

# EXPLORER 510

Ultra-Portable Satellite Companion

**COBHAM**

February 2016 Product Sheet

The most important thing we build is trust



# 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.



## Specifications

### Dimensions

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

<b>Inmarsat frequencies:</b>	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:** 15.1 dBW ±1dB

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

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

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

## 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 Cellular 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
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### 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:	-25°C to +80°C / -13°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 +25°C / -4°F to +77°F

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

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

**Water and dust:** IP-66 Compliant

## Power

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

### Power consumption

Standby / transmit:	2.8W / 19W (typical)
During charging:	20W (max.)
Connector type	2.5mm EIAJ RC-5320-IV

### AC/DC power supply

Input:	100-240VAC, 47-63Hz, 64W
Output:	19VDC

**Built-in Battery:** Lithium ion (rechargeable)

Stand-by time:	24h, 0°C to 55°C / +32°F to +131°F
Standard call:	Minimum 3h (TBC)
Receive time, max.:	4h40m @ 128kbps
Transmit time, max.:	2h25m @ 128kbps
Recharge time:	Less than 3 hours
Charge temperature:	0°C to 45°C / +32°F to +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 is available on Android and IOS.

## Other features

### 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 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 Cellular USB Modem

## Product number

403711A-00500 EXPLORER 510 Terminal

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