



# Broadband Two-way Satellite Internet ?

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## Two way VSAT Satellite Internet Equipment Specifications. Professional and Corporate Package.

### Terminal satellite IP

#### 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)

#### Radiofrequency

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  
95% humidity non condensing at 0° to 40°C operating  
90% 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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FEC: DVB Compliant R/S (204, 188) and Convolution (R=  
1/2, 2/3, 3/4, 5/6, 7/8)  
Modulation: QPSK or 8PSK

#### Return Channel

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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