

EXPLORER® 110

Technical Specifications

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

General

Type:	EXPLORER 110
Max. IP data rate*	
Rx:	384kbps
Tx:	240kbps
Streaming IP (guaranteed bandwidth):	32, 64kbps
Weight (incl. battery):	995g/2.2lbs
Size:	H: 20.0cm/7.9inches W: 15.0cm/5.9inches D: 4.5cm/1.8inches
User interface:	Audio and LED indicators Launch pad WEB configuration Dedicated handset
Battery:	Lithium ion, 2400mAh (rechargeable)
Stand-by time:	36h, 0°C to +55°C/+32°F to +131°F
Standard call ¹⁾ :	3h, 0°C to +55°C/+32°F to +131°F
Rx time, max.:	3h30m @ 64kbps, 0°C to +55°C/+32°F to +131°F
Tx time, max.:	1h20 @ 96kbps, 0°C to +55°C/+32°F to +131°F
Min. charge cycles:	300
Recharge time:	<3h
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:	10dBW ±1dB

Environmental Conditions

Operating temperature:	-20°C to +55°C -4°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 ambient
3 months:	-20°C to +45°C / -4°F to +113°F ambient
1 year:	-20°C to +20°C / -4°F to +68°F ambient
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:	Antenna IP 44 when antenna split cable is used (dust and spray proof in all directions) Interface unit IP 42

1) With EXPLORER ISDN handset + PC. Bluetooth turned off.

Power

DC input range:	10.8-15.6VDC
Power consumption*	
Standby mode:	0.5W (typical)
Transmit mode:	<20W
During charging:	30W (max.)
Connector type:	Hollow-plug Ø2.1x5.5x10.0mm
AC/DC power supply	
Input:	100-240VAC, 47-63Hz, 50W
Output:	12VDC

Interface Unit/Antenna Unit

Connector type:	RS232-RS232
Max. cable length:	30m/98ft

LAN Interface

Connector type:	RJ-45, 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
Antenna:	Integrated in interface unit
Max. coverage*	
Outdoor:	30m/98ft
Max. devices connected:	1 handset, 1 PC/PDA, 1 BT headset
Profiles supported:	Cordless handset, serial port, service discovery application, dial-up networking, headset
Frequencies:	2400.0 – 2483.5MHz

USB Interface

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

ISDN Phone Interface

Connector type:	RJ-45
ISDN voltage protection, if PC/Ethernet is connected	
Max. cable length:	100m/328ft (supports only one ISDN handset)

Certifications

CE 0434
FCC ID TSF107730
IC 6200A-107730
GMPCS

Package

- EXPLORER 110 interface unit incl. lithium ion battery
- EXPLORER 110 antenna with built-in GPS receiver
- LAN cable, 2m/7ft
- AC/DC adapter with EN 50075 AC plug
- Getting Started kit

Accessories

Dedicated ISDN handset:	Monitoring, configuration
	Phone book dialing, hands-free
	Read/write text messages
	Back lit
	IP 44

- Bluetooth handset
- Desktop charger cradle for Bluetooth handset with power supply
- Car charger cable
- Antenna split cables:
 - 3m/10ft
 - 10m/33ft
 - 20m/66ft
 - 30m/98ft

- Brackets for antenna
- Pole mount kit for EXPLORER 110
- Radome, extreme outdoor IP66
- 100-240VAC power supply
- DC/DC charger 10-32VDC
- Lithium ion battery (rechargeable)
- Soft bag

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



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