

Hughes 9502 BGAN M2M Terminal

HUGHES

The world's most cost-effective, all-IP BGAN machine-to-machine satellite terminal with exceptionally low power consumption


inmarsat

The Hughes 9502 IP satellite terminal provides reliable connectivity over the Inmarsat Broadband Global Area Network (BGAN) for IP SCADA and machine-to-machine (M2M) applications. The Hughes terminal delivers affordable, global, end-to-end IP data connectivity enabling applications in industry sectors such as environmental monitoring, SmartGrid, pipeline monitoring, compressor monitoring, well site automation, video surveillance, and out-of-band management to primary site communications.



The exceptional low power consumption (<1 W idle) of the Hughes 9502 makes it possible to provide end-to-end IP connectivity to sites that are off the grid. This breakthrough provides end-to-end IP connectivity to power-challenged locations that rely upon solar-battery arrays involving sensitive power budgets.

The Hughes 9502 includes 10 meters of RF cabling, granting the user freedom to position the antenna remotely and away from the transceiver in complex installations while securing the SIM card inside a premise or enclosure to better protect against unauthorized use, theft, and vandalism.

Future firmware releases would be uncommon, meanwhile any such modem update will qualify for no charge over-the-air (OTA) upgrades saving customers time and money.

At less than a penny or two per kilobyte, customers cannot find better value from comparable technologies.



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- Main Features
 - No connection charge with BGAN M2M (normal BGAN charge is 100K)
 - Minimum CDRs only 1K (normal BGAN charge is 10K)
 - No charge over-the-air modem software upgrades
 - Exclusive airtime packages unique to the Hughes 9502
 - Integrated IP Watchdog to ensure “always-on” network connectivity. No manual intervention required to recover from an outage
 - Auto-on/auto-context activation automatically restores power and PDP connection to itself following loss of power and/or IP connection
 - Remote control via SMS—remote management platform for command and control to the terminal using SMS, including configuration, debugging, and access to Web interface
 - Ultra-low power consumption
 - Transmit: < 20 W
 - Narrow beam w/o transmit: 3 W
 - Idle (regional beam): < 1 W
 - Off (wake on packet): < 10 mW (@ 12 Vdc)
 - Off (wake on packet): < 30 mW (@ 24 Vdc)
 - Off (GPIO control): < 3 mW (@ 12 Vdc)
 - Off (GPIO control): 0
 - Relay mode passes WAN IP address to the connected RTU
 - Security enhancements with extended layers of embedded security options
 - Basic installation; no PC required
 - Outdoor unit (ODU) can be pole mounted
 - Indoor unit (IDU) is housed inside building or the remote terminal unit (RTU)
 - Built-in GPS receiver
- Interfaces
 - Ethernet connection (RJ45)
 - USB—Type B for connection to configuration PC
 - RS-232 (DB9) to external NMEA 0183-based GNSS device (e.g., GLONASS receiver)
 - TNC connection on the IDU to the external antenna
- Package Contents
 - Hughes 9502 BGAN M2M Terminal IDU
 - 10 meters RF antenna cable
 - External antenna (ODU)
- Accessories
 - Modem (IDU) strap
 - Antenna basic fixed mount kit
 - Antenna azimuth elevation bracket
 - Extended warranty options

Technical Specifications

Satellite Transmit Frequency	1626.5–1675 MHz
Satellite Receive Frequency	1518–1559 MHz
GPS Frequency	1574.42–1576.42 MHz
IDU Weight	< 1.5 Kg
IDU Dimensions	150 mm x 200 mm x 45 mm
ODU Weight	< 1.9 Kg (excludes mount and cable)
ODU Dimensions	385 mm x 385 mm x 33 mm
Operating Temperature	-40° C to +75° C
Storage Temperature	-55° C to +75° C
Humidity	95% RH at +40° C
ODU Wind Loading	Survival wind loading (with optional mount) up to 100 mph
IDU Water and Dust	IP-40 Compliant
ODU Water and Dust	IP-65 Compliant
Input Voltage	+12 Vdc/+24 Vdc nominal
Firmware Upgrades	Over the air or local

About Hughes Network Systems

Hughes Network Systems, LLC (Hughes) is the world’s leading provider of satellite broadband for home and office, delivering innovative network technologies, managed services, and solutions for enterprises and governments globally. HughesNet® is the #1 high-speed satellite Internet service in the marketplace, with offerings to suit every budget. To date, Hughes has shipped more than 2.5 million systems to customers in over 100 countries, representing over 50 percent market share. Its products employ global standards approved by the TIA, ETSI, and ITU organizations, including IPoS/DVB-S2, RSM-A, and GMR-1. Headquartered outside Washington, D.C., in Germantown, Maryland, USA, Hughes operates sales and support offices worldwide, and is a wholly owned subsidiary of EchoStar Corporation (NASDAQ: SATS), a premier global provider of satellite operations and digital TV solutions.

Where to Buy:

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