

Network Configuration

Network Topology	Star/SCPC
Multiple Access	TDM (Downstream) D-TDMA (Deterministic TDMA) - Upstreams Multi-Frequency TDMA (Upstream)
Symbol Rates	Outroute: 64 Ksps up to 5.75 Msps Inroute: 64 Ksps up to 2.875 Msps
Modulation	QPSK
IP Data Rates	Outroute: 128kbps – 18 Mbps Inroute: 128Kbps – 8.4 Mbps (Max. of 1 Mbps @ 0.66 FEC and 4.2 Mbps @ 0.793 FEC)
FEC	Outroute: TPC Rate 0.793 or TPC Rate 0.495 Inroute: TPC Rate 0.793 or TPC Rate 0.66
E_b/N_o	4.0 E_b/N_o for 10^{-9} Quasi Error Free @ 0.495 FEC 4.6 E_b/N_o for 10^{-9} Quasi Error Free @ 0.793 FEC 5.4 E_b/N_o for 10^{-9} Quasi Error Free @ 0.66 FEC

Interfaces

SatCom Interfaces	TxIF: Type-F, 950 - 1700 MHz, Composite Power +7dBm / -35dBm RxIF: Type-F, 950 - 1700 MHz, Composite Power -5dBm / -65dBm TVRO: Type-F, 950 - 1700 MHz
Available BUC Power (IFL)	+24V @ 3.2 Amps (Nominal, Typically up to a 5W BUC)
Available LNB Power (IFL)	+19.5V (Nominal)
10 Mhz Reference	Available
Data Interfaces	LAN: RJ45, 10/100 Ethernet, 802.1q VLAN RS-232: RJ45 (for GPS or Console connection or Antenna Pointing)
Protocols Supported	TCP, UDP, ICMP, IGMP, RIP Ver2, Static Routes, NAT, DHCP, DHCP Helper, DNS Caching
Security	3DES Link Encryption (Optional)
Traffic Engineering	QoS (CBWFQ), CIR (Static and Dynamic), Rate Limiting, Bandwidth on Demand

Mechanical/Environmental

Size	W 11.75 in x D 10.50 in x H 1.75 in (W 29.9 cm x D 26.7 cm x H 4.5 cm)
Weight	7 lbs (Including Power Supply) [3.18 Kg]
Operating Temperature	0° to 50°C (+32° to +122°F) at Sea Level 0° to 45°C (+32° to +113°F) at 10000 Feet
Input Voltage	100-240 VAC Universal Input, 50-60 Hz, 2A Max @ 100VAC