Inmarsat’s BGAN (Broadband Global Area Network) services provide simultaneous voice and broadband data communications anywhere on the globe from small and lightweight satellite terminals. Proven and reliable, BGAN utilises Inmarsat’s L-band satellite constellation and has been enabling a broad range of use cases and industries since its launch in 2005.

While we have continued to innovate and develop the platform in line with our customers’ needs, BGAN has become the industry standard for mobile satellite connectivity, trusted by governments and businesses to deliver when other connectivity methods and other forms of satellite fail. BGAN supports up to 99.9% uptime making it ideal for business critical or safety communications, and unlike other forms of satellite will not suffer in adverse weather.

With a range of terminals, both mobile and vehicular, offering differing performance based on user need, it’s easy to get started using BGAN. All you need to do is connect your BGAN terminal to a portable PC or smart device using Standard IP to access the internet for applications such as web browsing and email, or choose from a range of guaranteed Streaming IP rates to meet all your data, voice and video needs.

**WHY INMARSAT?**

- **Global**
  Seamless global satellite network and support
- **Reliable**
  Unrivalled record operating critical safety networks for over 40 years
- **Secure**
  Trusted by governments to safeguard digital assets
- **Innovation**
  Continued investment to deliver advanced new capabilities
- **Technical expertise**
  Ready to support and enable your projects

**HOW WE WORK**

Accessing Inmarsat’s award-winning connectivity is simple: either we work with you to build a bespoke solution, which we manage on an ongoing basis, or you procure hardware and airtime through our global partner network.

BGAN: TRUSTED TO CONNECT YOU ANYWHERE
Inmarsat’s BGAN service provides simultaneous data and voice communications via satellite to a range of compact terminals. Delivered by our satellite network operating in the L-band, the core service achieves availability rates of 99.9 per cent and security that meets military and government standards. BGAN is capable of being used in both fixed and vehicular applications, achieving Standard IP data speeds of up to 492kbps and streaming speeds from 32bps to 800kbps (BGAN HDR).

BGAN HDR (High Data Rate) supports a portfolio of high data streaming rates. Users can expect to experience speeds of up to 800kbps, making it ideal for broadcasters, media organisations and governments looking to deliver superior video quality anywhere in the world. For even faster speeds, terminals can be bonded together, enabling connection speeds of over 1Mbps, which was previously only possible with a VSAT uplink.

Inmarsat’s Push-to-Talk (PTT) service enables organisations to access real-time communications and telemetry capabilities so they can keep track of remote workers and assets wherever they are. Built on our BGAN service, with a walkie-talkie style voice component, use cases include cabin communications for rail, fleet management and remote worker vehicles.
**WHY CHOOSE BGAN?**

**SIMULTANEOUS VOICE AND DATA**
A single BGAN terminal provides simultaneous voice and broadband data up to 492kbps, enabling you to access the internet or send email, and talk on the phone at the same time.

**GLOBAL COVERAGE**
BGAN is available across the globe, with the exception of the extreme Polar Regions, providing connectivity wherever your business or operations take you.

**RELIABLE NETWORK**
BGAN services are delivered via Inmarsat’s L-band network, with 99.9 per cent satellite and ground network availability and an operational lifespan into the 2030s and beyond.

**SECURE**
BGAN meets military and government requirements for security and supports all major VPN products and encryption standards.

**EASY TO INTEGRATE**
Supporting the latest IP services, as well as traditional circuit-switched voice and data, BGAN integrates seamlessly with corporate networks and legacy applications.

**STREAMING IP**
BGAN supports a range of guaranteed on-demand Streaming IP rates from 32kbps up to 800kbps when using BGAN HDR.

**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 be online within minutes.

**MOBILE OR VEHICULAR HARDWARE**
Choose between mobile or vehicular BGAN options so you stay connected wherever you are.
WHERE IS BGAN MAKING A DIFFERENCE?

- Remote workers for office connectivity and video-conferencing
- Enabling Aid & NGO first responders to communicate from disaster scenes and carry out situational analysis
- Exploration teams for oil and gas, construction and mining sectors to stream visual data from site surveys
- Remote offices – portable connectivity to office systems
- Media
  - live video broadcasting – store and forward of video files
  - remote connectivity with HQ
- Train operators for telemetry, rail signalling and push-to-talk capabilities
- Maintenance fleets for telemetry and push-to-talk capabilities

BGAN CAPABILITIES
- Internet and intranet access
- Email and file transfer
- Video conferencing
- Live video / audio, broadcasting
- Telephone and SMS
- Push-to-talk (PTT)
- Secure VPN
- Encryption
- WAN
- VoIP and remote GSM
- Telemetry and GPS
Inmarsat offers a wide range of service plans that are tailored to the needs of the customer. For a full range of service plans please contact your Inmarsat Account Manager.

<table>
<thead>
<tr>
<th>SERVICE PLANS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BGAN SINGLE SIM PLANS</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Subscription plans</strong></td>
</tr>
<tr>
<td><strong>Term Options</strong></td>
</tr>
</tbody>
</table>

| **BGAN LINK** |
| **Description** | If broadband data users require high monthly volumes of always-on Standard IP data for sustained periods of time. BGAN Link enables companies operating in remote regions to rapidly establish office capabilities and tools, including email, web browsing and VPN. |
| **Subscription plans** | 2.5, 5, 10 and 30GB in 3 and 12 month minimum commitment available regionally. |
| **Term Options** | 3 and 12 months. |

| **SCAP (SHARED CORPORATE ALLOWANCE)** |
| **Description** | The regular SCAP plans are aimed at individual corporate entities buying a large number of SIMs for extended durations. These projects are often geared toward opening up new, strategic markets. |
| **Subscription plans** | There are minimum durations and billing increments applicable to all traffic types. Besides individual service prices, the service components are also available via pre-defined subscription based packages with set minimum contract terms. Options include paid and post-paid packages, depending on the plan involved. |
| **Term Options** | 12 month. |
Inmarsat’s BGAN service is accessible via small, lightweight, satellite terminals, which are quick to set up and easy to use. A range of terminals are available for land, fixed and vehicular use, providing performance options to suit different operational needs. The service is accessed using the Inmarsat LaunchPad interface, which is standard across all terminals.

### Portable and fixed terminals

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Portable / fixed</th>
<th>Manufacturer</th>
<th>Dimensions (W x H x D)</th>
<th>Weight</th>
<th>Standard IP (kbps) (send / receive)</th>
<th>Streaming IP (kbps)</th>
<th>Voice and fax</th>
<th>ISDN</th>
<th>Other data interfaces</th>
<th>Ingress protection</th>
<th>Ingress protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>SABRE RANGER 5000</td>
<td>Fixed terminal with integrated antenna</td>
<td>Fixed</td>
<td>Addvalue Innovation Pte Ltd</td>
<td>241 x 239 x 71mm</td>
<td>2.5kg</td>
<td>Up to 448/464kbps (send / receive)</td>
<td>32, 64, 128kbps</td>
<td>N/A</td>
<td>N/A</td>
<td>Ethernet, USB, GPR, RS232</td>
<td>IP 66</td>
<td>IP 66</td>
</tr>
<tr>
<td>EXPLORER 510</td>
<td>Ultra portable high bandwidth, easy to use</td>
<td>Portable and fixed</td>
<td>Cobham SATCOM</td>
<td>202 x 202 x 52mm</td>
<td>1.4kg</td>
<td>Up to 448/464kbps (send / receive)</td>
<td>32, 64, 128kbps</td>
<td>Via WiFi or SIP (EXPLORER Connect App)</td>
<td>N/A</td>
<td>Ethernet, USB, GPR, RS232</td>
<td>IP 66</td>
<td>IP 66</td>
</tr>
<tr>
<td>EXPLORER 540</td>
<td>Fixed terminal with integrated antenna</td>
<td>Fixed</td>
<td>Cobham SATCOM</td>
<td>202 x 209 x 52.1mm</td>
<td>1.6kg</td>
<td>Up to 492kbps (send and receive)</td>
<td>32, 64, 128kbps</td>
<td>Via RJ-11, 3.1kHz audio or IP handset</td>
<td>N/A</td>
<td>Ethernet, USB, GPR, RS232</td>
<td>IP 66</td>
<td>IP 66</td>
</tr>
<tr>
<td>EXPLORER 710</td>
<td>Enhanced functionality and BGAN HDR compatible</td>
<td>Portable and fixed</td>
<td>Cobham SATCOM</td>
<td>279 x 332 x 52mm</td>
<td>3.5kg</td>
<td>Up to 492kbps (send and receive)</td>
<td>32, 64, 128kbps</td>
<td>Via RJ-11 (x2) for voice</td>
<td>N/A</td>
<td>Ethernet, USB, GPR, RS232</td>
<td>IP 66</td>
<td>IP 66</td>
</tr>
<tr>
<td>HUGHES 9211-HDR</td>
<td>Smallest, lightest BGAN HDR terminal</td>
<td>Portable and fixed</td>
<td>Hughes BGAN</td>
<td>292 x 232 x 51mm</td>
<td>2.0kg</td>
<td>Up to 448/464kbps (send / receive)</td>
<td>32, 64, 128kbps</td>
<td>Via RJ-11 (x2) for voice</td>
<td>N/A</td>
<td>Ethernet, USB, GPR, RS232</td>
<td>IP 66</td>
<td>IP 66</td>
</tr>
<tr>
<td>HUGHES 9202</td>
<td>High performance, highly compact</td>
<td>Portable and fixed</td>
<td>Hughes BGAN</td>
<td>216 x 216 x 45mm</td>
<td>1.4kg</td>
<td>Up to 492kbps (send and receive)</td>
<td>32, 64, 128kbps</td>
<td>Via RJ-11 (x2) for voice</td>
<td>N/A</td>
<td>Ethernet, USB, GPR, RS232</td>
<td>IP 66</td>
<td>IP 66</td>
</tr>
<tr>
<td>HUGHES 9502</td>
<td>Fixed terminal with external antenna</td>
<td>Fixed</td>
<td>Hughes BGAN</td>
<td>275 x 275 x 84mm</td>
<td>3.8kg</td>
<td>Up to 492kbps (send and receive)</td>
<td>32, 64, 128kbps</td>
<td>N/A</td>
<td>N/A</td>
<td>Ethernet, USB, GPR, RS232</td>
<td>IP 66</td>
<td>IP 66</td>
</tr>
<tr>
<td>HUGHES 9502</td>
<td>Fixed terminal with integrated antenna</td>
<td>Fixed</td>
<td>Hughes BGAN</td>
<td>275 x 275 x 84mm</td>
<td>3.8kg</td>
<td>Up to 492kbps (send and receive)</td>
<td>32, 64, 128kbps</td>
<td>N/A</td>
<td>N/A</td>
<td>Ethernet, USB, GPR, RS232</td>
<td>IP 66</td>
<td>IP 66</td>
</tr>
</tbody>
</table>

1 These terminals can be used to access BGAN Link, Inmarsat’s fixed broadband data service for long-term use
2 These terminals have been optimised for machine-to-machine connectivity
3 Asymmetric BGAN HDR streaming rates only
## Vehicular Terminals

A wide range of vehicular BGAN terminals are also available, providing reliable connectivity on the move. Whether users require push-to-talk, multi-user or wireless capabilities, there is a robust, high performance terminal to suit individual needs.

<table>
<thead>
<tr>
<th>EXPLORER® 323</th>
<th>EXPLORER® 325</th>
<th>HUGHES 9450-C11</th>
<th>EXPLORER® 727</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated Auto-tracking antenna with no moving parts</td>
<td>Compact, lightweight, robust system</td>
<td>Highly compact, high performance system</td>
<td>Multi-user device with extensive functionality</td>
</tr>
<tr>
<td><strong>Dimensions (W x H x D) and weight</strong>&lt;br&gt;Integrated Antenna/Terminal 97 x Ø321 mm, 3.6kg</td>
<td><strong>Dimensions (W x H x D) and weight</strong>&lt;br&gt;Terminal 231 x 278 x 49mm, 2.4kg Antenna 349 x 128mm, 3.4kg</td>
<td><strong>Dimensions (W x H x D) and weight</strong>&lt;br&gt;Terminal 234 x 281 x 46mm, 2.3kg Antenna 252 x 119mm, 3kg</td>
<td><strong>Dimensions (W x H x D) and weight</strong>&lt;br&gt;Terminal 247 x 270 x 43mm, 2.5kg Antenna 477 x 160mm, 9kg</td>
</tr>
<tr>
<td><strong>Standard IP</strong>&lt;br&gt;Up to 384 / 225 kbps (&gt;20° elevation)&lt;br&gt;Up to 270 / 158 kbps (&gt;5° elevation)</td>
<td><strong>Standard IP</strong>&lt;br&gt;Up to 448 / 464kbps (send / receive)</td>
<td><strong>Standard IP</strong>&lt;br&gt;Up to 448 / 464kbps (send / receive)</td>
<td><strong>Standard IP</strong>&lt;br&gt;Up to 492kbps (send and receive)</td>
</tr>
<tr>
<td><strong>Streaming IP</strong>&lt;br&gt;32, 64kbps</td>
<td><strong>Streaming IP</strong>&lt;br&gt;32, 64, 128kbps</td>
<td><strong>Streaming IP</strong>&lt;br&gt;32, 64, 128kbps</td>
<td><strong>Streaming IP</strong>&lt;br&gt;32, 64, 128, 256kbps BGAN X-Stream™ on-the-pause</td>
</tr>
<tr>
<td><strong>Voice and fax</strong>&lt;br&gt;4 kbps (AMBE+2) via SIP</td>
<td><strong>Voice and fax</strong>&lt;br&gt;1 RJ-11 port for voice</td>
<td><strong>Voice and fax</strong>&lt;br&gt;Via RJ-45 ISDN handset, via ISDN TA with two RJ-11 ports for voice or 3.1kHz for audio / fax</td>
<td><strong>Voice and fax</strong>&lt;br&gt;2 RJ-11 ports for voice and 3.1kHz audio / fax</td>
</tr>
<tr>
<td><strong>ISDN</strong>&lt;br&gt;N/A</td>
<td><strong>ISDN</strong>&lt;br&gt;N/A</td>
<td><strong>ISDN</strong>&lt;br&gt;56 / 64kbps²</td>
<td><strong>ISDN</strong>&lt;br&gt;56 / 64kbps³</td>
</tr>
<tr>
<td><strong>Other data interfaces</strong>&lt;br&gt;1x Ethernet, WiFi</td>
<td><strong>Other data interfaces</strong>&lt;br&gt;2 x Ethernet</td>
<td><strong>Other data interfaces</strong>&lt;br&gt;4 x PoE Ethernet, WiFi with extended standard connector</td>
<td><strong>Other data interfaces</strong>&lt;br&gt;4 x Ethernet, USB</td>
</tr>
<tr>
<td><strong>Ingress protection</strong>&lt;br&gt;IP 66</td>
<td><strong>Ingress protection</strong>&lt;br&gt;IP 31 (terminal)&lt;br&gt;IP 56 (antenna)</td>
<td><strong>Ingress protection</strong>&lt;br&gt;IP 40 (terminal)&lt;br&gt;IP 56 (antenna)</td>
<td><strong>Ingress protection</strong>&lt;br&gt;IP 31 (terminal)&lt;br&gt;IP 56 (antenna)</td>
</tr>
</tbody>
</table>

1 Inmarsat supports 256kbps streaming at elevations above 45 degrees. Below this elevation, the 128kbps streaming connection is recommended.
2 Depending on location. Inmarsat supports ISDN at elevations above 45 degrees.
3 Depending on location. Inmarsat supports ISDN at elevations above 20 degrees.
**OUR CONNECTIVITY SERVICES**

<table>
<thead>
<tr>
<th>LAND XPRESS</th>
<th>BGAN</th>
<th>BGAN M2M</th>
<th>ISATDATA PRO</th>
<th>ISATPHONE 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ka-band</td>
<td>L-band</td>
<td>L-band</td>
<td>L-band</td>
<td>L-band</td>
</tr>
<tr>
<td>Up to 16 Mbps receive, 4 Mbps send</td>
<td>492kbps</td>
<td>Up to 448 / 464kbps (send / receive)</td>
<td>6400 / 10,000 bytes (send / receive)</td>
<td>2.4kbps voice codec</td>
</tr>
<tr>
<td>VoIP, video conferencing, VPN access, email, live video, and audio streaming, high-speed broadband for internet access, high-speed file transfer, video surveillance</td>
<td>Email, internet access, Video conferencing, video transfer, voice, file transfer, IP SCADA, data backup, telemetry</td>
<td>IP and non-IP SCADA, secure ATM/PoS solutions, automation, remote fixed asset monitoring, including telemetry and surveillance, VPL</td>
<td>Asset tracking, fleet management, industrial automation, remote monitoring and control, workflow automation, in-cab dispatch and messaging, IoT and cellular hybrid capabilities</td>
<td>Voice, SMS, short-message email, tracking and emergency assistance</td>
</tr>
</tbody>
</table>

**L-BAND I-4 COVERAGE**

- Combined I-4 coverage
- I-4 F1
- I-4 F2
- I-4 F3
- I-4 F4

**KA-BAND I-5 COVERAGE**

- GX1
- GX2
- GX3
- GX4
- GX5

- Global Xpress network available over at least 99% of this area
- Extendable Global Xpress coverage via steerable beam

This map is for general purposes only and guarantee is given of accuracy or fitness for a particular use. Coverage is subject to change at any time.

This map is for general purposes only and guarantee is given of accuracy or fitness for a particular use. Coverage is subject to change at any time.
ABOUT ENTERPRISE

Inmarsat Enterprise is enabling safer, more efficient, more sustainable operations wherever businesses operate on land. Our customers trust us to deliver the industry standard in reliable mobile satellite connectivity, underpinning mission critical communications, remote operations, machine-to-machine (M2M) applications and the Industrial Internet of Things (IIoT). With expertise in agriculture, aid and NGO, media, mining, oil and gas, renewables, transport and utilities we work with our partners to build solutions that deliver transformational outcomes and ensure the right level of ongoing management.

ABOUT INMARSAT

Inmarsat is the leading provider of global mobile satellite communications services. Since 1979, Inmarsat has been providing reliable voice and high-speed data communications to governments, enterprises and other organisations, with a range of services that can be used on land, at sea or in the air. Inmarsat operates around the world, with a presence in the major ports and centres of commerce on every continent. For more information, please visit www.inmarsat.com.

Contact us:
E enterprisemarketing@inmarsat.com
W Inmarsat.com/Enterprise

While the information in this document has been prepared in good faith, no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability whatsoever arising is or will be accepted by the Inmarsat group or any of its officers, employees or agents in relation to the adequacy, accuracy, completeness, reasonableness or fitness for purpose of the information in this document. All and any such responsibility and liability is expressly disclaimed and excluded to the maximum extent permitted by applicable law. Coverage as shown on maps is subject to change at any time. INMARSAT is a trademark owned by the International Mobile Satellite Organization, licensed to Inmarsat Global Limited. The Inmarsat LOGO and all other Inmarsat trademarks in this document are owned by Inmarsat Global Limited. © Inmarsat Global Limited. All rights reserved. BGAN brochure October 2020.