

EXPLORER™ 500

Technical Specifications

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

General

Type:	EXPLORER™ 500
Max IP data rate*	
Rx:	464kbps
Tx:	448kbps
Streaming IP (guaranteed bandwidth):	32, 64, 128kbps
Weight (incl. battery):	1.4kg/3.1lbs
Size:	H: 21.8cm/8.6inches W: 21.7cm/8.5inches D: 5.2cm/2.1inches
LCD display:	Graphical high resolution Back lit 2 x 16 characters in text mode
User interface:	Four navigation keys and power button Audio and LCD pointing aids LED indicators Launch pad and web configuration
Battery:	Lithium ion (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
Premium voice call ¹⁾ :	1h30m, 0°C to +55°C/+32°F to +131°F
Rx time, max.:	3h30m @ 128kbps, 0°C to +55°C/+32°F to +131°F
Tx time, max.:	2h15m @ 128kbps, 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:	15.1dBW ±1dB

1) With either Bluetooth or phone/fax interface

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 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:	IP-54 (dust and spray proof in all directions)

Power

DC input range:	10-16VDC
Power consumption*	
Standby mode:	0.8W (typical)
Transmit mode:	14W (typical)
During charging:	38W (max.)
Connector type:	2.5mm EIAJ RC-5320-IV
AC/DC power supply	
Input:	100-240VAC, 47-63Hz, 50W
Output:	15VDC
Built-in Bluetooth handset charger:	6.2VDC, 350mA

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
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, service discovery application, dial-up networking, LAN access
Frequencies:	2400.0 – 2483.5MHz

Analogue Phone/Fax Interface

Connector type: RJ-11

USB Interface

Version: 1.1 (slave)

Connector type: Mini B plug

Max. data rate: 12Mbps

Max. cable length: 5m/16.4ft

Certifications

CE

FCC

GMPCS

Package

EXPLORER™ 500 incl. lithium ion battery (rechargeable)

LAN cable

USB cable

100-240VAC power supply

Getting Started kit

Accessories

Bluetooth handset with charger cable

Desktop charger cradle for Bluetooth handset with power supply

External antenna

Car charger cable

Soft bag

Pole mount kit for EXPLORER™ 500

Pole mount kit for EXPLORER™ external antenna

100-240VAC power supply

Lithium ion battery (rechargeable)

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