

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

