

EXPLORER™ 700

Technical Specifications

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

General

Type:	EXPLORER™ 700
IP data rate, Rx/Tx:*	492kbps/492kbps (simultaneously)
Streaming IP: (guaranteed bandwidth)	32, 64, 128, 256kbps
Weight:	
Total (incl. battery):	3.2kg/7.0lbs
Antenna:	1.7kg/3.7lbs
Transceiver (incl. battery):	1.5kg/3.3lbs

Size:

Total:	H: 29.7cm/W: 39.9cm/D: 5.1cm H: 11.7inches/W: 15.7inches/D: 2.0inches
Antenna:	H: 29.7cm/W: 39.9cm/ D: 5.1cm H: 11.7inches/W: 15.7inches/D: 2.0inches
Transceiver:	H: 28.0cm/W: 22.8cm/D: 4.0cm H: 11.0inches/W: 8.9inches/ D: 1.6inches

LCD display:	Graphical high resolution Back lit 2 x 16 characters in text mode
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MMI:	Four navigation keys and power button Audio and LCD pointing aids LED indicators BGAN LaunchPad Thrane & Thrane web interface
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Battery:	Lithium ion, rechargeable
Stand-by time:	36h, 25°C/77°F
Tx time, max.:	2h30m @ 144kbps (158MB), 25°C/77°F 1h30m @ 492kbps (324MB), 25°C/77°F
Rx time, max.:	3h30m @ 492kbps (756MB), 25°C/77°F
Min. charge cycles:	300
Recharge time:	2h30m
Charge temperature:	0°C to +45°C/32°F to +113°F

Frequencies:

Inmarsat:	
Rx:	1525.0 – 1559.0MHz
Tx:	1626.5 – 1660.5MHz
GPS:	1575.42MHz
EIRP:	20dBW ±1dB

Environmental Conditions

Operating temperature:	-25°C to +55°C -13°F to +131°F
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Storage temperature:	-40°C to +80°C (excl. battery) -40°F to +176°F (excl. battery)
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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
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Robustness:	0.5 m/1.64 ft drop on concrete (operational, 95% survival)
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Water & dust:	
Transceiver:	IP-52
Antenna:	IP-66

Power

DC input range:	10-32VDC
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Power consumption:*	
Standby mode:	1.2W (typical)
Transmit mode:	18W (typical)
During charging:	60W (max.)

Connector type:	2.5/5.5mm power jack
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AC/DC Adapter:	
Input:	100-240VAC, 47-63Hz, 65W
Output:	19VDC

Built-in Bluetooth handset charger:	6.2V, 350mA
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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
Standard:	ISO/IEC 8877:1992. and IEEE 802.3 1998 edition
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 _L (max.)<4.5V

Certifications

CE
FCC
GMPCS

Package

EXPLORER™ 700 transceiver unit incl. lithium ion battery
EXPLORER™ 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.

