

EXPLORER 710

High-Speed, Ultra-Portable BGAN Terminal

COBHAM

March 2014 Data Sheet

The most important thing we build is trust



The next step change

The all-new EXPLORER 710 provides on-demand streaming rates between 600-700 kbps out of the box. As the world's smallest Class 1 BGAN terminal and the first to take advantage of Inmarsat's new streaming service (High Data Rate), the EXPLORER 710 will deliver high-speed, ultra-portable satellite streaming for broadcasting and other IP-based industry applications.

The EXPLORER 710 includes several advanced new features, including plug and play bonding - simply connect two EXPLORER 710's and double the throughput. A low-end VSAT capability in a portable BGAN form factor.

EXPLORER 710

High-Speed, Ultra-Portable BGAN Terminal

Raising the BGAN bar

EXPLORER 710 is an ultra-portable satellite terminal set to usher in a new era in the world of BGAN by setting new standards for size, speed and features.

Smallest and Lightest

The smallest Class 1 BGAN terminal positioned to support broadcasters in enhancing the quality of mobile outside broadcasting.



Specifications

Dimensions

Total H / W / D:	332 / 279 / 54 mm 13.07 / 10.98 / 2.13 inches
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Total weight:	3.5 kg / 7.7 lbs (incl. battery)
Antenna:	1.9 kg / 4.2 lbs
Transceiver (incl. battery):	1.6 kg / 3.5 lbs

Global Services

Voice:	4 kbps AMBE+2
Premium voice:	3.1 kHz audio, 64 kbps
Standard IP:	Up to 492 kbps
Streaming IP:	32, 64, 128 kbps (256 kbps & BGAN X-Stream)
High Data Rate Streaming:	Min. 600 kbps Min. 300 kbps (Half-channel HDR)
ISDN:	UDI 64 kbps / RDI 56 kbps
SMS:	Supported

Inmarsat frequencies:	1518.0 - 1525.0 MHz (Rx) (EMEA) 1525.0 - 1559.0 MHz (Rx) 1626.5 - 1660.5 MHz (Tx) 1668.0 - 1675.0 MHz (Tx) (EMEA)
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EIRP:	20dBW ±1dB
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User Interface: PMOLED Display, 5 navigation keys, Audio and LCD pointing aids and LED indicator, Compass

Languages: UK, FR, DE, ES, RU and CN

Approvals: Inmarsat Class 1 Type Approval at launch CE & FCC at launch. Other approvals TBC



Fastest ever BGAN

The first and only BGAN terminal to support the new High Data Rate on-demand streaming service from Inmarsat. With speeds higher than 600 kbps the EXPLORER 710 sets a new standard for mobile video newsgathering. HDR will be launched by Inmarsat in November 2013.

Double the speed with plug and play bonding* - simply connect two EXPLORER 710 terminals with an ethernet cable and achieve streaming rates over 1 Mbps.

Interfaces

1 x Analogue RJ-11 phone/fax interfaces

2 x LAN interface	
Connector type:	RJ-45
Power over Ethernet:	PoE Cl. 2 on one RJ-45 interface
Max. cable length:	100m / 328ft (Cat5 UTP)

1 x USB host interface

Version:	2.0 (host)
Charging:	Up to 2A

1 x ISDN interface

Connector type:	RJ-45
Max. units per port:	8, max. total power supplied 1W

1 x Transceiver / Antenna interface

Connector type:	TNC-TNC
Max. cable loss:	1.4 / 20dB @ 1.5GHz

1 x BGAN SIM-Card slots

WLAN Access Point

Standard:	IEEE 802.11 b/g
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Environmental conditions

Temperature

Operational (ambient):	-25°C to +55°C / -13°F to +131°F
Storage (excl. battery):	-40°C to +80°C / -40°F to +176°F

Battery storage temperature

1 month:	-20°C to +60°C / -4°F to +140°F
3 months:	-20°C to +45°C / -4°F to +113°F
1 year:	-20°C to +20°C / -4°F to +68°F

Water and dust: Transceiver: IP52 / Antenna: IP66

Power

DC input range: 10-32VDC

Power consumption

Intelligent Power Management 65W (max.)

AC/DC power supply

Input:	100-240VAC, 47-63Hz, 65W
Output:	19VDC
Connector type:	2.5 / 5.5 mm power jack

Battery:

Lithium ion, rechargeable	
Stand-by time:	36 hours (To be confirmed)
Transmit time, max.:	2h30m @ 144 kbps (25°C / 77°F)
Receive time, max.:	1h30m @ 492 kbps 3h30m @ 492 kbps



Smart and Easy

The new flagship in the EXPLORER series introduces Smart Phones to the world of BGAN, enabling users to connect their own devices for controlling the terminal and for voice calling and connectivity.

Other features includes a USB host interface, hot-swappable batteries, a large easy-to-use LED display and multiple interfaces to support a wide range of applications.

Other features

- Built-in SIP server
- Embedded Webserver
- Advanced Router with admin control
- Wireless Access Point
- Battery hot-swap and Built-in BGAN bonding*
- Remote activation and remote management

Package

EXPLORER 710 Transceiver & Antenna incl. rechargeable lithium ion battery, Antenna cable, 2m ISDN/LAN cable, 115/230VAC power supply, Quick start guide.

Product number

403720B-00500	EXPLORER 710 Terminal
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Accessories

403720B-100	EXPLORER 710 Antenna
403686G	Lithium Ion Battery
403720B-010	Battery Hot Swap Cable
403682P	100-240V AC/DC Power Supply
403650A-009	Car Charger Cable
403670A-00500	IP Handset incl. Cradle
403650A-921	Pole Mount Kit
403720B-942	10m Antenna Cable
403720B-945	30m Antenna Cable
403720B-947	50m Antenna Cable



All specifications are preliminary and are subject to change without notice.

* Bonding is not supported in SW Release 1.02. Free SW upgrade will be available in June 2014.

For further information please contact:

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