

## 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<br>W: 15.0cm/5.9inches<br>D: 4.5cm/1.8inches                 |
| User interface:                      | Audio and LED indicators<br>Launch pad<br>WEB configuration<br>Dedicated handset |
| Battery:                             | Lithium ion, 2400mAh (rechargeable)  |
| Stand-by time:                       | 36h, 0°C to +55°C/+32°F to +131°F  |
| Standard call <sup>1)</sup> :        | 3h, 0°C to +55°C/+32°F to +131°F   |
| Rx time, max.:                       | 3h30m @ 64kbps,<br>0°C to +55°C/+32°F to +131°F                                  |
| Tx time, max.:                       | 1h20 @ 96kbps,<br>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<br>-4°F to +131°F  |
| Storage temperature:        | -40°C to +80°C (excl. battery)<br>-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)<br>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<br>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.

