

# EXPLORER 710

## High-Speed, Ultra-Portable BGAN Terminal

The EXPLORER 710 provides on-demand streaming rates at 650 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.



### 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.

### 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.

### 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.

## 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:** 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

## 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

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### 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
- Data rate: 10/100 Mbps
- Max. cable length: 100m / 328ft (Cat5 UTP)

**1 x USB host interface**

- Version: 2.0 (host)
- Connector type: A plug
- 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 length: 100m / 328ft, single coax
- Max. cable loss: 1.4 / 20dB @ 1.5GHz

**1 x BGAN SIM-Card slots**

**WLAN Access Point**

- Standard: IEEE 802.11 b/g

### 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): 1h30m @ 492 kbps
- Receive time, max.: 3h30m @ 492 kbp
- Recharge time: To be confirmed

### OTHER FEATURES

- Built-in SIP server
- Embedded webserver
- Advanced Router with admin control
- Wireless Access Point
- Battery hot-swap and Intelligent Power Management
- 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 Termina

### IMPORTANT DATES

**General Availability: October / November 2013**