



### **Network Configuration**

Network Topology	Star (TDM/TDMA with MF-TDMA), Star/Mesh, SCPC
Symbol Rates	Downstream: 64 ksps up to 11.5 Msps Upstream: 64 ksps up to 2.875 Msps (5.75* Msps)
Modulation	Downstream: QPSK (BPSK*, 8PSK*) Upstream: QPSK (BPSK*)
IP Data Rates	Downstream: 128 kbps – 18 Mbps Upstream: 64 kbps – 4.2 Mbps (8.4* Mbps)
FEC	Downstream: TPC Rate 0.879*, 0.793, 0.533 Upstream: TPC Rate 0.793, 0.66, 0.533 (Other FEC Rates will be available in the future)
$E_b/N_o$	4.2 $E_b/N_o$ for $10^{-9}$ Quasi Error Free @ 0.533 FEC 4.6 $E_b/N_o$ for $10^{-9}$ Quasi Error Free @ 0.793 FEC 5.1 $E_b/N_o$ for $10^{-9}$ Quasi Error Free @ 0.879 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 or +48V (Supports 8W Ku or 10W C BUC)
Available LNB Power (IFL)	+19.5V (Nominal)
10 Mhz Reference	Available
Data Interfaces	LAN: Single 10/100 and 8-Port 10/100 Switch, 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, Local DNS Caching, cRTP, ACLs
Security	AES or 3DES Link Encryption (Optional) (Built-in IPsec Support* [will require Model 1200 at the HQ])
Traffic Engineering	QoS (CBWFQ), Minimum CIR, CIR (Static and Dynamic), Rate Limiting, Bandwidth on Demand
Other Features	Built-in Automatic Uplink Power, Frequency and Timing Control Adaptive Inbound Channel*

### **Mechanical/Environmental**

Size	W 17.5 in x D 15.5 in x H 1.72 in (W 44.45 cm x D 39.37 cm x H 4.37 cm)
Weight	8 lbs (Including Power Supply) [3.63 Kg]
Operating Temperature	0° to 60°C (+32° to +140°F) at Sea Level
Input Voltage	100-240 VAC Universal Input, 50-60 Hz, 4A Max @ 100VAC

\* - Planned for future release. Specifications subject to change without notice