Inmarsat Public Safety Solutions
Reliable, mobile, cost-effective communications
We connect those who protect

Inmarsat provides more than just airtime, we provide communications solutions by working with the world’s best partners to bring the world’s best technology as well as intimate customer service to our government clients.

Local Presence,

Local presence, local knowledge, local support

Inmarsat is extremely proud of its 30+ years heritage of supporting a wide range of government customers around the world. Our network of regional offices work closely with local partners, to provide a hub of support for our government clients. Through these partnerships, we can work together to understand your operational requirements and provide solutions that meet your regionally specific communications needs.

Global Reach

Trusted, Reliable, Global

› 20 GHB bandwidth on 50 satellites
› 30 GBPS Terrestrial Network Capacity
› 600 Value Added Partners
› Over 1600 Employees in 40 countries
› Over 500,000 active registered terminals
› Secure broadband network access anywhere, anytime.
Interoperability

As the world’s leading global mobile satellite services provider, Inmarsat is the commercial network government clients can depend on in the South American region and the reliable common platform in the coordination of public safety operations.

With your satellite communications links entrusted to Inmarsat, your efforts can be more efficiently concentrated on the recovery task at hand. With Inmarsat as your public safety partner, you are safe in the knowledge that you have access to the resources of a global communications powerhouse backed up by the local support of a strong regional presence with expert in-country partners.

Your air, land and sea assets can all communicate with each other across platforms. A coordinated command centre can be immediately established amongst partner departments.
Instant Voice Communications

- Dependable connectivity
- High voice quality
- Voicemail, text and email messaging
- Operates over Inmarsat’s I-4 global geostationary satellites, ensuring call stability and reliable network connection
- Assistance button – sends GPS location data and text to pre-set emergency number
- Easy to use in multiple languages
- Bluetooth for hands-free use

**IsatPhone Pro**

A low-cost, handheld satellite phone that enables you to make calls anywhere around the globe – and comes with voicemail, text and email messaging, and GPS location data. Offers the ultimate combination of features and performance – including exceptional voice clarity – over the world’s most reliable satellite communications network.

- Operates at -20°C to +55°C, is dust and splash proof (IP54)
- Intuitive GSM-style interface and high-visibility colour screen with a larger keypad for easy dialling with gloves on.
- Battery life is one of the longest on the market, with up to 8 hours’ talk time and 100 hours standby.

**IsatPhone 2**

Available now – Inmarsat’s new-generation handheld satellite phone will keep you connected in the most extreme and remote locations. The new-generation IsatPhone 2 joins IsatPhone Pro in our handheld satellite phone portfolio – bringing more choice to customers wanting the reliability Inmarsat delivers.

- Extended battery capacity, 8 hours talk time and up to 160 hours standby
- Network registration in under 45 seconds
- Tracking – sends location information
- Incoming call alerts with antenna stowed
- Ergonomic and ruggedised handset
- Dust, splash and shock resistant (IP65, IK04)
- High-visibility, scratch-resistant transflective display readable in bright sunlight
- eCompass for enhanced pointing
- Alarm
- Minute Minder
IsatHub

Smart connectivity anywhere
The IsatHub is a global smart device connectivity service. The service can be accessed from your iPhone, iPad and/or iPad touch of Android™ device through the control app. This provides set-up assistance and gives you full control over access to the service as well as visibility of data usage from each device sharing the IsatHub connection. The voice app enables you to use your smart device to send and receive voice calls via IsatHub’s dedicated high-quality voice line, as well as text messages, even if your device is for WiFi use only.

IsatHub terminal
The first terminal to access the IsatHub service is Addvalue’s Wideye iSavi:

› Weighs 850g
› 179 x 170 x 30 mm
› IsatHub services supported
   › Standard IP (up to 384 / 240 Kbps)
   › Circuit switched voice
   › Text
› Battery: 2.5hr operating
› Wi-Fi range of 30 metres / 100 feet
› Built in SIP server
› Mains charger
› USB port for firmware updates only
› LED arrows for pointing assistance
BGAN: Live video streaming and broadband data

Inmarsat’s Broadband Global Area Network service – BGAN – is the world’s first mobile communications service to provide both voice and broadband data simultaneously through a single, highly compact device on a global basis. It is also the first to offer guaranteed data rates on demand.

When disaster strikes, the response has to be quick - with free flow of information. Our BGAN service delivers voice and broadband data across the globe and enables you to set up a reliable link, even when terrestrial networks have failed.

Government personnel, public safety workers and other established users of mobile satellite communications welcome the superior performance and lighter load of BGAN.

With BGAN you can set up a mobile field office in minutes. With a range of terminals varying in size and capability, there is a BGAN to suit every mission.
# Portable and fixed BGAN terminals

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Portable and fixed BGAN terminals</th>
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<tbody>
<tr>
<td><strong>Wideye™ Sabre™ I</strong></td>
<td>Voice and data, single-user device</td>
</tr>
<tr>
<td><strong>EXPLORER® 300</strong></td>
<td>Highly compact, robust device</td>
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<tr>
<td><strong>EXPLORER® 500</strong></td>
<td>High bandwidth, highly portable device</td>
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<tr>
<td><strong>HUGHES 9202</strong></td>
<td>High performance, highly compact</td>
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<tr>
<td><strong>EXPLORER® 700</strong></td>
<td>Multi-user device with extensive functionality</td>
</tr>
<tr>
<td><strong>EXPLORER® 710</strong></td>
<td>Multi-user device with extensive functionality</td>
</tr>
</tbody>
</table>

| Manufacturer | Addvalue Communications wideye.com.sg | Cobham cobham.com | Cobham cobham.com | Hughes BGAN.hughes.com | Cobham cobham.com | Cobham cobham.com |
| Dimensions (W x H x D) and weight | Portable and fixed BGAN terminals |
| **59 x 195 x 58mm 1.6kgs** | **217 x 168mm (1.4kgs)** | **217 x 218 x 52mm 1.4kgs** | **216 x 216 x 45mm 1.5kgs** | **399 x 297 x 51mm 3.2kgs** | **348 x 279 x 54mm 3.2 kg** | **Portable** |
| Portable / fixed | Portable | Portable | Portable | Portable and fixed | Portable | Portable |
| Standard IP | Up to 240 / 384kbps (send / receive) | Up to 240 / 384kbps (send / receive) | Up to 448 / 464kbps (send / receive) | Up to 448 / 464kbps (send / receive) | Up to 492kbps (send and receive) | over 1Mbps |
| Streaming IP | 32, 64kbps | 32, 64kbps | 32, 64, 128kbps | 32, 64, 128kbps | 32, 64, 128, 176, 256kbps | 650 Kbps |
| Voice and Fax | Via RJ-11, handset | Via RJ-11 or Bluetooth handset / headset | Via RJ-11 or Bluetooth handset or 3.1kHz audio | Via RJ-11 (x2) for voice | Via RJ-11 (x2), Bluetooth handset or 3.1kHz audio | 1 x Analogue RJ-11 phone/fax interface |
| ISDN | N/A | N/A | 64kbps via USB | 64kbps via RJ-45 | 64kbps via RJ-45 | UDI 64 kbps / RDI 56 kbps |
| Other data Interfaces | Ethernet | Ethernet | Ethernet, USB | Ethernet, Wi-Fi | 2 x Ethernet, USB, Wi-Fi, Digital I/O | Ethernet, Wi-Fi |
| Ingress protection | IP 54 | IP 54 | IP 54 | IP 55 | IP 52 (terminal) | IP 52 (terminal) |

*Manufacturer* Addvalue Communications wideye.com.sg Cobham cobham.com Cobham cobham.com Hughes BGAN.hughes.com Cobham cobham.com Cobham cobham.com
Communications on the Move
Compact voice and broadband solution

For when you need easily deployable communication equipment you can rely on. Regardless of time or place.

**Compact and discreet**
Most vehicular terminals comprise a roof-mountable antenna and in-car unit. Antennas are compact, relatively lightweight and discreet, so as not to draw attention.

**Global coverage**
BGAN is available across the globe, with the exception of the extreme polar regions, providing connectivity from wherever your business or operations take you. Vehicular BGAN terminals automatically track the satellite as you move, ensuring you stay connected.

** Totally flexible**
Supporting the latest IP services, as well as traditional circuit-switched voice and data, BGAN integrates seamlessly with corporate network and legacy applications. The vehicular antenna can be permanently or magnetically mounted to the roof of any suitable vehicle, be it a truck, bus or recreational vehicle (RV).

**Simultaneous voice and data**
BGAN provides simultaneous voice and broadband data up to 492 kbps. With a vehicular terminal, you can access email, the internet and other applications on the move.

**Easy to use**
No technical expertise or training is needed to set up and use BGAN. All terminals are plug and play, so you can go online within minutes.

**Secure**
BGAN meets military and government requirements for security and supports all major VPN products and encryption standards.
**Addvalue Safari**
The SAFARI™ is a ‘Comms On The Move’ BGAN terminal and is one of the smallest Land Vehicular BGAN antennas in the market. Offering seamless access to BGAN services up to 464kbps while on the road.

** Hughes 9450**
The world’s smallest mobile BGAN terminal, the Hughes 9450 connects you to BGAN’s Standard IP data service at rates up to 464 kbps while on-the-move. It has four Ethernet ports with Power over Ethernet (PoE), which allow the user to connect multiple devices.

** Hughes 9350**
High-performance connectivity on the move for the most demanding environments with the Hughes 9350. Offers Standard IP at up to 492kbps, supports circuit-switched voice or 64kbps ISDN data calls, and includes interfaces for Ethernet and WLAN.

**Cobham Explorer 727**
Cobham’s second-generation BGAN vehicular terminal, comprising a robust, compact, roof-mounted antenna, which constantly tracks the satellite while on the move, and a transceiver which is positioned inside the vehicle.

**Cobham Explorer 325**
A compact BGAN system for on-the-move communication. The Explorer 325 system consists of three fully integrated units – a transceiver, an IP handset and a roof mountable antenna with magnetic mount.
EXPLORER Push-To-Talk

Turns traditional satellite communication, cellular networks and the Internet into a closed managed Wide Area Network with beyond line-of-sight communication.

EXPLORER Push-To-Talk (PTT) is a rugged voice dispatch and communication system. It is a cost effective, IP based voice and data communication system designed to replace VHF/UHF based trunk radio systems widely used in search and rescue. The system extends classical Push–To–Talk capabilities to hybrid data networks such as terrestrial 2G/3G/GPRS networks (where available) supplemented by the Inmarsat BGAN satellite network where no terrestrial network coverage is present. With no user intervention required the system automatically routes voice and data traffic via the least expensive network available.

The EXPLORER PTT solution solves the majority of the built-in challenges inherent in existing VHF systems.

▷ The use of BGAN and already existing 2G/3G/GPRS networks extended the coverage area.

▷ Improved voice quality with IP based digital voice quality compared to the analogue VHF voice quality.

▷ No expensive infrastructure (no VHF towers, no fixed VSAT) and thereby lower maintenance costs.

▷ High quality voice but also an on-the-move internet connection.

The look and feel is exactly like the replaced VHF system - only a few buttons and easy push to transmit communication. A car installation includes a vehicular EXPLORER 325 BGAN terminal and a Push-To-Talk terminal with a hand microphone (fist-mike).

▷ Uses cellular networks as default.

▷ If one of the cellular networks is congested or unavailable the system will automatically switch to the other 3G network.

▷ If limited or no cellular coverage the system will switch to the Inmarsat BGAN satellite network.
ASIGN is built from the ground up with active collaboration with central, global, governmental institutions and organizations. Collaborative development together with United Nations agencies, national and international defence organisations, civil protection units, and others, have secured a basis for communication systems that

▷ saves time
▷ saves money
▷ secures better decisions
▷ is easy to set up and manage
▷ save lives, property, infrastructure and the environment

Full size digital photos produce large files, particularly as camera resolution is on the increase. However, government departments throughout the world are on a mission to decrease operating expenses. Sending large files over satellite are neither cost nor time efficient. This results in many operators filtering out and downsizing images for FTP or email transfer. However ASIGN allows all images the observer wants, in any resolution required, to be sent to an operations center.

High Quality: ASIGN is optimized for providing both rapid transfer and access to the highest quality photo and video information, even in remote areas. Simultaneously, full integration with photo triggering sensors allows for true multi-source observations.

Geo-Tagging: ASIGN supports direct GPS tagging and integrates with GIS and rapid mapping. Combined with human advice and computer processing, this is a powerful tool for situational awareness and quality management.

Low cost - High speed: ASIGN images can be received, processed and distributed worldwide in less than a minute after capture in a cost effective, fully controlled, manner.

Multicast distribution: ASIGN is the only solution supporting reliable satellite multicast using Inmarsat BGAN. Group sending with robust protocols can be used when multicast is not available.
Mobile Data Node
Access to mobile ‘apps’ in remote, hostile and extreme environments

Combining Inmarsat’s BGAN service with SEA’s MDN delivers a man-portable, global, 3G base station to even the most inhospitable theatres of engagement.

Government forces across the world continually seek ways to gain and maintain an operational edge. To do so, they are increasingly adopting the innovative and disruptive technologies sometimes referred to as the nexus of forces: social interaction, mobility, cloud and information.

Inmarsat has partnered with SEA to deliver the technology platform that underpins this innovation. Smartphones and tablets are powerful, versatile tools for information capture, data processing and communications. Mobile apps can rapidly and affordably deliver improvements in operational capability, in areas such as intelligence gathering, logistics, maintenance and telemedicine.

The global coverage of Inmarsat’s BGAN service and the exceptional portability and ease of use of both BGAN terminals and the Mobile Data Node make it possible to exploit the full operational potential of these mobile devices.

In combination, BGAN and the Mobile Data Node provide disaster recovery teams with a portable, easy-to-use and flexible way to maintain their broadband connection wherever they deploy. The Mobile Data Node’s 3G capability generates a “bubble” of cellular network connectivity 1km in diameter, within which users can use their mobile devices and smartphones. This powerful communications capability will enable governments to exploit the full potential of mobile apps to enhance capability beyond the terrestrial cellular footprint.
How to buy

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