EXPLORER BGAN Series

COBHAM

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The most important thing we build is trust

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Cobham is an international company engaged in the development, delivery and support of leading edge aerospace and defence technology and systems.

Cobham's products and services have been at the heart of sophisticated military and civil systems for more than 75 years, keeping people safe, improving communications, and enhancing the capability of land, sea, air and space platforms.

The Company has three divisions employing more than 10,000 people on five continents, with customers and partners in more than 100 countries

Cobham SATCOM is backed by 1,000 highly qualified and dedicated employees in Denmark, the US and South Africa with strategically placed regional sales offices. Our products are developed, marketed and sold worldwide under the brands SEA TEL, SAILOR, AVIATOR and EXPLORER.

The EXPLORER BGAN Series

The EXPLORER BGAN Series is a well proven and thoroughly tested range of satellite terminals utilising Inmarsat's Broadband Global Area Network technology, proviing instant and reliable voice and broadband access regardless of time and place.

EXPLORER Series have been designed to withstand even the most extreme conditions. This is to support harsh environments and situations a professional might experience working in the field – providing the ability to still deliver the quality and performance demanded

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EXPLORER Series cover the need for portability as well as flexibility. The Series consists of three highly portable and

lightweight terminals (maximum the size of an average laptop) and two vehicular terminals with satellite tracking antennas making it possible to stay connected, even while moving in excess of 200 km/h.

All EXPLORER terminals excel in being easy to set-up and easy to operate; thereby, mini-mizing the level of operator skill required and ultimately optimising processes. Simply just connect a PC or phone, point the terminal towards a satellite (guided by the built-in compass and sound indicator) and you are instantly connected to the world.

EXPLORER terminals are mobile, plug'n'play satellite communication platforms for professionals working off the beaten track.

Key benefits for EXPLORER series:

- Complete communication platform
- Seamless global broadband connection
- Highly portable and reliable connectivity
- Instant mobile access to your office
- Easy-to-operate, simple user-interface
- Know your costs: standard prices, no roaming
- A terminal to use worldwide

Portable BGAN Terminals

EXPLORER 300

Compact – for individual usage

- The smallest terminal in the EXPLORER series. Weighs only 1.4 kg. Dimensions: 16.8 x 21.7 x 5.2 cm

- A single-user terminal: Ideal if your primarily need voice, or moderate speed standard IP internet access

- Compact: Easy to carry, simple system set-up and operation

EXPLORER 500

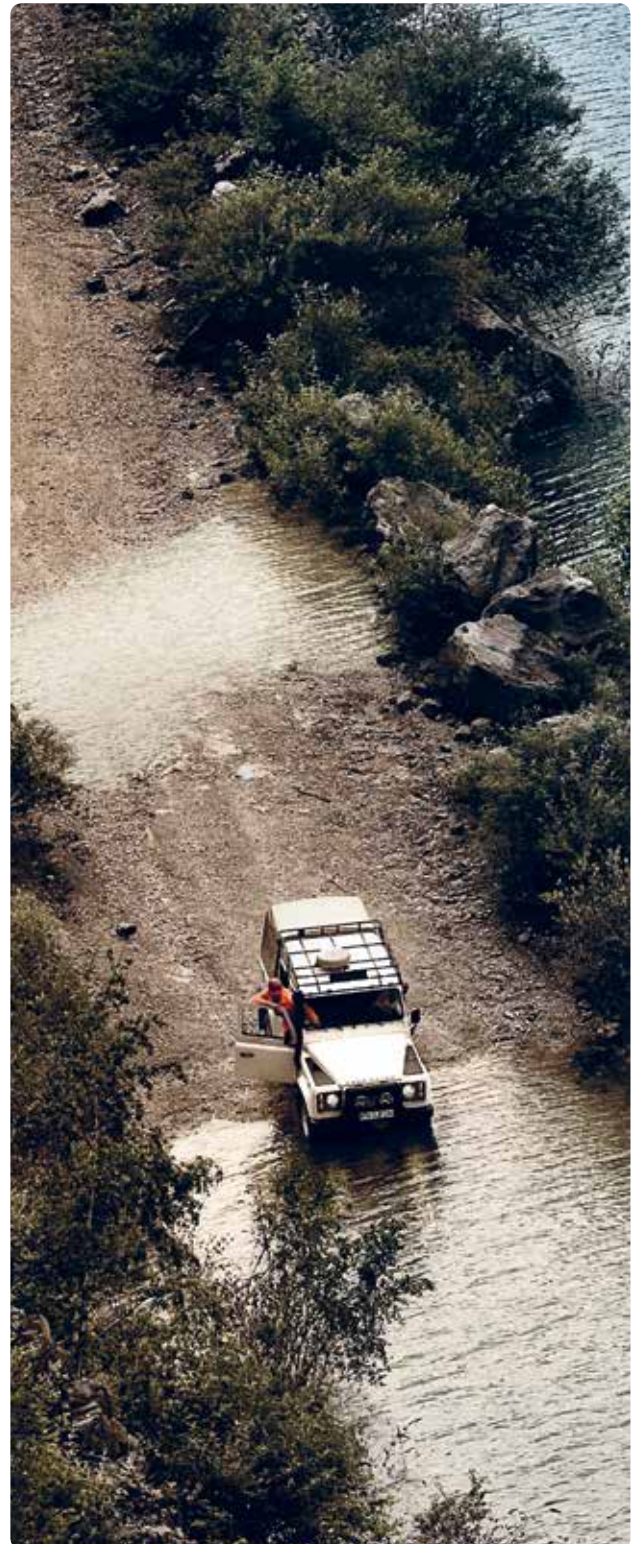### Performance and portability combined

- The most used terminal in the world of BGAN. Unmatched in deployed quantities, the EXPLORER 500 is the preferred choice to support a broad variety of applications

- Powerful: The ideal combination of performance and portability. Provides simultaneous high quality voice and broadband access at speeds up to 464 kbps. It supports LAN, USB, Bluetooth and phone/fax interfaces

- Lightweight: Weighing only 1.4 kg and smaller than a standard laptop. Easy to carry along when travelling the world

EXPLORER 700

When versatility and high-speed matters

- Versatility: The flagship in the EXPLORER series provides multiple interfaces to support a wide range of applications. Ideal for video streaming applications and large file transfer and can be used by smaller workgroups sharing a temporary or semi-permanent office environment

- High-speed: The fastest BGAN terminal on the market supporting download and upload at 492 kbps. Moreover, it supports Inmarsat's BGAN X-Stream, on-demand streaming at +384 kbps for applications demanding high speed QoS

- Rough environments: Designed to withstand severe environmental conditions such as humidity, dust, extreme weather and changing temperatures

Vehicular BGAN Terminals

EXPLORER 325

Compact voice and broadband solution for vehicles

- Instant communication: Simply place the antenna on the roof, connect the antenna and your PC to the EXPLORER terminal, switch on the IP Handset and the vehicle is turned into a mobile communication hub

- Compact: The auto tracking antenna is compact and lightweight, ideal for vehicles on-the-move. It is designed for robust and durable use

- No roaming: BGAN offers mobile broadband connectivity wherever you go at fixed pricing with no roaming fees. With the EXPLORER 325 you know your cost of communication regardless of the number of borders you cross

EXPLORER 727

Best in class communication hub for vehicles

- High-speed broadband on-the-Move: Automatically tracks satellite positions enabling connectivity while on-the-move. Simultaneous 432 kbps data and phone calls – even at speeds in excess of 200 km/h

- Mobile communication Hub: Place the antenna on the roof to turn it into a complete mobile communication hub. Provides access to the internet and phone networks instantly

- Live streaming - or store-and-forward: Facilitates both live streaming and store-and-forward. Utilise the highest streaming rates available on BGAN with BGAN X-Stream when the terminal is standing still

EXPLORER BGAN comparison guide

	EXPLORER 325	EXPLORER 727	EXPLORER 300	EXPLORER 500	EXPLORER 700
Weight	5.8 kg	8.5 kg	1.4 kg	1.4 kg	3.2 kg
Size (H x W x D)	Terminal 41 x 231 x 278 mm Antenna 128 x Ø349 mm	Terminal 43 x 231 x 273 mm Antenna 152 x Ø477 mm	170 x 217 x 52 mm	218 x 217 x 52 mm	290 x 399 x 51 mm
Battery	-	-	Li-Ion – 30h standby 3h – standard voice 1h30 upload @ 96 kbps	Li-Ion – 36h standby 3h – standard voice 2h10 upload @ 128 kbps 1h35 PSTN 2h10 Streaming @ 128kbps	Li-Ion – 36h standby 5h – standard voice 4h upload @ 128 kbps 4h ISDN/PSTN 3h Streaming @ 256 kbps
Ingress Protection Rating	Terminal IP31 Antenna IP56	Terminal IP31 Antenna IP56	IP54	IP54	Terminal IP52 Antenna IP66
Single/Multi-user	Multi	Multi	Single (1 IP-address)	Multi	Multi
Standard Voice	4 kbps (AMBE+2)	4 kbps (AMBE+2)	4 kbps (AMBE+2)	4 kbps (AMBE+2)	4 kbps (AMBE+2)
Premium Voice	-	3.1 kHz Audio, 64 kbps (>20˚ elevation on-the-move) (>5˚ elevation on-the-pause)	-	3.1 kHz Audio, 64 kbps	3.1 kHz Audio, 64 kbps
ISDN Data	-	UDI 64 kbps / RDI 56 kbps (>20˚ elevation on-the-move) (>5˚ elevation on-the-pause)	-	UDI 64 kbps / RDI 56 kbps (only via USB/BT)	UDI 64 kbps / RDI 56 kbps
Standard IP	Up to 464 kbps	Up to 492 kbps	Up to 384 kbps	Up to 464 kbps	Up to 492 kbps
Streaming IP	32, 64, 128 kbps	32, 64, 128, 256 kbps (256kbps >45˚ elevation on-the-move)	32, 64 kbps	32, 64, 128 kbps	32, 64, 128, 256 kbps
BGAN X-Stream	-	Minimum 384 kbps	-	-	Minimum 384 kbps
Text (SMS)	160 characters	160 characters	160 characters	160 characters	160 characters
LAN (Ethernet)	2 ports	4 ports	1 port	1 port	2 ports
ISDN	-	1 port	-	-	2 ports
Phone/Fax (2-wire)	1 port	2 ports	1 port	1 port	2 ports
USB	-	-	-	1 port	1 port
WLAN	-	-	-	-	802.11a/b/g
Bluetooth	-	-	Class 2	Class 1	Class 1
Antenna	Separate (<50m)	Separate (<50m)	Integrated	Integrated	Detachable (<100m)

EXPLORER Terminology

BGAN: Broadband Global Area Network – Inmarsat's terminology for their latest satellite network with global coverage providing both voice and broadband data.

Standard IP: Background IP service, that provides a varying bit rate data transfer.

Streaming IP: Streaming is a technique for transferring data to be processed as a continuous stream, e.g. live video or audio, typically demanding high bandwidth. Streaming IP is an on-demand guaranteed service.

BGAN X-Stream: Inmarsat's premium IP streaming service. It guarantees on demand streaming data rates from a minimum of 384 kbps up to 450 kbps.

Standard Voice: Provides global telephone service (incl. voicemail) and requires very low bandwidth – only 4 kbps for the price of less than $1 per minute no matter where you are travelling and whom you are calling.

Premium Voice: Uncompressed audio in pristine quality, using more bandwidth than standard voice. Provides more advanced services as e.g. call waiting, call holding, call barring and call forwarding.

Ingress Protection: Specifies the environmental protection the enclosure of the terminal provides against solid objects and liquids.
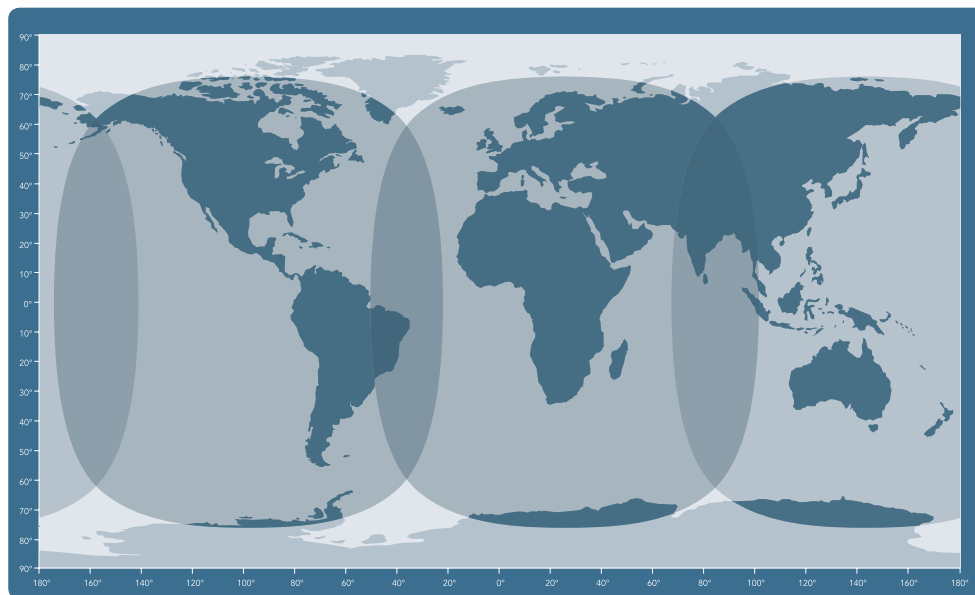
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Global coverage with Inmarsat BGAN

Broadband Global Area Network (BGAN) is Inmarsat's terminology for their latest satellite network with global coverage providing both voice and broadband data. It is the world's leading commercial mobile broadband satellite service.

With three satellites placed in geostationary orbit 36,000 kilometers (22,000 miles) above the Atlantic, Indian and Pacific Oceans respectively, they facilitate a reliable global coverage.

Combined with an EXPLORER terminal this solution offers a superior connectivity to traditional phone networks and the internet – even for professionals working off the beaten track.

BGAN coverage

This map depicts Inmarsat's expectations af coverage, but does not represent a guarantee af service. The availability of service at the edge of coverage areas fluctuates depending on various conditions.
BGAN coverage February 2009.

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