

## EXPLORER™ 700

WHEN VERSATILITY AND HIGH-SPEED MATTERS



**EXPLORER 700 provides access to the highest bandwidth available via BGAN, thereby facilitating a platform for a wide range of applications with need of high performance.**

**Disregarding the environmental conditions, it is designed to last and with the detachable antenna, it is ideally suited for temporary camps or semi-fixed installations.**

- **Versatility:** The flagship in the EXPLORER series provides multiple interfaces to support a wide range of applications. Ideal for video streaming applications and large file transfer and can be used by smaller workgroups sharing a temporary or semi permanent office environment
- **High-speed:** The fastest BGAN terminal on the market with download and upload at 492 kbps. Moreover, it supports Inmarsat's BGAN X-Stream, on-demand streaming at +384 kbps for applications demanding outstanding performance
- **Rough environments:** Designed to withstand severe environmental conditions such as humidity, dust, extreme weather and changing temperatures

## Specifications

## Dimensions

Total:	H: 297mm/W: 399mm/D: 51mm H: 11.7inches/W: 15.7inches/D: 2.0inches
Transceiver:	H: 280mm/W: 228mm/D: 40mm H: 11.0inches/W: 8.9inches/ D: 1.6inches
Antenna:	H: 297mm/W: 399mm/ D: 51mm H: 11.7inches/W: 15.7inches/D: 2.0inches

## Weight (incl. battery)

Total:	3.2kg/7.0lbs
Antenna:	1.7kg/3.7lbs
Transceiver:	1.5kg/3.3lbs

## Data capabilities

Standard IP:	
Receive:	492kbps
Transmit:	492kbps
Streaming IP:	32, 64, 128, 256kbps and BGAN X-Stream (384 to 450 kbps)
ISDN:	UDI 64 kbps/RDI 56 kbps

## Voice capabilities

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

## Text capabilities

SMS	160 characters
-----	----------------

## Inmarsat frequencies

Receive:	1525.0 – 1559.0MHz
Transceive:	1626.5 – 1660.5MHz

<b>GPS</b>	1575.42MHz
<b>EIRP</b>	20dBW →1dB

## Environmental Conditions

## 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

<b>Operating temperature</b>	-25°C to +55°C/-13°F to +131°F
------------------------------	--------------------------------

<b>Relative humidity</b>	95% non-condensing at +40°C/+104°F
--------------------------	------------------------------------

<b>Robustness</b>	0.5 m/1.64 ft drop on concrete (operational, 95% survival)
-------------------	---

<b>Storage temperature</b>	-40°C to +80°C/-40°F to +176°F (ex. battery)
----------------------------	--

<b>Water and dust</b>	Transceiver: IP-52/Antenna: IP-66
-----------------------	-----------------------------------

## Interfaces

## 2xAnalogue phone/fax interface

Connector type:	RJ-11
Impedance:	600Ω

## 1xBluetooth interface (vers. 1.2)

Frequencies:	2400.0 – 2483.5MHz
Max. coverage, outdoor:	100m/328ft
Max. devices connected:	7 handsets, 1 PC, etc.
Profiles supported:	Cordless handset, serial port, dial-up networking
Standard:	Power Class 1

## 2xLAN interface

Connector type:	RJ-45, auto cross over MDI/MDI-X
Data rate:	10/100Mbps
Max. cable length:	100m/328ft (Cat5 UTP)
Standard:	ISO/IEC 8877:1992. and IEEE 802.3 (1998 edition)

## 1xUSB interface

Version:	1.1, slave
Connector type:	B plug
Max. cable length:	5m/16.4ft
Max. data rate:	12Mbps

## 1xI/O interface

Connector type:	Socket block B2L 6,5/6
Function:	2 input/output
Input:	TTL-level, voltage 0-32V
Output:	Sinking current max. 50mA, VL (max.)<4.5V

## 2xISDN interface

Connector type:	RJ-45
Max. units per port:	8, max. total power supplied 1W

## 1xTransceiver/Antenna interface

Connector type:	TNC-QN
Max. cable length:	100m/328ft, single coax cable
Max. cable loss:	1.4dB/20dB @ 1.5GHz

## WLAN Access Point

Standard:	IEEE 802.11 a/b/g
Antenna:	Dual space diversity antennas integrated in transceiver unit
Frequencies:	2400.0-2485.0MHz and 5150.0-5850.0MHz
Max. coverage outdoor:	100m/328ft
Max. data rate:	54Mbps

## Power

<b>DC input range</b>	10-32VDC
-----------------------	----------

## Power consumption

Standby mode:	1.2W (typical)
Transmit mode:	18W (typical)
During charging:	60W (max.)

<b>Connector type</b>	2.5/5.5mm power jack
-----------------------	----------------------

## AC/DC power supply

Input:	100-240VAC, 47-63Hz, 65W
Output:	19VDC

## Battery

Stand-by time:	Lithium ion, rechargeable 36h, 25°C/77°F
Transceive time, max.:	2h30m @ 144kbps (158MB), 25°C/77°F 1h30m @ 492kbps (324MB), 25°C/77°F 3h30m @ 492kbps (756MB), 25°C/77°F
Receive time, max.:	300
Min. number of charges:	2h30m
Recharge time:	0°C to +45°C/32°F to +113°F

## Built-in Bluetooth

<b>handset charger</b>	6.2V, 350mA
------------------------	-------------

## General

<b>LCD display</b>	Graphical high resolution; Back lit
<b>User Interface</b>	Four navigation keys and power button Audio and LCD pointing aids LED indicators Thrane & Thrane web interface BGAN LaunchPad
<b>Languages</b>	UK, FR, DE, ES, RU and CN (CN end 2009)
<b>Approvals</b>	CE; FCC; GMPCS Inmarsat Class 1 Type Approval

## Features

Phonebook; Fax; Message indicator; Restricted dialing; Traffic logging; Admin control (password protected); Webserver; Router or direct mode; Network Management; DHCP; SIP server (end 2009); Up to 11 x PDP context; Point-to-point Protocol over Ethernet (PPPoE); Solar Panel powering

## Package

EXPLORER 700 transceiver and antenna incl. lithium ion battery  
Antenna cable, 0.4m; Antenna extension cable, 10m  
ISDN/LAN cable, 2m  
USB cable, 1.8m  
115/230VAC power supply  
Getting-started kit

## Accessories

Bluetooth handset and charger; Car charger cable; Softbag; Spare lithium ion battery  
Antenna mounting kit  
Antenna cables (coax): <10m/3mm; <30m/5mm; <60m/10mm;  
<100m/10mm (hard)