



## SPECIFICATIONS

### Satellite IP Terminal

#### > Return Channel

**Format:** MF-TDMA

**Symbol Rates:** 156 KSym/s, 312 KSym/s, 625 KSym/s, 1.25MSym/s

**Transmit IF Frequency:** 950-1450 MHz

**Transmit IF Signal:** -10 to -25 dBm in 0.125 steps

**Turbo Coding:** DVB-RCS compliant

**Modulation:** QPSK, BPSK

#### > Outbound Channel from Hub

**Format:** DVB/MPEG-2 Transport Stream (ISO/IEC 13818) DVB Multi-Protocol Encapsulation (MPE) for IP Data PCR Insertion

**Symbol Rates:** 5-42.5 MSym/s

**FEC:** DVB Compliant R/S (204, 188) and Convolution

(R= 1/2, 2/3, 3/4, 5/6, 7/8)

**BER:** Quasi-Error Free per DVB standard

**Modulation:** QPSK or 8PSK

**Receive IF Frequency:** 950-2150 MHz

**Input Power Range:** -60 to -20 dBm

#### > Physical Interfaces

**L-band Transmit and Receive:** (2) Type F, 75 ohm

**Network:** (1) 10/100 Base T Ethernet (RJ-45)

#### > RF

**Antenna Diameters:** 0.96M, 1.2M, 1.8M, 2.4M

**ODU Power:** 0.5W, 1W, 2W, 4W, 5W

**ODU Operating Temperature:** -40°C to 55°C

#### > IDU Mechanical/ Environmental

**Dimensions:** 1U High, 12" Width, 8" Depth

**Power:** 110/220 VAC Auto-sensing, Auto-ranging

**Temperature:** 0° to 40°C Operating; -20° to 70°C storage

**Humidity:** 95% relative humidity non condensing at 0° to 40°C operating; 90% relative humidity non-condensing at 65° C non-operating

**Susceptibility:** EN50082-1; 1997

**EMI:** FCC Part 15, EN50022, CE

**Safety:** UL/cUL 1950; EN60950; TUV; VDE



### Hub

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### Network Management and Control

**Network Management System (NMS):** Java Web-based, Standard PC

**Network Control Center (NCC):** Located at Hub; Redundant

SUN Solaris Workstation; SNMP Agent

### System Performance

**TCP Acceleration:** 10 Mbps throughput

**Scalability:** 10,000 nodes with single Hub/NCC; 100,000 nodes with multiple Hub/NCC

**Protocols:** TCP/IP, UDP/IP, IGMP, RIP1&2, IP QoS support

**Security:** Optional