EXPLORER® 700
Technical Specifications

Meets or exceeds Inmarsat specifications for operation on the Inmarsat Broadband Global Area Network (BGAN).

Environmental Conditions

Operating temperature: -25°C to +55°C
-13°F to +131°F

Storage temperature: -40°C to +80°C (excl. battery)
-40°F to +176°F (excl. battery)

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

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

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

Water & dust:
Transceiver: IP-52
Antenna: IP-66

Power

DC input range: 10-32VDC

Power consumption:*  
- Standby mode: 1.2W (typical)  
- Transmit mode: 18W (typical)  
- During charging: 60W (max.)

AC/DC Adapter:
- Input: 100-240VAC, 47-63Hz, 65W
- Output: 19VDC

Built-in Bluetooth handset charger: 6.2V, 350mA

Solar Panel

Type: 12V unregulated solar panels
Max. open circuit voltage: 32V
Max. PP: 28V

Transceiver/Antenna Interface

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

* Performance depends on a wide range of factors and actual usage.
WLAN Access Point

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

LAN Interface, 2-port

- Connector type: RJ-45, auto cross over MDI/MDI-X
- Max. cable length: 100m/328ft (Cat5 UTP)
- Data rate: 10/100Mbps

Bluetooth Interface

- Version: 1.2
- Standard: Power Class 1
- Antenna: Integrated in transceiver unit
- Max. coverage, outdoor*: 100m/328ft
- Max. devices connected: 7 handsets, 1 PC, etc.
- Profiles supported: Cordless handset, serial port, dial-up networking
- Frequencies: 2400.0 – 2483.5MHz

ISDN Interface, 2-port

- Connector type: RJ-45
- Max. units per port: 8, max. total power supplied 1W
- Datarate:
  - Voice: 4kbps
  - Data: 64kbps
  - Audio: 3.1kHz

Analogue Phone/Fax Interface, 2-port

- Connector type: RJ-11
- Impedance: 600Ω

USB Interface

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

I/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, $V_o (max.)<4.5V$

Certifications

- CE
- FCC
- GMPCS

Package

- EXPLOER™ 700 transceiver unit incl. lithium ion battery
- EXPLOER™ 700 antenna
- Antenna cable, 0.4m
- Antenna extension cable, 10m
- ISDN/LAN cable, 2m
- USB cable, 1.8m
- 115/230VAC power adapter
- Getting started kit

Accessories

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

* Performance depends on a wide range of factors and actual usage.