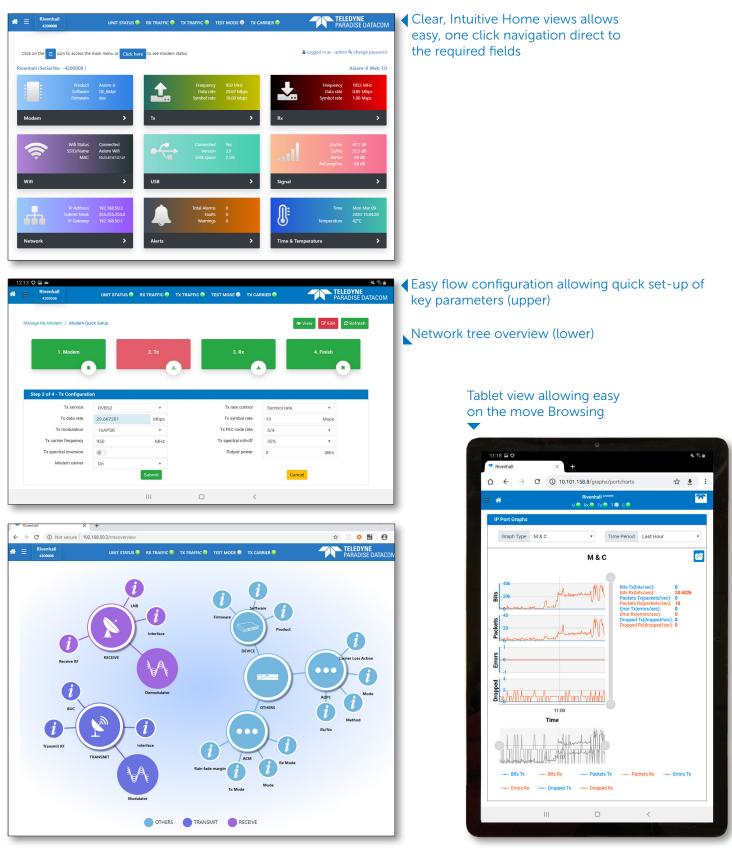
Markets & Applications

- Broadband Internet access / rural Internet access
- VoIP networks
- Wi-Fi hotspots
- Small Office / Home Office
- SME
- Ship crew / passenger entertainment
- Internet of things
- Enterprise / corporate networks



New Web User Interface

The AXIOM-N M&C is via an intuitive Ethernet based web browser ideally suited to use on a tablet, Mobile or laptop PC and allows the user to install, configure and monitor the Modem with ease. In addition, WiFi capability further enhances the ease of use and provides greater flexibility for remote control and installation using portable devices.



AXIOM-N Encryption - IP-Centric Rack-Mount Satellite Modem

Built for the Most Stringent Portable Applications

SECURE

• SCPC is both secure, and with Paradise

Modems, easy to provision



COMPATIBLE

• Reuse your existing code

• No need for extensive retraining of

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Main Specifications

Topology	Point to Point or Star Modem within a Point to Multipoint Network			
Standard	DVB-S2: (EN 302 307-1)(Supports all DVB-S2 & DVB-S2X MODCOD's including Linear MODCOD's)			
Frequency	L-band: 950 to 2150MHz (resolution 1Hz)			
Data Rates	Standard: 2,048kbps Options: 5Mbps, 10Mbps, 25Mbps, 100Mbps, 230Mbps (Rx) & 345Mbps (Tx only)			
Data Rate Limits	DVB-S2/S2X: 100kbps to 345Mbps Tx & 100kbps to 230Mbps Rx			
Tx Symbol Rate Limits	DVB-S2/S2X: 100ksps to 100Msps			
RX Symbol Rate Limits	DVB-S2/S2X: 100ksps to 100Msps (85Msps @ 8PSK/8APSK, 64Msps @ 16APSK, 51Msps @ 32APSK, 43Msps @ 64APSK, 36Msps @ 128APSK, 32Msps @ 256APSK.)			

Router Specifications

Network Support	Layer 2 Bridging, Layer 3 Routing, Jumbo Frames to 10k bytes, 160k pps Trunking Mode: Supporting 230 Mbps bi-directional traffic at up to 350k pps, each way.
Management	HTTP/S Web Server, SNMP v1, v2c & v3, AAA RADIUS Secure User Login & Access Control Lists, SSH, Q-NET™ Navigator
Protocols	IPv4/IPv6, IEEE 802.1q /p VLAN support, Software Defined Network Support, NAT, DHCP, Network Time Protocol (NTP), sFlow Performance Metrics, Active Queue Management (AQM), MPEG over IP, OpenAMIP Protocol Support, Inter VLAN Routing Support with Virtual Routing & Forwarding
Advanced IP Features	Robust Header Compression (RFC 3095), Payload Compression, Dynamic Routing (RIP V1, V2; OSPF V2, V3; BGP V4), TCP Acceleration, AES-256 Encryption
DVB Features	ACM/VCM, DVB Encapsulation, GSE Encapsulation

Modulator Specifications

DVB-S2: QPSK, 8PSK & 16APSK DVB-S2X: QPSK, 8PSK, 8APSK-L 16APSK, 16APSK-L, 32APSK, 32APSK-L, 64APSK & 64APSK-L Options for Advanced Modulation: 128APSK, 256APSK and 256APSK-L
0 to -40dBm (950 to 2,150MHz)
DVB-S2: 20%, 25%, 35% DVB-S2X: 5%, 10%, 15%, 20%, 25%, 35%
Better than –55dBc/ 4kHz in-band (at 0dBm to –30dBm output)
Allows the 24V DC input power to be used to power a BUC via the Interfacility Link (IFL) (4A Max)
Via IFL cable; 10MHz \pm 0.01 ppm; 2dBm \pm 2dBm
Provides guaranteed throughput for priority traffic; supports Committed and Burst Information Rates. Stream classification by VLAN ID, IP address, IEEE 802.1p priority, Diffserv DSCP, & MPLS EXP

Demodulator Specifications

Demodulator	DVB-S2: QPSK, 8PSK & 16APSK DVB-S2X: QPSK, 8PSK, 8APSK-L 16APSK, 16APSK-L, 32APSK, 32APSK-L, 64APSK & 64APSK-L Options for Advanced Modulation: 128APSK, 256APSK and 256APSK-L
Enhanced Doppler	Frequency shift: up to \pm 700kHz; rate of change up to \pm 100kHz/s (symbol rate dependent)
Receive Filter Roll-off	DVB-S2: 20%, 25%, 35% DVB-S2X: 5%, 10%, 15%, 20%, 25%, 35%
Input Range	Minimum: -140 + 10 log (symbol rate) Maximum: -78 + 10 log (symbol rate)
LNB Voltage	Selectable 13V, 15V, 18V or 20V DC to LNB via IFL cable; maximum 0.5A

Interface, Mechanical and Environmental Specifications:

Traffic	4-port Gigabit Ethernet switch (RJ45 connectors; Interface used for IP traffic and M&C)	Mechanical	Size: 465 wide, 285 deep (excluding handles and connectors) x 42.2mm high. Weight: 2kg
IF Tx and Rx	L-band: 950 to 2,150MHz (resolution 1Hz) SMA connectors	Environmental	0°C to 50°C Operating Temperature; 95% relative humidity, non-condensing, FCC, CE and RoHS compliant, Safety: EN62368-1:2014 Edition 2,
Power Supply	90 to 264VAC, 1A @ 100V, 0.5A @240V, 47 to 63Hz, Fused, IEC Connector (live and neutral fused) or 24 to 48VDC, 7A @ 24V, 3.5A @ 48V		Emissions: EN55032:2015 Class B, Immunity: EN55035:2017

AXIOM-N Encryption

Comparing AXIOM-N to QFlex-400

Specification	AXIOM-N	QFlex-400
Data Rate	Tx: 345 Mbps Rx: 230 Mbps	345 Mbps
Symbol Rate	Tx: 100 Msps Rx: 100 Msps [1]	70 Msps
Modulation	DVB-S2X up to 256APSK	DVB-S2X up to 256APSK
RF Frequency Range	L: 950 to 2,150 MHz	IF: 50 to 180 MHz L: 950 to 2,450 MHz
RF Tx Power Range	L: 0 to -40 dBm	IF: 0 to -25 dBm L: +5 to -40 dBm (950 to 1,950 MHz) 0 to -40 dBm (1,950 to 2,150 MHz) 0 to -30 dBm (2,150 to 2,450 MHz)
RF Connector	N-type	N-type
PCMA Bandwidth	-	72 MHz
Display & Keypad Entry	-	Yes
Terrestrial Interface Slots	-	Choice of Two
Available WGS-Certified Models?	-	Yes
Available Encrypted Models?	Yes	Yes, optional TRANSEC
Ethernet M&C/ Traffic Ports	1 M&C, 3 Traffic	IP: 1 M&C, 3 Traffic
Size	1U chassis, 285mm deep excluding front panel handles and rear panel connectors and fans	1U chassis, 285mm deep excluding front panel handles and rear panel connectors and fans
PSU	90 to 264VAC, 1A @100V, 0.5A @240V, 47 to 63Hz Fused IEC connector (live and neutral fused)	90 to 264VAC, 1A @100V, 0.5A @ 240V or 24V DC option

[1] 85Msps @ 8PSK/8APSK, 64Msps @ 16APSK, 51Msps @ 32APSK, 43Msps @ 64APSK, 36Msps @ 128APSK, 32Msps @ 256APSK.

The Paradise Family of Secure SCPC Modems

Paradise SCPC Modems			Point- to-Point	Mesh	esh Point-to-MultiPoint, Star, Hybrid		Features of Note
					Hub	Remote Site	
Standard	1U 19" Rack	QFlex-400	✓			✓	PCMA+ enhanced carrier overlay availabl
		QMultiFlex-400	\checkmark	✓	\checkmark	✓	Optional Embedded Hub Canceller
		QFlex-400 P2MP	✓		0:0 :::::	1	Configured remote
		QubeFlex	\checkmark				Small Sat/LEO - support for CCSDS
		AXIOM-N (New)	✓			✓	IP-centric modem
Small Rack Mount Form Half Width Factor Rugged OEM Card		Q-Lite Half Width	✓		0.0	✓	Mountable side-by-side in 1U rack space
	AXIOM-C (New)	✓				Compact IP-centric modem	
	Rugged	Q-Lite Rugged	✓				IP65 weatherproof outdoor modem
		AXIOM-R (New)	✓			~	IP67 IP-centric modem
	OEM Card	Q-Lite Card	✓	- C		✓	For OEM integration
		AXIOM-X	\checkmark			✓	Our smallest modem

All modem models except QubeFlex are also available as **encrypted models**, capable of TCP/IP packet payload encryption using symmetric AES with 256-bit keys. Note that these models are export controlled.

Ordering: AXIOM-N Encryption

Standard Features	Description
$\overline{\mathbb{A}}$	100kbps to 2.048Mbps DVB-S2 CCM/ACM (EN 302 307-1) Modem, Supporting QPSK, 8PSK
	& 16APSK, 20%, 25% & 35% Roll off, with 4-port Gigabit Ethernet switch for M&C and traffic ;
	L-band operation 950 to 2,150MHz
	AUPC: Automatic Uplink Power Control
	Traffic Shaping: Supports CIR/BIR/priority settings for IP streams classified by IP address, Diffserv
	class, IEEE 802.1p priority tag, MPLS EXP field, and VLAN ID
	Dynamic Routing: RIP, OSPF and BGP
$\overline{\heartsuit}$	AES-256 Encryption: TCP/IP packet payload encryption using symmetric AES with 256-bit keys

Optional Features

 Advanced Modulation: 128APSK, 256APSK, 256APSK-L BUC Enable BUC PSU software feature to provide DC via the IFL to power a BUC. 4A Max at 24V supplied via the Modem PSU. Requires DC power option. Power Supply AC: 90 to 264VAC, 1A @ 100V, 0.5A @ 240V, 47 to 63Hz, Fused, IEC Connector (live and neutral fused) DC: 24 to 48VDC, 7A @ 24V, 3.5A @ 48V, required for use with Enable BUC PSU option AC Power Cord UK Select one if US EU 			
25Mbps: Extends 10Mbps operation to 25Mbps 100Mbps: Extends 25Mbps operation to 100Mbps 345Mbps: Extends 100Mbps operation to 345Mbps Extend Rx Data Rate 5Mbps: Extends base operation to 5Mbps 10Mbps: Extends 5Mbps operation to 10Mbps 25Mbps: Extends 10Mbps operation to 10Mbps 25Mbps: Extends 10Mbps operation to 25Mbps 100Mbps: Extends 25Mbps operation to 25Mbps 200Mbps: Extends 10Mbps operation to 230Mbps Add Advanced IP Features Compression: IP/UDP/TCP/RTP packet header compression (RFC 3095) plus Ethernet header compression; TCP/UDP packet payload compression using the Deflate algorithm (RFC 1951) Acceleration: Up to 10,000 concurrent accelerated TCP connections to 100Mbps subject to prevailing data rate limits DVB-S2X DVB-S2X CCM, ACM, VCM: OPSK, 8PSK, 8APSK, 16APSK, 32APSK & 64APSK Tx/Rx operation per EN 302 307-2. Includes 5%, 10%, 15%, 20%, 25% & 55% spectral roll-offs. Includes DVB features; ACM, VCM and DVB encapsulation. To 345/220Mbps subject to prevailing modem data rate limit Advanced Modulation: 128APSK, 256APSK, 256APSK, L BUC Enable BUC PSU software feature to provide DC via the IFL to power a BUC. 4A Max at 24V supplied via the Modem PSU. Requires DC power option. Power Supply AC: 90 to 264VAC, 1A @ 100V, 0.5A @ 240V, 47 to 63Hz, Fused, IEC Connector (live and neutral fused) DC: 24 to 48VDC, 7A @ 24V, 3.5A @ 48V, required for use with Ena	Extend Tx Data Rate	0	5Mbps: Extends base operation to 5Mbps
 100Mbps: Extends 25Mbps operation to 100Mbps 345Mbps: Extends 100Mbps operation to 345Mbps Extend Rx Data Rate 5Mbps: Extends base operation to 5Mbps 10Mbps: Extends 5Mbps operation to 10Mbps 25Mbps: Extends 10Mbps operation to 25Mbps 100Mbps: Extends 25Mbps operation to 25Mbps 100Mbps: Extends 100Mbps operation to 25Mbps 20Mbps: Extends 100Mbps operation to 230Mbps Add Advanced PFeatures Compression: IP/UDP/TCP/RTP packet header compression (RFC 3095) plus Ethernet header compression using the Deflate algorithm (RFC 1951) Acceleration: Up to 10,000 concurrent accelerated TCP connections to 100Mbps subject to prevailing data rate limits DVB-S2X DVB-S2X CCM, ACM, VCM: OPSK, 8PSK, 8APSK, 16APSK, 32APSK & 64APSK Tx/Rx operation per EN 302 307-2. Includes 5%, 10%, 15%, 20%, 25% & 35% spectral roll-offs. Includes DVB features; ACM, VCM and DVB encapsulation. To 345/230Mbps subject to prevailing modem data rate limit Advanced Modulation: 128APSK, 256APSK-L BUC Enable BUC PSU software feature to provide DC via the IFL to power a BUC. 4A Max at 24V supplied via the Modern PSU. Requires DC power option. Power Supply AC: 90 to 264VAC, 1A @ 100V, 0.5A @ 240V, 47 to 63Hz, Fused, IEC Connector (live and neutral fused) DC: 24 to 48VDC, 7A @ 24V, 3.5A @ 48V, required for use with Enable BUC PSU option AC Power Cord UK Select one if US AC Power Supply EU 		\bigcirc	10Mbps: Extends 5Mbps operation to 10Mbps
 345Mbps: Extends 100Mbps operation to 345Mbps Extend Rx Data Rate SMbps: Extends base operation to 5Mbps 10Mbps: Extends 5Mbps operation to 10Mbps 25Mbps: Extends 10Mbps operation to 25Mbps 100Mbps: Extends 100Mbps operation to 25Mbps 20Mbps: Extends 100Mbps operation to 25Mbps 20Mbps: Extends 100Mbps operation to 230Mbps Add Advanced Compression: IP/UDP/TCP/RTP packet header compression (RFC 3095) plus Ethernet header compression: IP/UDP/TCP/RTP packet header compression using the Deflate algorithm (RFC 1951) Acceleration: Up to 10,000 concurrent accelerated TCP connections to 100Mbps subject to prevailing data rate limits DVB-S2X DVB-S2X CCM, ACM, VCM: OPSK, 8PSK, 8APSK, 16APSK, 32APSK & 64APSK Tx/Rx operation per EN 302 307-2. Includes 5%, 10%, 15%, 20%, 25% & 35% spectral roll-offs. Includes DVB features; ACM, VCM and DVB encapsulation. To 345/230Mbps subject to prevailing modem data rate limit Advanced Modulation: 128APSK, 256APSK-L BUC Enable BUC PSU software feature to provide DC via the IFL to power a BUC. 4A Max at 24V supplied via the Modern PSU. Requires DC power option. Power Supply AC: 90 to 264VAC, 1A @ 100V, 0.5A @ 240V, 47 to 63Hz, Fused, IEC Connector (live and neutral fused) DC: 24 to 48VDC, 7A @ 24V, 3.5A @ 48V, required for use with Enable BUC PSU option AC Power Cord UK Select one if US AC Power Supply EU 		\bigcirc	25Mbps: Extends 10Mbps operation to 25Mbps
Extend Rx Data Rate SMbps: Extends base operation to SMbps 10Mbps: Extends 5Mbps operation to 10Mbps 25Mbps: Extends 10Mbps operation to 25Mbps 100Mbps: Extends 25Mbps operation to 25Mbps 230Mbps: Extends 10Mbps operation to 230Mbps Add Advanced IP Features Compression: IP/UDP/TCP/RTP packet header compression (RFC 3095) plus Ethernet header compression; TCP/UDP packet payload compression using the Deflate algorithm (RFC 1951) Acceleration: Up to 10,000 concurrent accelerated TCP connections to 100Mbps subject to prevailing data rate limits DVB-S2X DVB-S2X CCM, ACM, VCM: QPSK, 8PSK, 8APSK, 16APSK, 32APSK & 64APSK Tx/Rx operation per EN 302 307-2. Includes 5%, 10%, 15%, 20%, 25% & 35% spectral roll-offs. Includes DVB features; ACM, VCM and DVB encapsulation. To 345/230Mbps subject to prevailing modem data rate limit Advanced Modulation: 128APSK, 256APSK, 2 BUC Enable BUC PSU software feature to provide DC via the IFL to power a BUC. 4A Max at 24V supplied via the Modem PSU. Requires DC power option. Power Supply AC: 90 to 264VAC, 1A @ 100V, 0.5A @ 240V, 47 to 63Hz, Fused, IEC Connector (live and neutral fused) DC: 24 to 48VDC, 7A @ 24V, 3.5A @ 48V, required for use with Enable BUC PSU option AC Power Cord UK Select one if US		\bigcirc	100Mbps: Extends 25Mbps operation to 100Mbps
IOMbps: Extends 5Mbps operation to 10Mbps 25Mbps: Extends 10Mbps operation to 25Mbps 100Mbps: Extends 100Mbps operation to 25Mbps 230Mbps: Extends 100Mbps operation to 230Mbps Add Advanced IP Features Compression: IP/UDP/TCP/RTP packet header compression (RFC 3095) plus Ethernet header compression using the Deflate algorithm (RFC 1951) Acceleration: Up to 10,000 concurrent accelerated TCP connections to 100Mbps subject to prevailing data rate limits DVB-S2X DVB-S2X CCM, ACM, VCM: QPSK, 8PSK, 8APSK, 16APSK, 32APSK & 64APSK Tx/Rx operation per EN 302 307-2. Includes 5%, 10%, 15%, 20%, 25% & 35% spectral roll-offs. Includes DVB features; ACM, VCM and DVB encapsulation. To 345/230Mbps subject to prevailing modem data rate limit BUC Enable BUC PSU software feature to provide DC via the IFL to power a BUC. 4A Max at 24V supplied via the Modem PSU. Requires DC power option. Power Supply AC: 90 to 264VAC, 1A @ 100V, 0.5A @ 240V, 47 to 63Hz, Fused, IEC Connector (live and neutral fused) DC: 24 to 48VDC, 7A @ 24V, 3.5A @ 48V, required for use with Enable BUC PSU option AC Power Cord US Select one if US AC Power Supply EU		\bigcirc	345Mbps: Extends 100Mbps operation to 345Mbps
 25Mbps: Extends 10Mbps operation to 25Mbps 100Mbps: Extends 25Mbps operation to 100Mbps 230Mbps: Extends 100Mbps operation to 230Mbps Add Advanced Compression: IP/UDP/TCP/RTP packet header compression (RFC 3095) plus Ethernet header compression; TCP/UDP packet payload compression using the Deflate algorithm (RFC 1951) Acceleration: Up to 10,000 concurrent accelerated TCP connections to 100Mbps subject to prevailing data rate limits DVB-S2X DVB-S2X CCM, ACM, VCM: QPSK, 8PSK, 8APSK, 16APSK, 32APSK & 64APSK Tx/Rx operation per EN 302 307-2. Includes 5%, 10%, 15%, 20%, 25% & 35% spectral roll-offs. Includes DVB features; ACM, VCM and DVB encapsulation. To 345/230Mbps subject to prevailing modem data rate limit Advanced Modulation: 128APSK, 256APSK, 256APSK-L BUC Enable BUC PSU software feature to provide DC via the IFL to power a BUC. 4A Max at 24V supplied via the Modem PSU. Requires DC power option. Power Supply AC: 90 to 264VAC, 1A @ 100V, 0.5A @ 240V, 47 to 63Hz, Fused, IEC Connector (live and neutral fused) DC: 24 to 48VDC, 7A @ 24V, 3.5A @ 48V, required for use with Enable BUC PSU option AC Power Cord UK Select one if US AC Power Supply EU 	Extend Rx Data Rate	\bigcirc	5Mbps: Extends base operation to 5Mbps
 100Mbps: Extends 25Mbps operation to 100Mbps 230Mbps: Extends 100Mbps operation to 230Mbps Add Advanced Compression: IP/UDP/TCP/RTP packet header compression (RFC 3095) plus Ethernet header compression; TCP/UDP packet payload compression using the Deflate algorithm (RFC 1951) Acceleration: Up to 10,000 concurrent accelerated TCP connections to 100Mbps subject to prevailing data rate limits DVB-S2X DVB-S2X CCM, ACM, VCM: QPSK, 8PSK, 8APSK, 16APSK, 32APSK & 64APSK Tx/Rx operation per EN 302 307-2. Includes 5%, 10%, 15%, 20%, 25% & 35% spectral roll-offs. Includes DVB features; ACM, VCM and DVB encapsulation. To 345/230Mbps subject to prevailing modem data rate limit Advanced Modulation: 128APSK, 256APSK-L BUC Enable BUC PSU software feature to provide DC via the IFL to power a BUC. 4A Max at 24V supplied via the Modem PSU. Requires DC power option. Power Supply AC: 90 to 264VAC, 1A @ 100V, 0.5A @ 240V, 47 to 63Hz, Fused, IEC Connector (live and neutral fused) DC: 24 to 48VDC, 7A @ 24V, 3.5A @ 48V, required for use with Enable BUC PSU option AC Power Cord UK Select one if US AC Power Supply EU 		\bigcirc	10Mbps: Extends 5Mbps operation to 10Mbps
 230Mbps: Extends 100Mbps operation to 230Mbps Add Advanced IP Features Compression: IP/UDP/TCP/RTP packet header compression (RFC 3095) plus Ethernet header compression; TCP/UDP packet payload compression using the Deflate algorithm (RFC 1951) Acceleration: Up to 10,000 concurrent accelerated TCP connections to 100Mbps subject to prevailing data rate limits DVB-S2X DVB-S2X CCM, ACM, VCM: QPSK, 8PSK, 8APSK, 16APSK, 32APSK & 64APSK Tx/Rx operation per EN 302 307-2. Includes 5%, 10%, 15%, 20%, 25% & 35% spectral roll-offs. Includes DVB features; ACM, VCM and DVB encapsulation. To 345/230Mbps subject to prevailing modern data rate limit Advanced Modulation: 128APSK, 256APSK, 256APSK-L BUC Enable BUC PSU software feature to provide DC via the IFL to power a BUC. 4A Max at 24V supplied via the Modern PSU. Requires DC power option. Power Supply AC: 90 to 264VAC, 1A @ 100V, 0.5A @ 240V, 47 to 63Hz, Fused, IEC Connector (live and neutral fused) DC: 24 to 48VDC, 7A @ 24V, 3.5A @ 48V, required for use with Enable BUC PSU option AC Power Cord UK Select one if US AC Power Supply EU 		\bigcirc	25Mbps: Extends 10Mbps operation to 25Mbps
Add Advanced IP Features Compression: IP/UDP/TCP/RTP packet header compression (RFC 3095) plus Ethernet header compression; TCP/UDP packet payload compression using the Deflate algorithm (RFC 1951) Acceleration: Up to 10,000 concurrent accelerated TCP connections to 100Mbps subject to prevailing data rate limits DVB-S2X DVB-S2X CCM, ACM, VCM: QPSK, 8PSK, 8APSK, 16APSK, 32APSK & 64APSK Tx/Rx operation per EN 302 307-2. Includes 5%, 10%, 15%, 20%, 25% & 35% spectral roll-offs. Includes DVB features; ACM, VCM and DVB encapsulation. To 345/230Mbps subject to prevailing modem data rate limits BUC Enable BUC PSU software feature to provide DC via the IFL to power a BUC. 4A Max at 24V supplied via the Modem PSU. Requires DC power option. Power Supply AC: 90 to 264VAC, 1A @ 100V, 0.5A @ 240V, 47 to 63Hz, Fused, IEC Connector (live and neutral fused) DC: 24 to 48VDC, 7A @ 24V, 3.5A @ 48V, required for use with Enable BUC PSU option AC Power Cord Select one if UK EU EU		\bigcirc	100Mbps: Extends 25Mbps operation to 100Mbps
IP Features compression; TCP/UDP packet payload compression using the Deflate algorithm (RFC 1951) Acceleration: Up to 10,000 concurrent accelerated TCP connections to 100Mbps subject to prevailing data rate limits DVB-S2X DVB-S2X CCM, ACM, VCM: QPSK, 8PSK, 8APSK, 16APSK, 32APSK & 64APSK Tx/Rx operation per EN 302 307-2. Includes 5%, 10%, 15%, 20%, 25% & 35% spectral roll-offs. Includes DVB features; ACM, VCM and DVB encapsulation. To 345/230Mbps subject to prevailing modem data rate limit Advanced Modulation: 128APSK, 256APSK, 256APSK-L BUC Enable BUC PSU software feature to provide DC via the IFL to power a BUC. 4A Max at 24V supplied via the Modem PSU. Requires DC power option. Power Supply AC: 90 to 264VAC, 1A @ 100V, 0.5A @ 240V, 47 to 63Hz, Fused, IEC Connector (live and neutral fused) DC: 24 to 48VDC, 7A @ 24V, 3.5A @ 48V, required for use with Enable BUC PSU option AC Power Cord UK Select one if US AC Power Supply EU		\bigcirc	230Mbps: Extends 100Mbps operation to 230Mbps
prevailing data rate limits DVB-S2X DVB-S2X CCM, ACM, VCM: QPSK, 8PSK, 8APSK, 16APSK, 32APSK & 64APSK Tx/Rx operation per EN 302 307-2. Includes 5%, 10%, 15%, 20%, 25% & 35% spectral roll-offs. Includes DVB features; ACM, VCM and DVB encapsulation. To 345/230Mbps subject to prevailing modem data rate limit Advanced Modulation: 128APSK, 256APSK, 256APSK-L BUC Enable BUC PSU software feature to provide DC via the IFL to power a BUC. 4A Max at 24V supplied via the Modem PSU. Requires DC power option. Power Supply AC: 90 to 264VAC, 1A @ 100V, 0.5A @ 240V, 47 to 63Hz, Fused, IEC Connector (live and neutral fused) DC: 24 to 48VDC, 7A @ 24V, 3.5A @ 48V, required for use with Enable BUC PSU option AC Power Cord UK Select one if US AC Power Supply EU		0	
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supplied via the Modem PSU. Requires DC power option. Power Supply AC: 90 to 264VAC, 1A @ 100V, 0.5A @ 240V, 47 to 63Hz, Fused, IEC Connector (live and neutral fused) DC: 24 to 48VDC, 7A @ 24V, 3.5A @ 48V, required for use with Enable BUC PSU option AC Power Cord UK Select one if US AC Power Supply EU		\bigcirc	Advanced Modulation: 128APSK, 256APSK, 256APSK-L
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option is selected O Australia		0	Australia

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