

## EXPLORER™ 325

COMPACT BGAN SYSTEM FOR ON-THE-MOVE COMMUNICATION



**EXPLORER 325 has the smallest on-the-move BGAN antenna in the market. The system consists of three fully integrated units – a transceiver, an IP handset and a roof mountable antenna.**

**The antenna is compact and lightweight, ideal for vehicles on-the-move. It is designed for robust and durable use – and easy to carry along when traveling the world.**




**The antenna has built-in magnetic roof mounts. Simply place the antenna on the roof of the vehicle, connect it to the transceiver and the vehicle is turned into a mobile communication hub with global coverage.**

#### **Key features:**

- Broadband on-the-move
- Auto tracking antenna
- Seamless global coverage
- Smallest on-the-move BGAN antenna

#### **Key specifications:**

- Antenna size: 35 cm wide and 12 cm high
- Works above 5° elevation
- Inmarsat Class 11 specifications
- Up to 384 kbps IP data
- 32, 64, 128 kbps streaming IP data
- Built-in magnetic roof mounts
- Thrane & Thrane VoIP Handset
- 2 Ethernet ports for Internet access
- 1 2-wire port for traditional PSTN

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## EXPLORER™



## Specifications

### Dimensions

Transceiver:	
H/W/D [mm]	41 / 231 / 278
H/W/D [inches]	1.61 / 9.09 / 10.94
Antenna:	
H/Diameter [mm]	120 / 350
H/Diameter [inches]	4.72 / 13.8

### Weight

Antenna	4.5 kg / 9.9 lbs (TBD)
Transceiver	2.4 kg / 5.5 lbs

### Global Services

Voice	4 kbps AMBE+2
Standard IP	Up to 384 kbps
Streaming IP	32, 64, 128 kbps
SMS	160 characters

### Elevation

Guaranteed service	Works above 5° elevation
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### Frequency Band

Rx	1525.0 – 1559.0 MHz
Tx	1626.5 – 1660.5 MHz
Ch. Spacing	1.25 kHz – Rx.

## Environmental Conditions

### Temperature

Ambient Temperature (operational)	-25 to +55°C
Survival Temperature (power on)	-40 to +80°C
Storage Temperature	-40 to +85°C
Operating humidity (at 40°C)	95% non-condensing

### Water and dust (IP-rating)

Terminal	IP31
Antenna	IP56

## Power

DC input range:	10.5 to 32V
Maximum consumption @ 10-32V:	120W / 12V
(including antenna)	150W / 24V

## Interfaces

### Transceiver interfaces

- Power On/Off button
- DC power input connector with Remote on/off and locking mechanism
- 2 10/100Mbit Ethernet LAN user ports with Power over Ethernet (PoE)
- 1 Independent RJ-11 port (2-Wire connector)
- 5 I/O connector with General Purpose I/Os
- 1 SIM-Card slot
- Power LED
- Factory default reset

### Antenna Connectors

- Transceiver, TNC-Socket, Female
- Antenna, TNC-Socket, Female

## General

### Approvals

- To be Inmarsat Land Vehicular PCT Approved. Inmarsat Class 11 compliant
- To be CE, FCC and GMPCS approved

## Features

### Telephone Functionality

- Phone Book
- Message indication
- Restricted dialing
- Traffic logging

### Set-up and Router Functionality

- Webserver
- Built-in NAT Router
- Network Management
- SIP Server
- 11 PDP contexts
- PPPoE

## Package

- EXPLORER™ 325 Transceiver
- EXPLORER™ 325 Tracking Antenna
- Antenna cable (2.7m COAX w/ TNC plug) & Ethernet Cable (2m)
- Thrane IP Handset with cradle (Item 403670A-00500)

## Where to Buy:

### Mackay Communications, Inc.

3691 Trust Drive  
 Raleigh, NC 27616 USA  
 Tel: 1-919-850-3100  
 US Toll: 1-877-4-MACKAY  
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For Government buyers or contractors,  
 contact Mackay Government at:  
 government@mackaycomm.com  
 or 904-880-4633



[www.mackaysatellite.com](http://www.mackaysatellite.com)

**NB1:** Product meets or exceeds Inmarsat specifications for operation on the Inmarsat Broadband Global Area Network (BGAN).

**NB2:** Product performance depends on a wide range of factors and actual usage.

Preliminary datasheet - subject to change

