

## High-performance, scalable broadband satellite modem

### SPACEWAY™

The HUGHES SPACEWAY™ 3 satellite system provides high-speed broadband services to consumers, small- to medium-sized businesses, government agencies, and large enterprises in North America. A next-generation, Ka-band broadband satellite system, SPACEWAY 3 is the world's first commercial satellite to employ on-board traffic switching and routing capability. Combined with many other advances in satellite technology, such as 10 Gbps overall capacity, fast packet switching, and dynamic beam forming, SPACEWAY 3 ushers in a new world of bandwidth-on-demand satellite communication services with full-mesh connectivity.

The HN9000 is Hughes' high-performance broadband modem designed to deliver HughesNet® Internet access services to consumers, small-to-medium businesses, and government agencies in North America utilizing the unique high-capacity SPACEWAY 3 satellite system. The HN9000 deliver speeds up to 2 Mbps on the uplink and up to 5 Mbps on the downlink based on the service plan chosen.

Operating as an IP modem, the HN9000 incorporates several advanced features to increase throughput performance and maximize the user's experience and satisfaction. Performance Enhancing Proxy (PEP) accelerates all TCP IP applications and increases overall throughput over satellite channels, while the unique Hughes TurboPage® feature provides HTTP acceleration for lightning-fast browser performance.



## Features

- Implements PEP software to accelerate the throughput performance by optimizing the TCP transmission over the satellite, delivering superior user experience and link efficiency
- Delivers high-performance Web access via TurboPage technology
- Bidirectional data compression
- Configuration, status monitoring, and commissioning
- User-friendly LED display indicating terminal operational status
- Operates as a local router providing:
  - Static and dynamic addressing
  - DHCP server or relay
  - DNS caching
  - NAT/PAT

## Technical Specifications

### Physical Interfaces

10/100BaseT Ethernet LAN RJ-45 port

### Mechanical and Environmental Specifications

Weight (IDU): 4.8 lbs (2.18 kg)

Dimensions (IDU): 11.5" W x 1.8" H x 11" D  
(29.21 cm W x 4.7 cm H x 27.94 cm D)

Operating temperature:

IDU: +5° C to +40° C

ODU: -30° C to +55° C

Input Power: 90–140 Vac; 57–63 Hz

### Satellite and Antenna Specifications

Information Rate (Downlink): 440 Mbps

Information Rate (Uplink): 128, 512, 2048 kbps

Frequency Range: Ka-band

Modulation (Downlink): QPSK

Modulation (Uplink): CE-OQPSK

Antenna: 74 cm, 98 cm, 120 cm, 180 cm

Radio: 1, 2, and 4 watt

For additional information, please visit [www.hughes.com](http://www.hughes.com).



HughesNet encompasses all broadband solutions and managed services from Hughes, bridging the best of satellite and terrestrial technologies. Hughes broadband satellite products are based on global standards approved by TIA, ETSI, and ITU, including IPoS (Interent Protocol over Satellite), RSM-A (Regenerative Satellite Multimedia), and GMR-1 (Global Mobile Radio).

[www.hughes.com](http://www.hughes.com)