

## BGAN Explorer 727

The flagship BGAN terminal for vehicular use.

Explorer 727 is the perfect choice for reliable, fast data and quality voice communications, even at high speed.



### Overview

Because EXPLORER 727 automatically tracks satellite positions it makes high-speed connectivity and communication possible - even at speeds in excess of 200 km/h. Run a multitude of office, security and commercial applications thanks to full IP connectivity and be 'connected to the world', even when you're in your car. Or truck. Or armoured vehicle.

EXPLORER 727 becomes an Inmarsat Class 1 terminal when at a standstill making it the only vehicular BGAN terminal that can be used with BGAN X-Stream, Inmarsat's premium IP streaming service.

BGAN X-Stream provides +384 kbps streaming when EXPLORER 727 is stationary so HD video and audio are a breeze. Even on-the-move, you can still stream up to 256 kbps with the regular streaming service. Attach the antenna to the roof of your vehicle or place it up to 50 m away when you set up camp. Add a PoE wireless access point and EXPLORER 727 can even be used as a WLAN hotspot.

Enable your team to connect instantly. Media, government, utility and humanitarian users can improve operational efficiency through flexible deployment options and multiple equipment interfaces.

EXPLORER 727 can withstand severe environmental conditions such as humidity, dust, extreme weather and changing temperatures, so stable, reliable connectivity is inherent, even at speed.

### Details

Manufacturer:	• Cobham
Network:	• Inmarsat
Device Type:	• Modem
Markets:	• SCADA / Telemetry • Military • Utility • Renewable

# Technical Specs

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## General Specifications

### Dimensions

- Transceiver H / W / D: 42.5 / 231 / 273 mm - 1.67 / 9.72 / 10.63 inches
- Antenna H / W: 152 / Ø477 mm - 6.3 / Ø18.76 inches

### Weight

- Antenna: 6 kg / 13.2 lbs
- Transceiver: 2.5 kg / 5.5 lbs

### Global Services

- Voice: 4 kbps AMBE+2
- Premium voice: 3.1 kHz audio, 64 kbps (@ elevation >20° on-the-move / >5° on-the-pause)
- Standard IP: Up to 492 kbps
- Streaming IP: 32, 64, 128, 256 kbps (256 kbps @ elevation >45° on-the-move / >5° on-the-pause)
- BGAN X-Stream: Minimum 384 kbps on-the-pause
- ISDN: UDI 64 kbps / RDI 56 kbps (@ elevation >20° on-the-move / >5° on-the-pause)
- SMS: 160 characters

### Elevation

- Guaranteed service: Works above 5° elevation

### Inmarsat BGAN frequencies

- Receive (Rx): 1525.0 – 1559.0 MHz
- Transmit (Tx): 1626.5 – 1660.5 MHz

### Recommended antenna cable

- Cable loss max / min
- 20 dB @ 1.62 GHz & 1 Ω DC loop resistance
- 3 dB @ 36 MHz – 4 dB @ 54 MHz

## Environmental:

### Temperature

- Operational (ambient): -25 to +55°C / -13 to 131°F
- Survival: -40 to +80°C / -40 to 176°F
- Storage: -40 to +85°C / -40 to 185°F

### Relative humidity:

- 95% non-condensing at +40°C / +104°F

### Water and dust (IP-rating)

- Transceiver: IP31
  - Antenna: IP56
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## Interfaces:

- 4 x 10/100 Mbit Ethernet RJ-45 LAN interfaces with Power over Ethernet (PoE)
- 2 x Analogue RJ-11 phone/fax interfaces
- 1 x RJ-45 ISDN interface
- 5 x I/O connector with General Purpose I/Os
- 1 x SIM-Card slot

### Connectors

- Transceiver, TNC-Socket, Female
  - Antenna, TNC-Socket, Female
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## Power:

- DC input range: 10.5 to 32V
- Power (max) @ 10.5-32V.: 120W (incl. antenna & PoE output)