

# EXPLORER 727

Comms-on-the-move Inmarsat BGAN terminal

**COBHAM**

2013 Data Sheet

The most important thing we build is trust



# EXPLORER 727

Comms-on-the-move BGAN terminal

## Comprehensive communication hub for vehicles

EXPLORER 727 is a high-speed, vehicular broadband system. It consists of three fully integrated units – a transceiver, an IP handset and a roof mountable antenna.

Live media broadcast, defense or humanitarian operations requires communication equipment that you can always rely on. With EXPLORER 727 you get the most comprehensive and best in class Mobile Communication Hub.

## High-speed broadband on-the-Move

The antenna automatically tracks satellite positions enabling high-speed connectivity while on-the-move. Simultaneous 432 kbps data and phone calls – even at speeds in excess of 200 km/h.

## Mobile Communication

Place the antenna on the roof of your vehicle to turn it into a complete mobile communication hub. Provides access to the internet and phone networks instantly.

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## Live streaming - or store-and-forward

Facilitates both live streaming and store-and-forward and enables direct transmissions from the hot spots of the world. Utilize the highest streaming rates available on BGAN with BGAN X-Stream when the terminal is standing still (on-the-pause).



## 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: (@ elevation > 20° on-the-move / > 5° on-the-pause)	3.1 kHz audio, 64 kbps
Standard IP:	Up to 492 kbps
Streaming IP: (256 kbps @ elevation > 45° on-the-move / > 5° on-the-pause)	32, 64, 128, 256 kbps
BGAN X-Stream:	Min. 384 kbps on-the-pause
ISDN: (@ elevation > 20° on-the-move / > 5° on-the-pause)	UDI 64 kbps / RDI 56 kbps
SMS:	160 characters

**Guaranteed service:** Works above 5° elevation

**Inmarsat frequencies:** 1525.0 – 1559.0 MHz (Rx)  
1626.5 – 1660.5 MHz (Tx)

### 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
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## General

**User Interface:** Power On/Off button. DC power input connector with Remote on/off and locking mechanism. Status LEDs for Power, Transceiver, Antenna, and Messages. Thrane & Thrane web interface. Factory default reset

**Languages:** UK, FR, DE, ES, RU and CN

**Approvals:** CE, GMPCS, FCC  
Inmarsat Land Class 10 Type Approval (Vehicular)

## Interfaces

### 2 x Analogue RJ-11 phone/fax interfaces

### 4 x LAN interfaces

Connector type:	RJ-45 Power over Ethernet (PoE)
Data rate:	10/100 Mbps
Max. cable length:	100m / 328ft (Cat5 UTP)
Standard:	ISO/IEC 8877:1992 and IEEE 802.3 (1998 edition)

### 1 x ISDN interface

Connector type: RJ-45

**I/O connector:** 5 pin general purpose I/O

**Antenna Connector:** Transceiver, TNC-Socket, Female  
Antenna, TNC-Socket, Female

### BGAN SIM-Card slot

## Environmental conditions

### Temperature

Operational:	-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

## Power

**DC Input range:** 10.5-32VDC

**Power (max)@10.5-32V:** 150W  
(Incl. antenna & PoE output)

## Other features

### Telephone Functionality

Phone book, message indication, restricted dialing and traffic logging.

### Set-up and Router Functionality

Webserver, Built-in NAT Router, Admin control (password protected), DHCP, Network Management, Remote Management, SIP Server, Point-to-Point Protocol over Ethernet (PPPoE), Power over Ethernet (PoE)

## Package

EXPLORER 727 transceiver  
EXPLORER 727 tracking antenna  
Antenna cable, coax w/ TNC plug (2.7m & 8m / 8.8ft & 26ft)  
Standard ethernet cable (5m / 16.4ft)  
24V DC input cable (6m / 19.7ft) with 5 additional wires for I/O connectors  
Thrane IP handset w/ cradle & coiled cable  
Antenna mounting kit (fixed / rail)  
Getting started kit: Quick start guide, CD with manuals

## Product number

403722A-20000	EXPLORER 727 System, white antenna
403722A-00700	EXPLORER 727 System, desert sand antenna
403722A-20010	EXPLORER 727 System, 19" rack version, white antenna
403722A-00710	EXPLORER 727 System, 19" rack version, desert sand antenna

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