

## Network Configuration

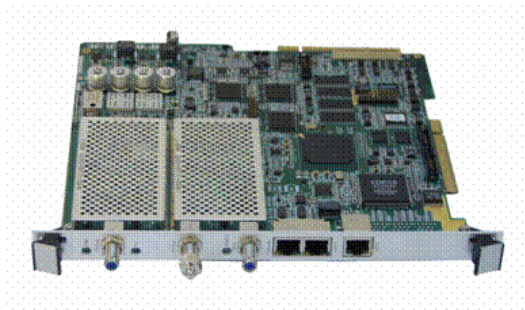
Modem	<u>One</u> Modulator (Transmit one downstream carrier) <u>One</u> Demodulator (Receive one upstream carrier)
Symbol Rates	Outroute: 64 Ksps up to 11.5 Msps Inroute: 64 Ksps up to 2.875 Msps (5.75 Msps*)
Modulation	Downstream: QPSK (BPSK*, 8PSK*) Upstream: QPSK (BPSK*)
IP Data Rates	Downstream: 128 kbps – 18 Mbps Upstream: 64 kbps – 4.2 Mbps
FEC	Downstream: TPC Rate 0.879*, 0.793, 0.533, 0.431 Upstream: TPC Rate 0.793, 0.66, 0.533, 0.431 (Other FEC Rates will be available in the future)
E <sub>b</sub> /N <sub>o</sub>	4.2 E <sub>b</sub> /N <sub>o</sub> for 10 <sup>-9</sup> Quasi Error Free @ 0.533 FEC 4.6 E <sub>b</sub> /N <sub>o</sub> for 10 <sup>-9</sup> Quasi Error Free @ 0.793 FEC 5.1 E <sub>b</sub> /N <sub>o</sub> for 10 <sup>-9</sup> Quasi Error Free @ 0.879 FEC 5.4 E <sub>b</sub> /N <sub>o</sub> for 10 <sup>-9</sup> Quasi Error Free @ 0.66 FEC

## Interfaces

SatCom Interfaces	TxIF: Type-F, 950 - 1700 MHZ, +7dBm / -35dBm RxIF: Type-F, 950 - 1700 MHZ, Composite Power -5dBm / -65dBm
Data Interfaces	LAN: RJ-45 Two 10/100 RS-232: RJ45 (Console connection)

## Mechanical/Environmental

Redundancy	Software Controlled, Hot-swappable
Weight	1.2 lbs (0.6 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



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



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