

Technical Specifications

Regional BGAN is the latest innovation from Inmarsat – a world leader in mobile wireless business communications via satellite. It is a wireless packet data service based on Internet Protocol (IP), which offers mobile, high-speed access to the Internet and corporate IT networks via a small, lightweight portable Satellite IP Modem.

The Regional BGAN Satellite IP Modem connects to a notebook or desktop computer – running Microsoft Windows 98, Millennium Edition (ME), 2000 or NT – via Ethernet, Universal Serial Bus (USB) or utilising Bluetooth.

On power up, the Satellite IP Modem executes a location determination process that enables it to pass information to the user, via a standard web browser, regarding its positioning for optimum use. A built-in compass and an elevation protractor can also be used for this.

Regional BGAN has a web based user interface providing full details of the operational status of the system connection, with key information replicated on the Satellite IP Modem using a series of LEDs.

Once connected, the user may remain 'on-line' for as long as required and perform tasks as if working in the office or home, but only being charged for data sent or received.

Benefits

- **Affordability** – a cost effective 'always on' solution so you only pay for the amount of data you send and receive, not for the amount of time spent on line
- **High quality permanent connectivity** – service anywhere within the coverage area*
- **Productivity** – organisations benefit from increased cost efficiencies
- **Reliability** – extreme reliability, service and modem tested extensively
- **Security** – meeting the requirements of the most demanding users

- **Simple set-up and ease of use** – fast set-up and operation
- **Portable** – compact and lightweight for easy carriage and transportation
- **Robust** – the Satellite IP Modem is designed to operate in extreme weather conditions
- **High-speed** - more than twice the speed of the current GPRS terrestrial systems.

Applications

- Instant Remote Access – to corporate LANs and Intranets
- VPN Connectivity– reliable and secure high-speed access to information
- Web Browsing – high-speed internet access
- Email (POP3 and IMAP)
- File transfer and FTP
- Digital Image Transfer – share files and collaborate with colleagues
- E-commerce – for online ordering and procurement
- Database Queries – immediate access to customer records and critical information
- Store and Forward Video – ideal for sending video clips
- Remote IT Support – software upgrades and diagnostics

Service Characteristics

- Regional BGAN service will provide GPRS based packet data communications to notebook-sized modems over shared 144 kbit/s channels.
- The service will be available in a footprint covering up to 99 countries across Europe, the Middle East, the Indian sub-continent and North, Central and West Africa.*
- The system will make use of an Inmarsat Satellite Access Station located in Fucino, Italy.
- A three position switch is incorporated within the antenna to enable the user to select the integrated antenna, an external antenna (optional) and a third position to allow the Satellite IP Modem to be operated over the Inmarsat I-4 satellites when these become operational.
- The Satellite IP Modem has two buttons in addition to the LEDs. The first button enables power on/off whilst the second button enables the user to select the interface connection (Ethernet, USB or Bluetooth). The LEDs are multi function, particularly during start-up. In operation, internationally recognised icons identify the LED functions.

Environmental

Feature	Details
Lightweight	1.6 – 1.8 Kg (3.3 lbs – 3.9 lbs)
Compact	300 mm x 240 mm x 40 mm (11.8" x 9.4" x 1.6")
SIM Card	Yes
Operating temperature	-10 °C to +55 °C (14 °F to 131 °F)
Operating humidity	95% RH at 40 °C (104 °F)
Input Voltage	7.2 to 8.4 Vdc
Mechanical vibration	200-2000 Hz, 0.3 m2/s3
Unpackaged Drop	0.5 m on concrete
Solar radiation	1120W/m2; MIL-SPEC 810E 505.3
Water and dust proofing	IP-54 as standard, dust and spray proof in all directions
Air pressure for transport at altitude	4500 m AMSL; MIL-SPEC 810E METHOD 500.3
Battery Life	36 hours standby time and 1 hour of continuous transmission at highest rate
Battery Type	Lithium-Ion
External Power	Mains power supply adapter.
Connectors	USB, Ethernet, Bluetooth
User Interface	Web page based graphical user interface accessible via standard web browser. Wizard set-up guide for sample start-up and set-up operations

*Subject to licence



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