



BGAN M2M Gateway

Global Government

Connect your legacy serial and IP SCADA devices to the BGAN M2M Gateway

> Network Gateway

Terminal control and IP traffic management

> Port Forwarding

All remote devices accessible via one PDP

> Serial Interface

Optimised serial to IP converter for legacy devices



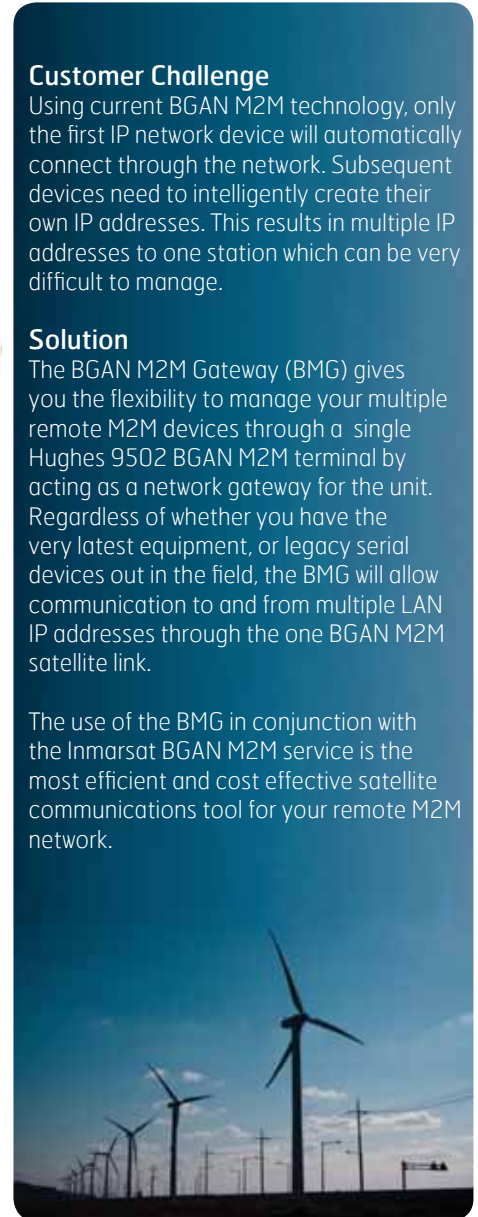
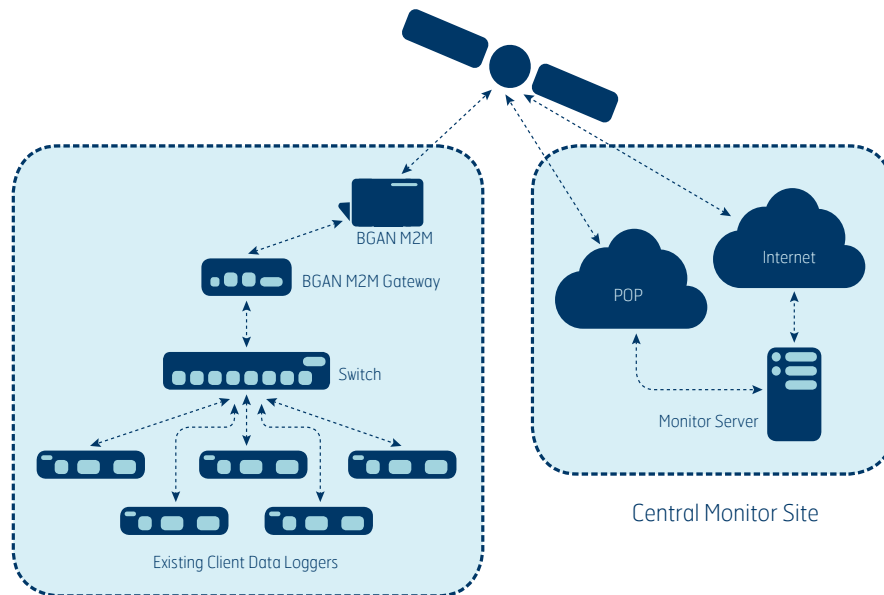
Customer Challenge

Using current BGAN M2M technology, only the first IP network device will automatically connect through the network. Subsequent devices need to intelligently create their own IP addresses. This results in multiple IP addresses to one station which can be very difficult to manage.

Solution

The BGAN M2M Gateway (BMG) gives you the flexibility to manage your multiple remote M2M devices through a single Hughes 9502 BGAN M2M terminal by acting as a network gateway for the unit. Regardless of whether you have the very latest equipment, or legacy serial devices out in the field, the BMG will allow communication to and from multiple LAN IP addresses through the one BGAN M2M satellite link.

The use of the BMG in conjunction with the Inmarsat BGAN M2M service is the most efficient and cost effective satellite communications tool for your remote M2M network.



General IP Features

The BMG provides a user friendly, flexible and cost efficient way to manage your remote machine to machine devices.

- > Allows local and remote web configuration.
- > Gives you the flexibility to select whether to allow remote access for monitoring and control of your devices.
- > Gives you the option of static or dynamic IP addressing on WAN port.
- > Provides a SSH server option for password protected access.
- > Allows you to set address and configure the DHCP server on the LAN port.

Serial Interface Features

- > Configurable for local echo
- > “Keep Alive” function for end-to-end connection management
- > Provides a “Sleep” interval, which shuts down all communications to the WAN port to allow the BGAN/BGAN M2M satellite terminal to go into idle and sleep modes. This minimises cost and power consumption.
- > Gives you the ability to over-ride SIM APN.
- > Allows you to set username and password with APN
- > Allows the user to optimise data transfer timeout and buffering in order to minimise the IP overheads.

Technical Specifications

| | |
|--------------------------|---|
| Supported BGAN Terminals | Hughes 9201 Hughes 9202 Hughes 9502 Thrane & Thrane Explorer 300 Thrane & Thrane Explorer 500 Thrane & Thrane Explorer 700 |
| BGAN Interface | Ethernet RJ45 100 Mbps |
| Serial Interface | RS-232C Female DB9 300 bps to 115200bps TxD, RxD, GND 8N1 No flow control |
| Power Requirements | 9-15 VDC, 0.5A |
| PowerConsumption | 1.2W (0.08A @ 14VDC or 0.1A @ 12 VDC continuous with startup of 0.15A @ 12VDC) |
| Power Connector | Circular 5.5 x 2.5mm |
| Casing | Aluminium |
| Dimensions | 106 x 34 x 127mm (WxHxD) |
| Weight | 260Grams, not including interface cables |
| Warranty | 12 months |
| Package Contains | BGAN M2M Gateway Documentation USB |



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