

# EXPLORER 510

Ultra-Portable Satellite Companion

September 2014 Product Sheet

The most important thing we build is trust

**COBHAM**



**Remote Satellite Systems**  
INTERNATIONAL



# EXPLORER 510

Ultra-Portable Satellite Companion

## A rugged BGAN fit for purpose

The all new EXPLORER 510 is the smallest ever EXPLORER BGAN and the ideal combination of performance and portability.

The durable magnesium casing and a dust and water resistant design makes the EXPLORER 510 the perfect choice when working off the beaten track, but still dependant on a reliable connection.

EXPLORER 510 will be available in December 2014.



## Specifications

### Dimensions

Total H / W / D: 202 / 202 / 51.8 mm  
7.8 / 7.8 / 1.6 inches

**Weight (incl. battery):** 1.4kg / 3.1lbs

### Data capabilities

Standard IP: Up to 464 kbps  
Streaming IP: 32, 64, 128 kbps

### Voice capabilities

Standard voice: 4 kbps  
Premium voice: 3.1 kHz audio, 64 kbps

### Text capabilities

SMS: 160 characters

**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:** 15.1 dBW ±1dB

**User interface:** Two LED (WLAN, Status), 1 Power Button  
USB Host, Cobham web interface

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

**Approvals:** CE, FCC, IC  
Inmarsat Class 2 Type Approval

*Subject to change without further notice*



## Portable performance

Smaller than a standard laptop and weighing less than 1.4 kg, this satellite terminal is easy to carry along when travelling the world.

It supports your need for performance and provides simultaneous high quality voice and broadband access at speeds up to 464 kbps.

Connect the optional EXPLORER LTE Modem to the USB port and turn your device into a true communication SmartHub. Use local cellular net when available and BGAN if no other option.

## Interfaces

### WLAN Access Point

Standard: IEEE 802.11 b/g/n

### 1 x USB host interface

Version: 2.0 (host)  
Charging: Up to 1A

### 1 x BGAN SIM-Card slot

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

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

**Robustness:** 0.5 m / 1.64 ft drop on concrete  
(operational, 95% survival)

**Storage temperature:** -40°C to +80°C  
-40°F to +176°F

**Water and dust:** IP-66 Compliant (TBC)

## Power

**DC input range:** 10.5-32VDC

### Power consumption

Standby / transmit: 0.8W / 14W (typical)  
During charging: 38W (max.)  
Connector type: 2.5mm EIAJ RC-5320-IV

### AC/DC power supply

Input: 100-240VAC, 47-63Hz, 50W  
Output: 19VDC

### Built-in Battery:

Lithium ion (rechargeable)  
Stand-by time (TBC): 36h, 0°C/+32°F to 55°C/+131°F  
Standard call: 3h, 0°C/+32°F to 55°C/+131°F  
Premium voice call: 1h30m, 0°C/+32°F to +55°C/+131°F  
Receive time, max.: 3h30m @ 128kbps (25°C / 77°F)  
Transmit time, max.: 2h15m @ 128kbps (25°C / 77°F)  
Min. number of charges: 300  
Recharge time: Less than 3 hours  
Charge temperature: 0°C / +32°F to +45°C / +113°F

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## Satellite connectivity made simple

EXPLORER 510 is easy to set-up and to operate. The user interface is intuitive and can be accessed from your PC or any kind of smart device.

With the EXPLORER Connect App you can use your smart device to make calls or easily access the internet even in areas with no terrestrial or cellular coverage. The EXPLORER Connect App with a SIP softphone will be available on Android and IOS.

## Other features

### EXPLORER Connect App for IOS and Android\*:

The App includes a SIP Softphone converting your Smart Device into a satellite phone. Terminal Access to control your BGAN and Pointing Assistance.

\* Will be available for download from Apple App Store and Google Play in November 2014.

### EXPLORER LTE 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.

\* To be confirmed - expected to be available in Q1 2015.

## Package

- EXPLORER 510 terminal
- Built-in Rechargeable Lithium Ion Battery
- EXPLORER Softbag
- USB to Ethernet Converter Cable
- 100-240VAC Power Supply
- Multi-Language Quick Start Guide
- Multi-language webserver and embedded manual (ENG, FR, DE, ES, RU, JP and CN)

## Accessories

- Polemount
- EXPLORER Softbag (included in the package)
- 100-240VAC power supply
- Car Charger cable
- EXPLORER 4G USB Modem (expected to be available in Q1 2015)

## Product number

403711A-00500 EXPLORER 510 Terminal



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