Inmarsat BGAN
For Land
Broadband Global Area Network
Improving operational efficiency
Unrivalled reliability
Cost-effective
Inmarsat Assured Access
BGAN Feature Overview
Applications / Pricing Plans
Terminals

Portable and fixed
HARRIS RF-7800B-DU024
Low Profile BGAN
EXPLORER 710
EXPLORER 700
EXPLORER 500
HUGHES 9202
EXPLORER 300
WIDEYE SABRE 1
HUGHES 9201

Vehicular BGAN
WIDEYE SAFARI
EXPLORER 325
HUGHES 9450-C11
GLOCOM GX-11
GLOCOM GX-10
EXPLORER 727
HUGHES 9350 C10
HARRIS RF-7800B-VU104

Enhance connectivity
BGAN is the market leading mobile satellite communications service, providing reliable, cost-effective global broadband data and voice at the same time using compact, lightweight portable terminals.

Government users in the 21st Century need constant access to the full range of internet, voice and video services. Wherever they are in the world, whether moving rapidly to a remote trouble spot, working in a military headquarters deployed to a foreign country or providing first-class medical care in a remote corner of the nation, they demand high-availability communications that give them reliable access to the information and services essential for them to do their job.

While the U.S. government and military operate their own satellite constellations to support their communication needs, they continue to depend on commercial satellite communications. Inmarsat’s satellite constellation offers a wide range of capability and technical sophistication to complement the milsatcom services. The most advanced commercial communication constellation ever launched, Inmarsat’s fourth generation satellites are expected be in operation well into the 2020s, providing you the reassurance that you are choosing a stable platform that will support your needs now and in the future.

Whether chosen as a flexible, stand-alone primary terminal or as a complement to services available from national or other networks, BGAN provides government users the power to meet challenges head on, delivering high-speed state-of-the-art IP connectivity while also supporting core voice and legacy data services, such as ISDN.

Based on 3G standards, BGAN provides constant, simultaneous access to voice and high-speed data services, on a global basis. You can send and receive email with large file attachments, comfortably run complex applications and make voice calls all at the same time – and do it more affordably than ever before. Terminals are light-weight, portable and quick and easy to set up. What is more, you can rest assured that each one has been tested and approved to Inmarsat’s own exacting standards to ensure that it is fully compatible with the BGAN network.

Broadband Global Area Network

Rapidly deployable, easy to operate, reliable satcom for the government user
Improving operational efficiency

Delivering secure, reliable connectivity. Globally.

Global coverage
The BGAN service is accessible globally except in the extreme polar regions. Whether deploying a police and counter-terrorism team to a remote flash point in an austere border region or sending a military liaison and reconnaissance group to a distant country in support of an international aid effort, BGAN ensures that you are never out of touch. Wherever you need to be. However quickly you need to get there.

Superior performance
BGAN provides fast, cost-effective access to IP data-services. Whether you need fast, stable streaming services to send and receive high-quality video or your role demands reliable, always-on connectivity to your office intranet for email access and collaborative tools on the move, BGAN allows you to use complex applications with confidence. Simultaneous voice and data capability means that operational services can be running online and you can still access email, your intranet and make voice calls – all via a single, compact terminal.
Inmarsat understands the needs of the government user and the importance of having confidence that your communications will work at the critical moment exactly when they are needed. The government user often will not have a second chance when the moment has been lost.

BGAN is designed specifically to provide you with the highest levels of network availability. Inmarsat’s fourth generation satellites form the most sophisticated commercial constellation in operation today, with redundancy engineered into both space and ground segments. The network is based entirely on highly-resilient L-band links, which are unaffected by the rain-fade that degrades links in other bands. This technology allows constant, robust communications with overall network availability exceeding 99.9 per cent. Whatever the weather, you can depend on Inmarsat.

Complete security
Inmarsat has long experience of providing secure communications to government and military customers. All BGAN traffic is passed over a secure, private carrier network and Inmarsat’s continuous ongoing security programme ensures its networks continue to meet international standards and customer requirements. However, we also understand that, at times, government users have their own unique requirements for the security of their information and need even greater confidence in its level of protection. Therefore our network also supports the use of additional security products such as VPNs, ISDN and IP cryptos. We also have available covert terminals for users with special operational requirements.

Total flexibility. Supports the latest technologies and your older applications
BGAN supports the latest IP services, as well as circuit-switched voice and data for your legacy applications. You can choose between a standard, contended IP service and a service providing a guaranteed data rate on demand – with the ability to select the rate according to your application. Various types of terminal are available, each of which offers different performance capabilities via approved hardware.

Easy installation and integration
BGAN terminals operate in static locations or “On The Pause” and a wide range is also available for use in vehicles on the move. These can be quickly and easily installed across your entire fleet. Terminals operate globally, with a simple and intuitive interface.
Cost-effective

BGAN’s high performance and flexibility doesn’t need to come at a high price. Terminal costs are low and a wide choice of airtime pricing packages allows you to match the service precisely to your needs. And there is no need to commit to a lengthy contract. BGAN makes global, mobile voice and data services more accessible than ever while allowing you to reduce the cost of ensuring that government users always have the communications they need, where they need them to be able to carry out their mission.

BGAN offers affordable communications that allow government users to travel the world while remaining constantly in touch with their core; that offer defense, intelligence and civilian agencies the highest levels of operational readiness, effectiveness and agility; and allow citizen-facing departments to ensure that the same high-grade services are consistently available to everybody, at all times, regardless of whether they are in the urban centres or in the most remote locations. BGAN connectivity makes it possible for government users to provide the services that citizens deserve and expect in a digital age.

The range of BGAN terminals and service plans make it ideal for almost all government users. Services range from low usage machine-to-machine plans to high capacity assured access and guaranteed rates on demand for streaming video. The new BGAN High Data Rate (HDR) service offers rates up to 650kbps – and even the option of doubling this by combining two channels if using suitable hardware. Whether your requirement is for a simple SCADA solution or reliable streaming of high-resolution full motion video, there is a BGAN service plan that meets your requirement.
Applications
- Stand-alone or complementary to dedicated government satellite
- Mobile or static operation from portable, vehicle or fixed terminals
- Email and webmail
- Remote access to the internet or to company or department intranet
- Secure voice and data communications
- SMS and instant messaging
- Video conferencing
- Watch or send Full Motion Video
- Store and forward video

Pricing Plans

Standard IP
Ideal for email, internet and intranet access via a secure VPN connection, at speeds up to 492 kbps over a shared (contended) channel.

Streaming IP
The BGAN X-Stream™ service delivers guaranteed data rates on demand up to 384 kbps. Choose the data rate on a case by case basis, depending on your application. A new BGAN HDR service streaming service provides the fastest, non-contended data rates. With bandwidth up to 650 kbps in a single channel and the opportunity to double that using two channels combined, this service is particularly well suited to high quality video and imagery applications.

Assured Access
A guaranteed data rate within a defined geographic region that can be shared between more than one terminal.

Voice
Make voice calls at the same time as accessing your data applications. Voicemail is also available. Group 3 fax is supported via the voice channel.

ISDN
Supports ISDN at 64 kbps for your legacy applications.

Shared Corporate Allocation Plan
Choose a shared allocation plan that allows you to share your chosen data package between a small or large group of terminals. Ideal for departments and agencies who need a number of different terminals operating.
### Terminals

<table>
<thead>
<tr>
<th>Wideye™ Safari™</th>
<th>EXPLORER® 300</th>
<th>EXPLORER® 500</th>
<th>HUGHES 9202</th>
<th>HUGHES 9201</th>
<th>EXPLORER® 700</th>
<th>EXPLORER® 710</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Addvalue Communications</td>
<td>Cobham SATCOM</td>
<td>Cobham SATCOM</td>
<td>Hughes</td>
<td>Hughes</td>
<td>Cobham SATCOM</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>259 x 195 x 58mm 1.64kg</td>
<td>217 x 168 x 52mm 1.4kg</td>
<td>217 x 218 x 52mm 1.4kg</td>
<td>216 x 216 x 45mm 1.5kg</td>
<td>345 x 275 x 50mm 2.8kg</td>
<td>219 x 297 x 55mm 3.7kg</td>
</tr>
<tr>
<td><strong>Portable / fixed</strong></td>
<td>Portable</td>
<td>Portable</td>
<td>Portable</td>
<td>Portable</td>
<td>Portable and fixed</td>
<td>Portable and fixed</td>
</tr>
<tr>
<td><strong>Standard IP</strong></td>
<td>Up to 240 / 384kbps (send / receive)</td>
<td>Up to 448 / 456kbps (send / receive)</td>
<td>Up to 448 / 456kbps (send / receive)</td>
<td>Up to 492kbps (send and receive)</td>
<td>Up to 492kbps (send and receive)</td>
<td>Up to 492kbps (send and receive)</td>
</tr>
<tr>
<td><strong>Streaming IP</strong></td>
<td>32, 64kbps</td>
<td>32, 64kbps</td>
<td>32, 64, 128kbps</td>
<td>32, 64, 128kbps</td>
<td>32, 64, 128, 256kbps</td>
<td>32, 64, 128, 176, 256kbps</td>
</tr>
<tr>
<td><strong>Voice and fax</strong></td>
<td>Via RJ-11, handset</td>
<td>Via RJ-11 or Bluetooth handset / headset</td>
<td>Via RJ-11 or Bluetooth handset / headset</td>
<td>Via RJ-11 (x2) for voice</td>
<td>Via RJ-11 (x2), Bluetooth handset or 3.1kHz audio</td>
<td>Via RJ-11 (x2), Bluetooth handset or 3.1kHz audio / IP handset</td>
</tr>
<tr>
<td><strong>ISDN</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>64kbps via USB</td>
<td>64kbps via RJ-45</td>
<td>64kbps via RJ-45</td>
<td>64kbps via RJ-45</td>
</tr>
<tr>
<td><strong>Other data interfaces</strong></td>
<td>Ethernet, USB</td>
<td>Ethernet, Wi-Fi</td>
<td>Ethernet, Wi-Fi</td>
<td>Ethernet, Wi-Fi, Wi-Fi</td>
<td>Ethernet, Wi-Fi, Wi-Fi</td>
<td>Ethernet, Wi-Fi</td>
</tr>
<tr>
<td><strong>Ingress protection</strong></td>
<td>IP 54</td>
<td>IP 54</td>
<td>IP 54</td>
<td>IP 55</td>
<td>IP 55</td>
<td>IP 56</td>
</tr>
</tbody>
</table>

| Vehicular terminals |

<table>
<thead>
<tr>
<th>Wideye™ Sabre™</th>
<th>EXPLORER® 9202</th>
<th>HUGHES 7100</th>
<th>HUGHES 710</th>
<th>GLOCOM GX10</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Addvalue Communications</td>
<td>Cobham SATCOM</td>
<td>Hughes</td>
<td>Cobham SATCOM</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>Terminal 340 x 253 x 61mm 3.5kg</td>
<td>Terminal 234 x 281 x 46mm 2.4kg</td>
<td>Terminal 260 x 210 x 44mm 2.5kg</td>
<td>Terminal 260 x 256 x 44mm 2.8kg</td>
</tr>
<tr>
<td><strong>Standard IP</strong></td>
<td>Up to 448 / 456kbps (send / receive)</td>
<td>Up to 448 / 456kbps (send / receive)</td>
<td>Up to 492kbps (send and receive)</td>
<td>Up to 492kbps (send and receive)</td>
</tr>
<tr>
<td><strong>Streaming IP</strong></td>
<td>32, 64, 128kbps</td>
<td>32, 64, 128kbps</td>
<td>32, 64, 128, 256kbps</td>
<td>32, 64, 128, 256kbps</td>
</tr>
<tr>
<td><strong>Voice and fax</strong></td>
<td>2 RJ-11 ports for voice or fax</td>
<td>1 RJ-11 port for voice</td>
<td>2 RJ-11 ports for voice or 3.1kHz audio / fax</td>
<td>Via RJ-45 ISDN handset, via ISDN TA with two RJ-11 ports for voice or 3.1kHz audio / fax</td>
</tr>
<tr>
<td><strong>ISDN</strong></td>
<td>N/A</td>
<td>32, 64, 128, 256kbps (3rd party)</td>
<td>32, 64, 128, 256kbps (3rd party)</td>
<td>32, 64, 128, 256kbps (3rd party)</td>
</tr>
<tr>
<td><strong>Other data interfaces</strong></td>
<td>2 x Ethernet, WLAN 802.11b (Wi-Fi)</td>
<td>Ethernet, Wi-Fi with extended standard connector</td>
<td>Ethernet, Wi-Fi with extended standard connector, USB</td>
<td>Ethernet, Wi-Fi</td>
</tr>
<tr>
<td><strong>Ingress protection</strong></td>
<td>IP 54 (terminal) IP 56 (antenna)</td>
<td>IP S4 (terminal) IP S6 (antenna)</td>
<td>IP S4 (terminal) IP S6 (antenna)</td>
<td>IP S4 (terminal) IP S6 (antenna)</td>
</tr>
</tbody>
</table>
Service Enhancement

Inmarsat Assured Access – Providing a guaranteed grade of service on the Inmarsat network for a known price.

Inmarsat Assured Access provides priority access and guaranteed connectivity to the Inmarsat global network for your BGAN, FleetBroadband and SwiftBroadband services. Assured Access will provide you with a highly reliable, secure communications link to support a range of applications in theatre – from tactical voice through to the rigorous demands of C4ISR.

Benefits
> Always available – 24/7 assurance of network access
> Pre-agreed fixed costs for predictable budgeting
> Operational flexibility – available globally and with options to move footprints
> Scalable coverage – up to 15 spot beams with options for dual footprints

Applications
Assured Access will give you guaranteed communications for:
> Tactical radio nets
> Communications on the move
> Situational awareness
> Surveillance and remote monitoring
> Full motion video

Customer Challenge
Land, Sea and Air operations in an information dense environment often have to contend with degradation of speed and efficiency due to heavily loaded networks.

Requirement
There is an operational demand for a dependable, fixed grade of service that cannot be achieved when the shared nature of the communications ‘pipe’ impacts on the end-user experience.

Solution
Assured Access grants a pre-defined group of mobile users uncontended access to BGAN network resources. When connected to an Assured Access plan, SIMs are always able to connect to the I4 network with a defined grade of service, even when the network is heavily loaded.

Assured Access can be provided for single users or multiple SIMs and services are available across the Inmarsat Air, Land and Sea portfolio.
Portable and fixed BGAN Terminals
User interface
The service is accessed via BGAN LaunchPad, a software interface, which is standard across all BGAN terminals. Step-by-step instructions on pointing the terminal and setting up a satellite connection.

Customise data connection options to match application requirements.
Pre-configure user access settings, e.g., restrict access to Streaming IP services.

Online access to account and billing information.
Personal and corporate versions.
Access to text messaging and telephony features.


Enhanced connectivity

The global broadband mobile office

Standard IP
For email, internet and intranet access via a secure VPN connection, at speeds up to 492kbps over a shared channel.

Streaming IP
Guaranteed data on demand at rates in excess of 384kbps. Choose the data rate on a case-by-case basis, depending on your application. Also supports ISDN at 64kbps.

Phone
Make phone calls at the same time as accessing your data applications. Voicemail and other standard 3G mobile supplementary services are also available.

Text
Send and receive text messages via your laptop – up to 160 characters – to or from any mobile phone.

BGAN terminals
BGAN is accessible via a range of small, lightweight satellite terminals, which provide performance options to suit different operational needs. They can be used both indoors and outdoors, being robust enough to withstand challenging environments and extremes of temperature.

The smallest terminals are designed to suit single users, for whom portability is a key consideration. The larger terminals offer a WLAN capability and are particularly suitable for small teams that need to establish a temporary office for an extended period. They are also suitable for users requiring higher bandwidth to enable applications such as live broadcasting.

Vehicular systems comprise an interior terminal and discreet tracking antenna, which is mounted on the vehicle roof. They provide access to voice and high-speed data while ‘on the move’.
The Harris RF-7800B-DU024 BGAN Terminal provides tactical radio network capability that enhances the FALCON III® multiband radio family. The RF-7800B-DU024 is a Class 2 BGAN Land Portable Terminal that provides data rates of up to 432 kbps.

The RF-7800B-DU024 BGAN Terminal is designed for operation in harsh environmental conditions. The RF-7800B-DU024 terminal is a manually pointed antenna system capable of rapid deployment for sending and receiving data once pointed at the satellite. When used with the AN/PRC-117G(V)1(C) or the RF-7800MMP manpack radios, the terminal provides a multimode system that utilizes ad-hoc networking to automatically route between mobile wideband networked line-of-sight (LOS) nodes, adding global beyond-line-of-sight (BLOS) satellite connectivity. The Falcon III integrated system manages Inmarsat subscriber costs through the automated routing between ANW2 LOS and BLOS nodes. The system is designed to ensure a seamless tactical network-centric BLOS connectivity to the existing FALCON III tactical networks, providing secure IP data transfer capability and increased communications reliability.

When used with the Falcon III manpack radios, the Harris BGAN terminals can provide an increased effective throughput of up to 2 Mbps over the Inmarsat network due to TCP/IP acceleration and compression algorithms within the ANW2 waveform, further reducing your costs.

The Harris BGAN Terminal IP data is encrypted by the Sierra II™ Type-1 algorithms in the AN/PRC-117G or the Acropolis™ II AES encryption algorithms in the RF-7800M-MP. The embedded software of the manpack radio provides the ability to fully configure, remotely control and provide status and fault monitoring of the RF-7800B-DU024 BGAN Terminal using the radio’s front panel, making it the easiest BGAN Terminal to set up and operate. The RF-7800B-DU024 provides global network connectivity solutions when used as a standalone terminal with a computer for applications such as law enforcement, homeland security or humanitarian and disaster relief efforts.
Low Profile BGAN

Covert - Military Standard BGAN

The Low Profile BGAN (LPB) is Inmarsat’s unique surveillance terminal. A rapid-to-deploy, coverable, covert antenna allowing the user to bury the antenna under a layer of material yet maintain connectivity, is combined with a toughened, remotely operated BGAN terminal providing broadband data rates.

This capability allows the terminal, when fitted to triggers and surveillance hardware, to lay dormant until awoken by a network command from the command centre or triggered into action by an event in the field. When attached to movement, audio, infrared and radar sensors it allows eyes and ears on the ground without any of the risk or resource demand that having hidden manned surveillance entails.

The LPB meets end user operational requirements and is ideal for fixed land, static vehicle and rapid deployment connectivity. Compatible with a wide range of government furnished equipment, the LPB is designed to be deployed for long periods of time without any attendance, allowing users to activate the terminal remotely using SMS or UT commands streaming information to a variety of devices. Events on the ground can also be set to trigger activation thus providing real-time situational awareness by alerting those who need to know what is happening in the area of interest, instantly.

Remote management
An IP Watchdog integrated into the system ensures “always-on” network connectivity. When the terminal loses power no manual intervention is required to reawaken it. Auto on/auto-context activation automatically restores power and PDP connection to itself following loss of power and/or IP connection. The terminal can be awoken by remote control via SMS or UT. This provides remote management platform for command and control to the terminal using SMS, including configuration, debugging, and activation of surveillance hardware.

Covert antenna
A rugged antenna that still achieves high performance when laid flat allows for easy deployment in a variety of locations. With the ability to cover the terminal in soil, sand or even water the LPB, harnessing the resilience of BGAN, allows peace of mind that your connection is going to be maintained even in the most hostile situations.

Key Features
- Military standard environmental and ingress protection.
- High speed data rates capable of securely streaming real time video, audio and data to a variety of end users throughout the world
- Multi phased array antenna, no need for complex pointing.
- Excellent coverage in all types of terrain
- Covert, silent solution prevents detection
- Compatible with a range of tamper alarms
- Highly reliable
- Field-proven
- Lightweight and compact
EXPLORER 710

Class 1 BGAN Terminal. The ultimate BGAN

At the forefront of a new era of high speed ultra-portable satellite streaming, EXPLORER 710 is a sophisticated communication tool for those that demand high performance IP based applications.

**BGAN but faster**

EXPLORER 710 provides streaming rates over 650 kbps out of the box when using Inmarsat’s latest high data rate streaming service.

With EXPLORER 710, you can leverage the fastest on-demand video streaming via satellite with guaranteed QoS to enhance the quality of live imagery, video streaming and remote communication.

**Unique possibilities**

Continuing the tradition of technology leadership started when the EXPLORER team introduced its first BGAN terminal in 2005, EXPLORER 710 introduces several advanced new features.

Uniquely, it has the ability to bond the signals from multiple EXPLORER 710 terminals via Ethernet to achieve IP streaming rates of 1 Mbps or even higher, for the most demanding uses such as high quality imagery and video.

**Bring Your Own Device**

EXPLORER 710 also introduces Smart Phone apps to the world of BGAN connectivity, enabling users to connect their own devices wirelessly for voice calling and connectivity.

It’s light, compact, tough and incredibly reliable. It opens more possibilities for connecting devices, offering more flexibility. It’s ultra-portable, so you can be set-up within minutes of arriving on scene.

**Next generation**

EXPLORER 710 is the complete package, featuring touches like a USB host interface, hot-swappable batteries, easy-to-use LED display and multiple interfaces.

It’s the world’s smallest and lightest Class 1 BGAN terminal and the first platform to make use of new high data rate streaming as standard, so is a true next generation BGAN terminal.
EXPLORER 700

Class 1 BGAN Terminal. Multi-user device with extensive functionality

The EXPLORER 700 combines optimal performance with extensive functionality in an extremely flexible and robust design. It provides access to high bandwidth services on the BGAN network with multiple voice and data interfaces, including WLAN connectivity.

The terminal has a detachable, highly durable antenna, enabling indoor or outdoor use. It is ideal for live video applications or for teams to share in a temporary office environment, whatever the climatic conditions.

Applications

- Remote access – high speed access to network headquarters enabling instant transfer of mission critical information
- Internet – access the internet at speeds up to 492kbps.
- Email – send and receive email via the internet or email applications.
- Telephony – make phone calls via a peripheral handset at the same time as accessing data applications.
- Streaming – select guaranteed data rates on demand to suit your application. Choose BGAN X-Stream™ for speeds in excess of 384kbps for live video broadcasting. Also supports ISDN at 64kbps.
- File transfer – send and receive large files.
- Store and forward – save and send files e.g. video
EXPLORER 500

Class 2 BGAN Terminal. High bandwidth, highly portable device

The Thrane & Thrane EXPLORER 500 combines exceptional performance with portability. It meets the needs of the government sector for an easy to use, portable and deployable broadband satellite terminal. Particularly applicable for small operations teams that need the capability to communicate instantly with headquarters via a reliable, high-speed connection.

Key Features

- Remote access - high speed access to network headquarters enabling instant transfer of mission critical information
- Internet – access the internet at speeds up to 464kbps.
- Email – send and receive email via the internet or email applications.
- Telephony – make phone calls via a peripheral handset at the same time as accessing data applications.
- Streaming – select guaranteed quality of service up to 128kbps on demand, e.g. for video, audio.
- File transfer – send and receive large files.
- Store and forward – save and send files e.g. video
HUGHES 9202

Class 2 BGAN Terminal. Broadband satellite IP terminal with voice, ISDN and built-in 802.11 Wi-Fi access point

The reliable and lightweight Hughes 9202 Land Portable Terminal boasts a compact and sleek design. A budget-friendly and highly attractive portable terminal, the Hughes 9202 is ideal for governments and NGOs, first responders, public safety and mobile health care workers.

The Hughes 9202 provides high performance connectivity and reliability for the most demanding users and extreme conditions. Using the world’s smallest BGAN terminal, users can connect at IP broadband speeds up to 464 kbps, as well as take advantage of such features as built-in multi user Wi-Fi access and automatic context activation (ACA), including the ability to transmit SMS messages via the integrated user interface (IUI) without a connected laptop, PDA, or other user device.

The Hughes 9202 allows the user to send and receive IP traffic via Ethernet and Wi-Fi. In parallel with the packet data service, the Hughes 9202 supports full ISDN and circuit switched voice and fax calls via a two-line RJ11 plug. Planners, commanders, headquarters staff and others can collaborate with confidence and efficiency with various agencies and headquarters staff using video, voice, and data simultaneously. As with all Hughes BGAN models, the Hughes 9202 is IP-based, delivering selectable, dedicated Quality of Service (QoS) levels.

Main Features

- Rugged and durable IP55 rating
- Backlit LCD user display including four button control
- Wi-Fi inside supporting multi-user access
- Two-line RJ11 for voice and fax
- Full ISDN support including Unrestricted Digital Information (UDI)
- Advanced integrated user interface (IUI)
- Automatic Context Activation (ACA)
- XL-band ready
EXPLORER 300

Class 3 BGAN Terminal. Optimum functionality in a compact design

The EXPLORER 300 optimizes functionality in a highly compact, robust design. It comprises a single unit incorporating a transceiver and an integral antenna.

The terminal combines performance with ultimate portability and is ideal for single users who need to set up a complete broadband mobile office in frequently changing locations.

Applications

➢ Remote access – high-speed access to your office or headquarters network.
➢ Internet – access the internet at speeds up to 384kbps.
➢ Email – send and receive email via the internet or email applications.
➢ Telephony – make phone calls via a peripheral handset at the same time as accessing data applications.
➢ Streaming – select guaranteed quality of service up to 64kbps on demand e.g. for video, audio.
➢ File transfer – send and receive large files.
➢ Store and forward – save and send large files e.g. video.
WIDEYE SABRE 1

Class 3 BGAN Terminal. Voice and data, single-user device

The SABRE™ I combines a robust, compact design with performance and optimal flexibility. It is equipped with a range of common interfaces, providing connectivity options in the field and the swivelled antenna facilitates rapid and easy pointing for a satellite connection. Combined with its sub-laptop size, the terminal is ideal for single users who need to set up a complete broadband mobile office in frequently changing locations.

Key benefits
- Ultimate portability – at around half the size of a laptop, it is one of the smallest and lightest terminals in the range.
- Simultaneous voice and broadband data – access your data applications and make a phone call at the same time using the SABRE™ I.
- Highly flexible – can be connected to a laptop via the Ethernet port or wirelessly via Bluetooth.
- Global coverage – provides service anywhere within the BGAN coverage area.
- Easy to use – you can easily access the service using the intuitive icon-based BGAN LaunchPad on your laptop.
- Robust – the strong casing means the SABRE™ I can withstand the toughest of environments.
- Completely secure – connect seamlessly via your preferred VPN application.

Applications
- Remote access – high-speed access to your office or headquarters network, as well as company and customer information.
- Internet access – access the internet at speeds up to 384kbps.
- Email – send and receive email via the internet or email applications.
- Telephony – make phone calls at the...
HUGHES 9201

M2M BGAN Terminal. High performance, multi-user device

The HNS 9201 combines high end performance with an extremely rugged design. It is one of the highest bandwidth terminals in the range and supports WLAN connectivity, in addition to other standard data interfaces.

It is ideal for either single users using bandwidth-hungry applications, such as live video, or for small teams which need to set up a temporary office with high-speed connectivity to access standard office applications.

Applications

- Remote access – high-speed access to your corporate network, enabling access to company and customer information.
- Internet – access the internet at speeds up to 492kbps.
- Email – send and receive email via the internet or email applications.
- Telephony – make phone calls via a peripheral handset at the same time as accessing data applications.
- Streaming – select guaranteed data rates on demand to suit your application. Choose BGAN X-Stream™ for speeds in excess of 384kbps for live video broadcasting. Also supports ISDN at 64kbps.
- File transfer – send and receive large files.
- Store and forward – save and send files e.g. video.
The SAFARI™ is a Land Vehicular BGAN Terminal operating on the Inmarsat BGAN Satellite Network.

The SAFARI™ has one of the smallest Land Vehicular BGAN antennas in the market at 252 mm Dia x 119.12 mm H and weighs only 1.9kg. The complete system consists of three fully integrated units – an IP44 rated Transceiver Unit with built-in Wi-Fi, an IP66 rated Handset and an IP56 rated roof mounted Antenna Unit. The Antenna Unit is compact and lightweight, ideal for vehicles on-the-move. It has been designed for the most demanding environments – and is easy to carry when traveling around the world.

The SAFARI™ Land Vehicular BGAN Terminal offers the user standard voice (4kbps AMBE+2), optional 3.1 KHz high quality voice/fax, high speed Streaming and Standard IP data service for various applications, including internet browsing, email and file transfer.

The terminal allows simultaneous use of all services including voice/fax, data and SMS. Physical interfaces include, 2 x RJ11 for Voice and Fax, 2 x RJ45 for Ethernet LAN connections, a RS232 port for GPS output and 4 x GPIOs, for external control or indications.

**Key features**

- Easy to use and operate. Simply turn the unit on to create wireless hotspot
- Up to 464 Kbps download, 448 Kbps upload Internet speeds – Class 2 BGAN Terminal
- Wireless hotspot can connect any inrange device, laptop, smartphone, iPad
- Simple 3 piece design – Roof mount antenna, controller & handheld phone
- Phone voicemail, phone book, web portal for customization
- SMS texting with web accessible address book
- Fax (Group 3) capable
- Includes GPS output for GPIO’s for external applications
- Remote system access allows vehicle tracking and fleet management
EXPLORER 325
Compact voice and broadband solution in vehicles

The EXPLORER 325 is a compact BGAN system for on-the-move communication. The system consists of three fully integrated units – a transceiver, an IP handset and a roof mountable antenna with magnetic mounts.

Whether you’re engaged in humanitarian operations, cargo transportation, surveillance or telemedicine, you need easy deployable communications equipment you can always rely on. Regardless of time or place.

Key features

- Instant communication: Simply place the antenna on the roof, connect the antenna and your PC to the EXPLORER terminal, switch on the Thrane & Thrane IP Handset and the vehicle is turned into a mobile communication hub.
- Compact: The antenna is compact and lightweight, ideal for vehicles on-the-move. It is robust and durable, designed for use in demanding environments.
- No roaming charges: BGAN offers mobile broadband connectivity wherever you go at fixed pricing with no roaming. With the EXPLORER 325 you know your cost of communication regardless of the number of borders you cross.
Government teams can now connect at IP broadband speeds of up to 464 kbps while on-the-move using the world’s smallest mobile BGAN terminal—the Hughes 9450-C11.

The Hughes 9450-C11 terminal is fully approved for operation on Inmarsat’s Broadband Global Area Network (BGAN) satellite service and provides high performance, on-the-move connectivity for the most demanding environments. The Hughes 9450-C11 is a budget-friendly and highly competitive mobile terminal, ideal for government, first responders, public safety, mobile health care, and remote mobile fleet personnel.

Government crisis response planners and remote field personnel can collaborate reliably and efficiently with various agencies and headquarters staff using video, voice, and data simultaneously. As with all Hughes BGAN models, the Hughes 9450-C11 includes a built-in wireless Wi-Fi access point. The Hughes 9450-C11 terminal is IP-based and offers selectable, dedicated Quality of Service (QoS) levels.

**Features**

- Fully autonomous tracking antenna acquires and tracks the BGAN satellite signal while on-the-move
- Simultaneous use of Ethernet and WLAN for IP data plus RJ-11 or ISDN for voice
- Internal Web User Interface (UI) for configuration and control without the use of LaunchPad
- Web UI is accessible via Wi-Fi-enabled PC, PDAs, BlackBerry™ and iPhones™
- Auto context activation feature allows data connections to be activated without user action
- Multi-user capability (up to 11 simultaneous sessions)
GLOCOM GX-11
Compact, economical vehicle terminal

Glocom’s GX-11 is a compact, economical Inmarsat BGAN land vehicular user terminal designed to support a variety of broadband global area network services including IP packet data, Streaming, ISDN 3.1kHz audio or fax and secured voice, and low-rate AMBE telephony circuit-switched voice services.

GX-11 operates under the Inmarsat 4th generation satellites while the vehicle is in motion. GX-11 consists of two separate modules: ODU (Outdoor Unit) and IDU (Indoor Unit) and connected by a coaxial cable. The ODU features a helical antenna, a 2-axis stabilizer, a GPS receiver, and a front end RFU. The IDU contains an enhanced Class 11 core module with crystal oscillator durable for the vehicle shock/vibration environment, a wide range (11 to 32 vdc) DC/DC power module and an Interface Module housed in ruggedized chassis shock mount for desk top or rack installation. The GX-11 antenna/stabilizer is shielded in a low-profile cylindrical dome roughly 15cm in height and 28cm in diameter.

GLOCOM GX-10

Glocom’s GX-10 is an Inmarsat BGAN Class 10 land vehicular user terminal (LVUT) designed to support a variety of broadband global area network services including IP packet data, ISDN UDI (64kbps) 3.1kHz audio or fax and secured voice, and low-rate AMBE telephony circuits switched voice services.

GX-10 operates under the Inmarsat 4th generation satellites while the vehicle is in motion. GX-10 consists of two separate modules: ODU (Outdoor Unit) and IDU (Indoor Unit) and connected by a coaxial cable. The ODU features a helical antenna, a 2-axis stabilizer, a GPS receiver, and a front end RFU. The IDU contains an enhanced Class 10 core module with crystal oscillator durable for the vehicle shock/vibration environment, a wide range (11 to 32 vdc) DC/DC power module and an Interface Module housed in ruggedized chassis shock mount for desk top or rack installation. The GX-10 antenna/stabilizer is shielded in a low-profile cylindrical dome roughly 15cm in height and 49cm in diameter.
EXPLORER 727

High speed broadband on the move

Today’s requirements for dynamic rapid response and deployable communications have never been more critical. To meet this demand Thrane & Thrane has developed the EXPLORER 727 – thus turning your vehicle into a mobile communications hub.

This means that you will have access to phone networks and the Internet while you are on the move anytime and anywhere in the world. The EXPLORER 727 antenna on the roof is constantly tracking satellite positions, which provides you with a high speed broadband connection at all times. Whether you’re engaged in military training, disaster response, telemedicine, or video conferencing, you need to rely on rapid response and deployable communications.

The EXPLORER 727 is unparalleled in the industry today with its robust, reliable and durable design. The EXPLORER 727 was developed with focus on High Speed Broadband on the Move solutions for key markets, including: Department of Defence (DoD), government and commercial organizations with broadband satellite communications requirements.

Typical applications

- Simultaneous voice and data
- Legacy analog and ISDN crypto devices
- IP crypto
- Surveillance
- Back-up
- Data collector
- Situation awareness
- Live broadcast
- High quality audio broadcasting
- Video conferencing
- Large file transfer
- Voice over IP (VoIP)
- VPN
- Access web and mail
- Stream video
- SIPR/NIPR
Imagine connecting at IP broadband speeds of up to 400+ kbps, uncompressed Internet access and voice while on the move—with a complete mobile communications package including a small interior modem and exterior auto-tracking antenna. That’s exactly what you receive with the breakthrough Hughes 9350 mobile satellite terminal.

For the highest performance available over the BGAN network, choose the 9350-C10 solution. The Hughes 9350 offers reliable connectivity on the move for the most demanding environments.

The Hughes 9350 is ideal for emergency responders, reporters and mobile workers who need reliable, high-speed connectivity on the move, such as:

➤ First responders and public safety workers

➤ Mobile health care technicians (telemedicine)

➤ Government crisis response planners

➤ Field personnel

Collaborate with staff back at headquarters using video, voice, and data simultaneously. It’s an instant wireless hot spot for team members on the scene using the built-in Wi-Fi Access Point.

The Hughes 9350 is IP based and offers selectable, dedicated Quality of Service levels (QoS). Easy to install on any vehicle—the tracking antennas use a single cable connection and are available with a magnetic roof mount.

The Hughes 9350 allows you to send and receive IP packet data via Ethernet and WLAN interfaces in a land-vehicular application. In parallel with the packet data services, the same terminal supports a circuit switched voice call or a 64 kbps ISDN data call.
HARRIS RF-7800B-VU104

Ruggedized BGAN SOTM terminal

The RF-7800B-VU104 BGAN Terminal provides a tactical radio network capability that enhances the FALCON III® multiband radio family. The RF-7800B-VU104 is a Class 10 BGAN SATCOM-on-the-Move (SOTM) Terminal that provides data rates of up to 492 kbps while on the move. The RF-7800B-VU104 is the only rugged BGAN SOTM terminal available today.

The RF-7800B-VU104 antenna may be permanently mounted on a vehicle and continuously tracks with the INMARSAT satellite for successful communications. The RF-7800B-VU104 can be considered for global network connectivity solutions when used with a computer for standalone terminal applications such as law enforcement, homeland security, or humanitarian and disaster relief efforts.

When used with the AN/PRC-117G(V)1(C) or the RF-7800M-MP manpack radios, the terminal provides a multi-mode system that utilizes ad-hoc networking to route automatically between mobile wideband networked line-of-sight (LOS) nodes, adding global beyond-line-of-sight (BLOS) satellite connectivity. The Falcon III integrated system manages Inmarsat subscriber costs through the automated routing between ANW2 LOS and BLOS nodes. The system is designed to ensure a seamless tactical network-centric BLOS connectivity to the existing FALCON III tactical networks, providing secure IP data transfer capability and increased communications reliability. When used with the Falcon III manpack radios, the Harris BGAN terminals can provide an increased effective throughput of up to 2 Mbps over the Inmarsat network due to TCP/IP acceleration and compression algorithms within the ANW2 waveform further reducing Inmarsat subscriber costs.

The Harris BGAN Terminal IP data is encrypted by the Sierra II™ Type-1 algorithms in the AN/PRC-117G or the Acropolis™ II AES encryption algorithms in the RF-7800M-MP. The embedded software of the manpack radio provides the ability to configure, remotely control and provide status and fault monitoring of the RF-7800B-VU104 BGAN Terminal using the radio’s front panel, making it the easiest BGAN terminal to set up and operate.
About the Inmarsat U.S. Government Business Unit

Inmarsat is a trusted provider of global, mobile satellite communication services that meet the mission-critical needs of the U.S. defense, intelligence, homeland security and civilian organizations. Since 1979, Inmarsat has delivered highly reliable, secure and affordable satellite services that satisfy expeditionary, maritime and aeronautical communication requirements anytime, anywhere.

The Inmarsat U.S. government business model reaches the market through value-added resellers, partners and service providers who enhance its services with specialized solutions government users need. For more information, please visit inmarsat.com/government.

How to Buy

Our services are available globally through Inmarsat U.S. government value-added resellers, distribution partners and service providers. To learn more, please visit inmarsat.com/partners.