

## Low Profile BGAN (LPB) Terminal

### LPB, the world's first lay flat BGAN antenna, with exceptionally low power consumption for off-the-grid installations

The Hughes Low Profile BGAN (LPB) modem and antenna provide the user with reliable, remotely controllable satellite connectivity over the Inmarsat BGAN network. The LPB modem delivers exceptional low power consumption (< 1 W idle) for off-the-grid installations. Both modem and antenna are IP-67 rated for outdoor use and can also be installed below ground-surface for inconspicuous operation. A thin layer of dry, non-metallic material over the antenna is permissible during TX/RX operation.

### Main Features

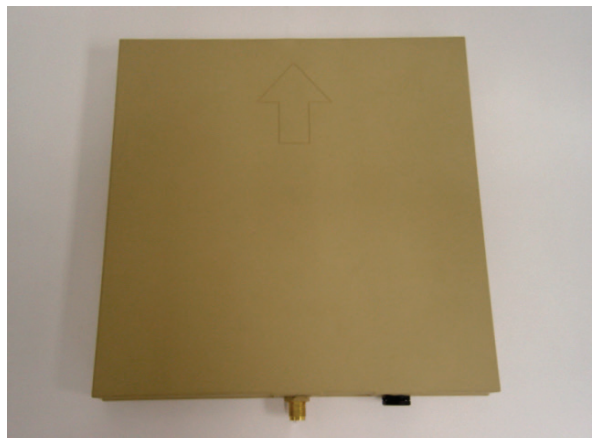
- Auto-on/autocontext activation automatically restores power and Packet Data Protocol (PDP) connection to the unit following loss of power and/or IP connection
- Remote control via SMS—allows command and control of the terminal using SMS, including configuration, debugging, and access to its Web interface
- Ultra-low power consumption
- Basic installation; no PC required
- Built-in GPS receiver
- Over the air firmware upgrades
- Minimal pointing of antenna is required; lay antenna flat and point arrow toward the satellite (antenna operates between 30°–60° elevation angle but can be tilted from horizontal, if necessary, at greater elevations.)

### Interfaces

- IP Ethernet connection via IP-67 rated 6-pin Amphenol connector
- Power-on switch signal via IP-67 rated 3-pin power input connector
- IP-67 TNC RF connection on modem to lay flat antenna
- USB for local configuration and setup

### Package Contents

- Low profile BGAN (LPB) modem
- Low profile, lay flat, passive antenna
- 3 m RF antenna cable (TNC)





Installation Example

### Technical Specifications

Satellite TX Frequency	1626.5–1660.5 MHz
Satellite RX Frequency	1525–1559 MHz
Modem Weight:	2.2 kg
Modem Dimensions:	253 mm x 176 mm x 53 mm
Antenna Weight:	1.2 kg
Antenna Dimensions:	240 mm x 240 mm x 29 mm
Operating Temperature	-40° C to +75° C
Storage Temperature	-45° C to +80° C
Humidity	95% RH at +40° C
Antenna and Modem –	IP-67 Compliant
Water and Dust	
Non-operational	200-2000 Hz, 0.3 m2/s3; MIL-SPEC
Mechanical Vibration	810B Method 500.3 proc. 1
Input Voltage Range	9 Vdc to 26 Vdc
Power Consumption	Transmit: < 20 W
	Narrow beam without transmit: ~3 W
	Idle (regional beam): < 1 W
	Off (wake on packet): < 10 mW (at 12 Vdc)
	Off (GPIO control): 0W
Other Features:	LED status indicator
	USB Type B for connection to configuration PC
	SIM/USIM slot
	Boot mode button (in SIM slot)
	3.5 mm audio jack for audio pointing tones
	Function button

For additional information, please email [BGANsales@hughes.com](mailto:BGANsales@hughes.com).