

# EXPLORER 325

Comms-on-the-move Inmarsat BGAN terminal

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December 2017 Product Sheet

The most important thing we build is trust

**COBHAM**



# EXPLORER 325

Comms-on-the-move BGAN terminal

## Compact voice and broadband solution

EXPLORER 325 is a compact BGAN system for on-the-move communication. The system consists of three fully integrated units – a transceiver, an IP handset and a roof mountable antenna with magnetic mounts.

Whether you're engaged in humanitarian operations, cargo transportation, broadcasts or telemedicine, you need easy deployable communication equipment you can always rely on. Regardless of time or place.



## Specifications

### Dimensions

|                        |  |
|------------------------|--|
| Transceiver H / W / D: | 41 / 231 / 278 mm<br>1.6 / 9.1 / 10.9 inches |
| Antenna H / W:         | 128 / Ø349 mm<br>4.72 / Ø13.8 inches         |

### Weight

|              |                                |
|--------------|--------------------------------|
| Antenna:     | 3.6kg / 7.9lbs (excl. magnets) |
| Transceiver: | 2.2kg / 4.9lbs                 |

### Global Services

|                |                          |
|----------------|--------------------------|
| Voice:         | 4 kbps AMBE+2            |
| Premium voice: | 64 kbps (@elevation>45°) |
| Standard IP:   | Up to 464 kbps           |
| Streaming IP:  | 32, 64, 128 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 &<br>1 Ω DC loop resistance<br>3 dB @ 36 MHz / 4 dB @ 54 MHz |
|-----------------------|---|

## Instant communication

Simply place the antenna on the roof, connect the antenna and your PC to the EXPLORER terminal, switch on the Thrane & Thrane IP Handset and the vehicle is turned into a mobile communication hub.

## Compact

The auto tracking antenna is compact and lightweight, ideal for vehicles on-the-move. It is designed for robust and durable use.

## General

|                        |   |
|------------------------|---|
| <b>User Interface:</b> | Power On/Off button. Status LED. Thrane & Thrane web interface. Factory default reset |
| <b>Languages:</b>      | UK, FR, DE, ES, RU and CN   |
| <b>Approvals:</b>      | CE, GMPCS, FCC<br>Inmarsat Land Class 11 Type Approval (Vehicular)                    |

## Interfaces

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

### 2 x LAN interface

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

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

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

**DC power connector:** DC power input connector with Remote on/off and locking mechanism.

### 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 |

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## No roaming

BGAN offers mobile broadband connectivity wherever you go at fixed pricing with no roaming fees. With the EXPLORER 325 you know your cost of communication regardless of the number of borders you cross.

## 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 325 transceiver  
EXPLORER 325 tracking antenna with magnetic mount  
Antenna cable, coax w/ TNC plug (2.7m / 8.8ft)  
Ethernet Cable (2m / 6ft)  
Thrane IP handset w/ cradle & coiled cable  
Getting started kit: Quick start guide, CD with manuals  
12/24V DC input cable (3m / 9.8ft)

## Product number

|               |                                |
|---------------|--------------------------------|
| 403721A-00502 | EXPLORER 325 System            |
| 403721A-00520 | EXPLORER 325 System (GPS only) |

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