INMARSAT Regional BGAN

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 a range of standard operating systems including Microsoft Windows 98, Millennium Edition (Me), NT, 2000 and XP – via Ethernet, Universal Serial Bus (USB) or utilising Bluetooth.

Installation software containing drivers, browser software, Quick Start Wizard, user manual etc. is included with the Regional BGAN terminal.

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 assists the user in pointing the antenna.

The Regional BGAN Satellite IP Modem 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 the volume of 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

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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)
Terminal 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	Up to 24 hours standby time and 1 hour of continuous transmission at highest rate
Battery Type	Lithium-Ion
External Power	Mains AC Power Supply Adapter (AC 100 – 240 V).
Interfaces	USB, Ethernet, Bluetooth (LAN Access Profile)
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
Accessories	External GPS Antenna, External Communications Antenna, 12 V car battery charger, additional batteries

**Subject to licence*

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