EXPLORER 710

High-Speed, Portable BGAN Terminal

COBHAM

inmarsat
GOVERNMENT

February 2016 Product Sheet

The most important thing we build is trust

EXPLORER 710

High-Speed, Portable BGAN Terminal

COBHAM

Raising the BGAN bar

EXPLORER 710 is a 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 full Class 1 BGAN terminal positioned to support broadcasters by enhancing the quality of mobile outside broadcasting.

Fastest ever BGAN

The first and only BGAN terminal to support the full High Data Rate on-demand streaming service from Inmarsat. With speeds averaging 650 kbps, the EXPLORER 710 sets a new standard for mobile video newsgathering.

Double the speed with Plug & Play bonding; simply connect two EXPLORER 710 terminals with an ethernet cable and achieve streaming rates over 1 Mbps.

Smart and Easy

EXPLORER 710 introduces smart devices to the world of BGAN, enabling users to connect their own smart phone for terminal control, voice calls and connectivity. The EXPLORER Connect App with a SIP softphone is available on Android and IOS.

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

Specifications

Dimensions

Total H / W / D:	332 / 279 / 54 mm
	13.07 / 10.98 / 2.13 inches

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:	Not 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)

EIRP: 20dBW ±1dB

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

Interfaces

1 x Analogue RJ-11 phone/fax interfaces

2 x LAN (RJ-45) interface

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

1 x USB host interface

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

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

Relative humidity: 95% non-condensing at +40°C / +104°F

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:	24 hours (to be confirmed)
Transmit time, max.:	2h30m @ 144 kbps
(25°C / 77°F)	1h30m @ 650 kbps
Receive time, max.:	3h30m @ 492 kbps

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

EXPLORER Connect App for IOS and Android:

Includes a SIP Softphone, Terminal Access to control your BGAN and Pointing Assistance.

EXPLORER Cellular Modem for USB:

With the EXPLORER LTE Modem you can connect local cellular networks and use the EXPLORER 510 as wireless router for all your devices.

Package

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

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
403756A-0500	EXPLORER Cellular USB Modem

Product number

403720B-00500	EXPLORER 710 Terminal

inmarsat
GOVERNMENT