

Micro
Gain
Elevation
Polarisation
vs Azimuth

External antenna for remote use with the Inmarsat Regional BGAN terminal



Inmarsat has developed the Regional BGAN (Broadband Global Area Network) lightweight satellite IP modem that provides high-speed connectivity over 144 kbps secure shared channels.

The Regional BGAN satellite IP modem connects to a notebook or desktop computer - running a range of standard operating systems - via Ethernet, USB or Bluetooth.

As it is not always ideal to leave the Regional BGAN modem outside or unattended Inmarsat offers a remote antenna for fixed or semi-fixed outdoor installations.

The flat panel antenna, that has been developed by European Antennas in close cooperation with Inmarsat, can be wall mounted or mounted on a tripod on the ground. The standard cable provided is designed to allow the antenna to be installed at up to 12m from the terminal. To ensure the antenna is pointing in the right direction, easy to use instructions and a set-up CD is supplied.

- ▶ Remote antenna works with Inmarsat Regional BGAN lightweight (1.6kg) satellite IP modem
- ▶ Enables operator and modem to remain indoors
- ▶ Ready for migration to Inmarsat-4. Polarisation can be changed easily from left to right hand
- ▶ Supplied with 'tripod' style ground mounting kit and stainless steel wall mounting kit with manual and CD containing set-up instructions
- ▶ Rugged and waterproof for outdoor use
- ▶ Meets military standard 810E for blowing rain
- ▶ Performance not affected by solar radiation
- ▶ Works within specification with icing up to 25mm
- ▶ Operating temperature -50° to +55°C, RH up to 95%
- ▶ Overall package weight 12kg (26lbs)
- ▶ All ancillary components supplied with antenna in single case

Simple to set up and adjust



Microwave Antennas

TECHNICAL INFORMATION

Model No	FPA17-16RL-1079
Frequency	1.525 - 1.6605GHz
Polarisation	Dual circular, right and left
Axial ratio	3dB worst case on boresight
Power rating	10W
Beamwidth	18° azimuth x 35° elevation
VSWR	2:1
Temperature	-50° to +55°C
Relative Humidity	95%
Blowing rain	MIL-STD-810E
Icing	Up to 25mm
Lightning	Protected
Antenna finish	Painted white
Brackets finish	Painted black
Wall mounting kit	Stainless steel finish
Ground mounting kit	Painted satin black
Peak gain, LH port	15.6dBic Rx, 15.9 dBic Tx min
Peak gain, RH port	15.7dBic Rx, 16.0dBic Tx min
Gain 6° off Rx peak in el (LH port)	15.2dBic Rx, 15.2dBic Tx min
Gain 6° off Rx peak in el (RH port)	15.3dBic Rx, 15.4dBic Tx min
Max transmit gain (either port)	16.5dBic

ACCESSORIES

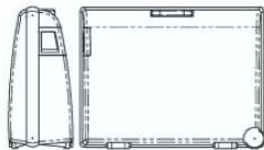
All items provided in hard wall case: Inclinator, Compass, Manual and Set-up CD, Releasable Cable Ties, Ground Pegs, Polyisobutylene Tape

CABLE



Overall length 12.3m, 10mmØ low loss cable, with N(M) connector and short length of 5mmØ flexible cable with SMB connector. Cable insertion loss @ 1.625GHz = 2.3±0.1dB

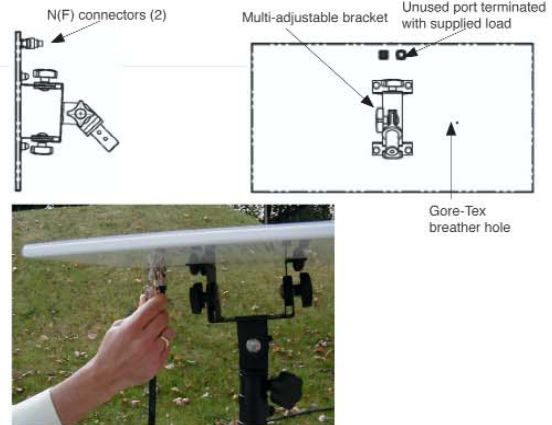
HARD WALL CASE DIMENSIONS
660(L)x508(H)x228(D) mm
(26(L)x20(H)x9(D) inches



ANTENNA DIMENSIONS

572(L) x 305(H) x 10.4(D) mm

22.5(L) x 12(H) x 0.41(D) inches



WALL MOUNTING KIT

Stainless steel finish. Weight 1.4kg, max wind speed 160kph (100mph) when correctly secured via fixing holes



GROUND MOUNTING KIT

'Tripod' style, steel tubing painted satin black, rubber feet, weight 1.5kg



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