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. data rate*	
Downlink:	464kbps (shared)
Uplink:	448kbps (shared)
Weight (incl. battery):	1.3kg/2.9lbs
Size:	H: 21.8cm/8.5inches
	W: 21.7cm/8.5inches
	D: 5.2cm/2.1inches
LCD display:	Graphical high resolution
	Back lit
	2 x 16 characters in text mode
MMI:	Four navigation keys
	Power button
	LED
Battery:	Lithium ion (rechargeable)
Stand-by time:	36h
Transmit time:	1h30m @ 144kbps
Min. charge cycles:	300
Charge temperature:	0°C to +45°C / 32°F to +113°F
Frequencies	
Inmarsat	
Transmit:	1626.5 – 1660.5MHz
Receive:	1525.0 – 1559.0MHz
GPS:	1575.42MHz
EIRP:	15.1dBW ±1dB

Environmental Conditions

Operating temperature:	-25°C to +55°C (powered by external DC)
	-13°F to +131°F (powered by external DC)
	0°C to +55°C (powered by battery)
	+32°F to +131°F (powered by battery)
Terminal storage temperature:	-40°C to +80°C (excl. battery)
	-40°F to +176°F (excl. battery)
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)
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

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 Adapter	
Input:	100-240VAC, 47-63Hz
Output:	15VDC
Built-in Bluetooth	
handset charger:	6.2V, 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) 10/100Mbps

USB Interface

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

Bluetooth Interface

Version:	1.2
Standard:	Power Class 1
Max. coverage*	
Outdoor:	100m/328ft
Max. devices connected:	7
Profiles supported:	Cordless telephony, serial port, service discovery application, dial-up networking, LAN access
Frequencies:	2400.0 – 2483.5MHz

Phone/Fax Interface

Connector type:	RJ-11
Impedance:	600Ω
Max. units connected:	One unit

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

2.2 072052 07.05 OgilvyOne

bgan *via* inmarsat