# EXPLORER 710

High-Speed, Ultra-Portable BGAN Terminal

**COBHAM**

April 2013 Preliminary Data Sheet

The most important thing we build is trust

## The next step change

The new EXPLORER 710 announced in April 2013 provides on-demand streaming rates at 650 kbps out of the box. As the worlds smallest Class 1 BGAN terminal and the first to take advantage of Inmarsats 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 710s and double the throughput. A low-end VSAT capability in a portable BGAN form factor.

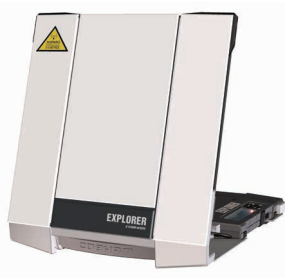EXPLORER 710 will be available in September 2013.

# EXPLORER 710

High-Speed, Ultra-Portable BGAN Terminal

## Raising the BGAN bar

In fall 2013 Cobham SATCOM will launch the all-new EXPLORER 710. 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 on-demand streaming service from Inmarsat. With speeds at 650 kbps the EXPLORER 710 sets a new standard for mobile video newsgathering. The High Data Rate service will be launched by Inmarsat in Fall 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 voice calling and connectivity.

Other features includes a USB host interface, hot-swappable batteries, an 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:** | 3.2 kg / 7 lbs (incl. battery) |
| Antenna: | 1.7 kg (tbc) |
| Transceiver: | 1.5 kg (tbc) |

### 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 - tbc) |
| High Data Rate Streaming: | + 650 kbps |
| | + 325 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 |

## 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 |
| Frequencies: | 2400.0-2485.0 MHz |
| Max. coverage outdoor: | 100m / 328ft |

## 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: | 36h, 25°C / 77°F |
| Transmit time, max.: | 2h30m @ 144 kbps |
| (25°C / 77°F) | 1h30m @ 492 kbps |
| Receive time, max.: | 3h30m @ 492 kbps |
| Recharge time: | To be confirmed |
| Charge temperature: | 0°C to +45°C / 32°F to +113°F |

## Other features

- Support for BGAN bonding
- Built-in SIP server
- Embedded webserver
- Advanced Router with admin control
- Wireless Access Point
- Remote Activation and Remote Management
- Battery hot-swap and Intelligent Power Management
- Solar Panel powering

## Package

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

## Important dates

| | |
|---|---|
| **Announcement:** | **April 2013** |
| **General Availibility:** | **September 2013** |

For More Information Please Contact:

### Ground Control
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inmarsat

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