EXPLORER 727

Comms-on-the-move Inmarsat BGAN terminal

Product Sheet

COBHAM SATCOM
Connecting the future



EXPLORER 727

Comms-on-the-move BGAN terminal

Comprehensive communcation hub

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.

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.

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.

Live streaming - or store & 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 class 10 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: 1518.0 - 1525.0 MHz (Rx)*
1525.0 – 1559.0 MHz (Rx)
1626.5 – 1660.5 MHz (Tx)
1668.0 - 1675.0 MHz (Tx)*
(* EMEA Only)

Recommended antenna cable

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

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. 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:	IP30
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-00502	EXPLORER 727 System, desert sand antenna

For further information please contact:
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