

Mulliman

DATASHEET

HT2550 IN - Satellite Router

As part of the market-leading Hughes JUPITER™ System, the HT2550 IN is the powerful, next-generation satellite terminal featuring support for the wideband DVB-S2X forward channel, delivering the industry's best efficiency. The return channel uses powerful and advanced Low Density Parity Coding (LDPC) in conjunction with Adaptive Inroute Selection (AIS) for industry-best performance. The HT2550 IN features best-in-class throughput performance, delivering up to 200 Mbps of throughput and is capable of supporting bandwidth- intensive, simultaneous multimedia applications.

The HT2550 IN is a high-performance satellite router designed to be installed in an industry standard 19" equipment rack suitable for data center environments, most enterprise facilities and carrier facilities. The compact design consumes only one rack space (1U rack mount) and supports a variety of power options. The HT2550 IN comes equipped with 2 GigE LAN ports.

The HT2550 IN supports integrated conditional access, hardware based AES-256 Encryption (bi-directional) and X.509 remote terminal authentication.

The HT2550 IN router can be used for backhauling 4G/LTE cell sites. The S1-U interface between the eNodeB and the EPC uses GPRS Tunneling Protocol (GTP) to encapsulate the user traffic. To minimize the traffic carried on the satellite link, the HT 2550 IN router strips off the GTP header information and reconstitutes it at the Gateway. The HT 2550 IN supports 7,500 simultaneous TCP connections for 4G/LTE backhaul applications.



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Technical Specifications

Forward Channel

- DVB-S2X with Adaptive Coding and Modulation (ACM)
- Frequency: C-band, Ku-band, and Ka-band
- Modulation: QPSK, 8PSK, 16APSK, 32APSK, 64APSK
- **Encapsulation: GSE**
- Symbol rates: Up to 235 Msps

Return Channel

- MF-TDMA, TDM (SCPC Dedicated Carrier)
- LDPC FEC with efficient variable block/burst sizes
- QPSK, 8PSK, 16APSK modulation
- Symbol rate from 256 ksps to 12 Msps (MF-TDMA)
- TDM Return Channel Symbol Rate: 1Msps to 50Msps

Network Interfaces

2 GigE LAN ports

Power Supply Options

- AC Input: 90-264 VAC
- DC Input: +24 V and -48 V

Mechanical and Environmental

- Weight: 8.2 lbs (3.72 kg)
- Size: 19" (w) x 10.5" (d) x 1.75" (h)
- Operating temperature: -0° C to +50° C

Other

- Radio specifications:
 - L-band TX: 950-1825 MHz, RX: 950-2150 MHz
 - Available in C-, Ku-, or Ka-band

Security

- **Bi-Directional AES-256 Encryption**
- X.509 remote terminal authentication

Regulatory

- Safety: UL/CSA/EN 60950-1
- EMC: FCC Part 15 class B, ICES-003
- **RoHS-2** compliant

Networking Features:

- Dual stack IPv4/IPv6
- Static and Dynamic
- Addressing
- BGP Routing Support
- Policy Based Routing
- NAT/PAT
- RIPv2, RIPNG
- VLAN tagging
- DHCP-V6 Relay

- VRRP
- SIP Call Proxy
- Advanced Web
- Acceleration
- Layer 2

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For sales gueries, please contact kam@hughes.in or marketing@hughes.in

- Access Control List
- (ACL)
- DNS Caching