

Hughes 9502 BGAN Terminal

A cost-effective low-power BGAN M2M satellite terminal from Hughes.

Reliable M2M connectivity over the Inmarsat BGAN network with exceptionally low power consumption.



Overview

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 exceptionally 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.

Details

Manufacturer:	• Hughes
Network:	• Inmarsat
Device Type:	• Modem
Markets:	• SCADA / Telemetry • Utility • Security • OEM

Technical Specs

Frequencies:

- Satellite Transmit Frequency
1626.5–1660.5 MHz
 - Satellite Receive Frequency
1525–1559 MHz
 - GPS Frequency 1574.42–1576.42 MHz
-

Interfaces:

- 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
-

Power and Firmware:

- Input Voltage +12 Vdc/+24 Vdc nominal
 - Firmware Upgrades Over the air or local
-

Package contents:

- Hughes 9502 BGAN M2M Terminal IDU
- 10 meters RF antenna cable
- External antenna (ODU)

Environmental:

- 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
-

Mechanical:

- IDU Weight 1.2 Kg (2.64 lbs)
- IDU Dimensions 150 mm x 200 mm x 45 mm
- ODU Weight 1.9 Kg (4.18 lbs)
- ODU Dimensions 385 mm x 385 mm x 33 mm

Accessories:

- Modem (IDU) strap
- Antenna basic fixed mount kit
- Antenna azimuth elevation bracket
- Extended warranty options