HUGHES
An EchoStar Company

DATASHEET

HT2000L Multi Path Terminal

- Broadband speeds over Wireless
- Satellite and LTE capable
- Path Diversity for WAN resiliency

Overview

The HT2000L Multi Path Terminal delivers high speed **satellite and LTE connectivity in a single hardware device.** Providing high performance transport options for application routing and network failover at remote site locations.

The HT2000L Multi Path Terminal incorporates the Hughes market leading JUPITER System satellite technology with built-in LTE communication capabilities. The HT2000L can be configured to transmit over satellite, LTE, or both transports simultaneously. Multiple transports in a single hardware terminal simplifies network design and provides a more cost-efficient way to enable robust branch communications.

Utilizing advanced DVB-S2 transmission techniques in conjunction with Low Density Parity Coding (LDPC) and Adaptive Inroute Selection (AIS) return channel capabilities, the HT2000L satellite transport delivers exceptional performance and reliability. Employing different Quality-of-Service (QoS) and optimization technology, the satellite transport can deliver up to 200 Mbps of throughput.

The HT2000L cellular transport utilizes a carrier certified CAT 4 modem to provide LTE connectivity. The device employs an external MIMO antenna for optimal placement to maximize signal reception. Supporting SIM-based auto-carrier selection, the terminal can deliver up to 150 Mbps of throughput.

Why HT2000L for your network?

For those branch sites on your network that are underserved by wired broadband (e.g. DSL, Cable, Fiber, etc.) the HT2000L terminal gives you two high speed transport options. For those locations that have access to a terrestrial connection, now you can provide secondary (and tertiary) transports to increase network reliability.

The HT2000L Multi Path Terminal is an ideal solution for distributed networks in enterprise, franchise and government organizations.

Specifications

Interfaces

- 1x 10/100/1000 Satellite Interface (RJ45)
- 1x 10/100/1000 Cellular Interface (RJ45)
- 1x USB Port
- 1x SIM 3FF Slot
- 2x Cellular Antenna Connection
- 1x Satellite Antenna Connection
- 1x Power Connection

Embedded Satellite Modem

Forward Channel

- Advanced DVB-S2 with Adaptive Coding and Modulation (ACM)
- Frequency: Ka-band or Ku-band
- Modulation: QPSK, 8PSK, 16APSK, 32APSK
- Encapsulation: GSE
- Symbol Rates: Up to 235 Msps

Return Channel

- MF-TDMA
- LDPC FEC with efficient variable block/burst sizes
- OQPSK modulation
- Symbol Rates: 256 ksps to 8 Msps

Embedded Cellular Modem

- LTE FDD Cat 4, 3GPP release 9 compliant
- Carriers Supported: NA Verizon, AT&T
- Bands: 4G LTE 700(B12/B13), 850(B5), AWS1700(B4), 1900(B2), UMTS/HSPA+ 850(B5), 1900(B2)

Dimensions and Power

- Weight: 1.25 lbs (0.57 kg)
- Size: 7.28" H x 2.77" W x 5.82" D (18.49cm H x 7.03 cm W x 14.79 cm D)
- Power: 100-240 VAC; 50-60 Hz; 100 W
- External Power Supply with detachable cord
- Form Factor: Desktop

External Elements

Satellite

- Radio: Hughes single-IFL Radio (Ka-band or Ku-band)
- Outdoor Antennas: 74 cm, 90 cm, 98 cm, 120 cm
- Typical IFL Cable Type: Single RG-6, 75-ohm, F-type connector
- Typical IFL Cable Length: up to 300' (100m)

Cellular

- External LTE MIMO Antenna
- Typical External Cable Length: 6' (2m)
- Exterior (outdoor) option available

Operating Environment and Certifications

- Operating Temperature: 32° F to 122° F (0° C to 50° C)
- Humidity: 0% - 90% non-condensing
- Altitude: Up to 15,000 ft (4,572m)
- Cooling: Convection
- Safety: UL/CSA/EN 60950
- EMC: FCC Part 15 class B, ICES-003
- RoHS Compliant
- Cellular Carrier Certified

JUPITER™ SYSTEM

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