

EXPLORER™ 325

COMPACT VOICE AND BROADBAND SOLUTION FOR VEHICLES



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.

- **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 light-weight, ideal for vehicles on-the-move. It is designed for robust and durable use.
- **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.



Specifications

Dimensions

Transceiver:	
H/W/D [mm]	41 / 231 / 278
H/W/D [inches]	1.6 / 9.1 / 10.9
Antenna: [ex. magnet]	
H/W [mm]	128 / Ø349
H/W [inches]	4.72 / Ø13.8

Weight

Antenna [ex. magnet]	3.6 kg / 7.9 lbs
Transceiver	2.2 kg / 4.9 lbs

Global Services

Voice	4 kbps AMBE+2
Premium voice	3.1 kHz audio, 64 kbps (@elevation>45°)
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.

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 Conditions

Temperature

Ambient Temperature (operational)	-25 to +55°C / -13 to 131°F
Survival Temperature (power on)	-40 to +80°C / -40 to 185°F
Storage Temperature	-40 to +85°C / -40 to 185°F

Operating humidity (at 40°C)

	95% non-condensing
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Water and dust (IP-rating)

Terminal	IP31
Antenna	IP56

Interfaces

2x10/100Mbit Ethernet LAN user ports with Power over Ethernet (PoE)
 1xRJ-11 port (2-Wire connector)
 5xI/O connector with General Purpose I/Os
 Output: Ringer, Warning, Mute
 Input: Radio Silence, Ignition Control
 1xSIM-Card slot

Connectors

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

Power

DC input range:	10.5 to 32V
Maximum consumption @ 10.5-32V:	73W / 12V
(including antenna)	70W / 24V

General

User interface

Power On/Off button
 DC power input connector with Remote on/off and locking mechanism
 Thrane & Thrane web interface
 Power LED
 Factory default reset

Languages (web user interface)

UK, FR, DE, ES, RU and CN

Approvals

CE, GMPCS, FCC
 Inmarsat Land Vehicular Type Approval (Class 11)

Features

Telephone Functionality

Phone Book
 Message indication
 Restricted dialing
 Traffic logging

Set-up and Router Functionality

Webserver
 Built-in NAT Router
 Admin control (password protected)
 DHCP
 Network 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
 Documentation package (Getting started kit & CD)