

Features

- DVB-S2 with Adaptive Coding and Modulation on the forward channel
- Adaptive coding on the return channel
- MF/TDMA return channel with Aloha diversity
- Supports unicast and multicast IP traffic
- Software and configuration updates via download from the NOC
- Implements Performance Enhancement Proxy (PEP) software to accelerate throughput performance by optimizing the TCP transmission over the satellite, delivering superior user experience and link efficiency
- Implements TurboPage® software to accelerate HTTP traffic for fast browser access
- Quality of Service features include: IQoS (Inbound Quality of Service), bi-directional DSCP, and outbound bandwidth management.
- Bi-directional data compression
- Configuration, status monitoring, and commissioning via the NOC
- Acts as a local router providing:
 - Static and dynamic addressing
 - DHCP server or relay
 - DNS caching
 - Full RIPV2 and BGP routing support
 - Multicasts to the LAN by using IGMP
 - NAT/PAT
 - End-to-end VLAN support (802.1P, 802.1Q)
 - Firewall support through integrated access control lists
- Throughput:
 - At least 45 Mbps of multicast/streaming traffic, or
 - At least 4 Mbps of FTP traffic, or
 - At least 2 Mbps of HTTP accelerated traffic, or
 - At least 10 Mbps of UDP traffic, or
 - Any combination of the above with proportional performance

Technical Specifications

Physical Interfaces

One 10/100BaseT Ethernet LAN RJ45 port

Satellite & Antenna Specifications

Outbound transmission format:	DVB-S2
Information Rate: (Receive or Outbound Channel)	Up to 121 Mbps
Information Rate: (Transmit or Inbound Channel)	Up to 3.2 Mbps
Symbol Rate (Receive):	1 to 45 Msps (in 1 Msps steps)
Symbol Rate (Transmit):	256, 512, 1024, 2048 ksps
Encoding (Receive):	DVB-S2 LDPC/BCH
Encoding (Transmit):	TurboCode FEC 1/2, 2/3, and 4/5
Frequency Range:	Ka-/Ku-band
Modulation (Receive):	QPSK, 8PSK, 16APSK
Modulation (Transmit):	OQPSK
Bit Error Rate (Receive):	10 ⁻¹⁰ or better
Bit Error Rate (Transmit):	10 ⁻⁷ or better
Antenna:	74 cm, 89 cm, 98 cm, 120 cm, 180 cm
Radio:	1 and 2 watt Ka- or Ku-band

Mechanical & Environmental

Weight:	1.6 lb (.73 kg)
Dimensions:	8.0" H x 1.6" W x 9.0" D (20.3 cm H x 4.1 cm W x 22.9 cm D)
Operating Temperature:	0° C to 50° C
Input Power: 90 to 264 VAC:	50 to 60 Hz
DC Power Supply (Optional):	12 to 24 VDC

- Remote terminal management via the Hughes Vision® Network Management System or Unified Element Manager and SNMP
- Universal power supply supports international voltage ranges and frequencies and has a detachable power cord
- User-friendly LED display indicates terminal operational status

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