

EXPLORER 325

Comms-on-the-move Inmarsat BGAN terminal

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 1.6 / 9.1 / 10.9 inches
Antenna H / W:	128 / Ø349 mm 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 & 1 Ω DC loop resistance 3 dB @ 36 MHz / 4 dB @ 54 MHz
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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

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

Interfaces

1 x Analogue RJ-11 phone/fax interfaces

2 x LAN interface

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)

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)

For further information please contact:

Cobham SATCOM
Lundtoftegaardsvej 93 D
DK-2800 Kgs. Lyngby
Denmark
Tel: +45 3955 8800
Fax: +45 3955 8888



Subject to change without notice.

www.cobham.com/satcom



EXPLORER™ 325

SMALLEST VEHICULAR BGAN SYSTEM FOR ON-THE-MOVE COMMUNICATION

EXPLORER™ 325

- EXPLORER™ 325 is the BGAN based replacement of the Compact Car Phone (Mini-M)
- Radome will appear more Compact Car Phone like than EXPLORER™ 727



Specifications:

Full Class 11 performance

Data:

200/258 kbps (Background, all elevations)
Streaming: 32, 64, 128kbps

Voice:

AMBE+2 (3.1khz audio, no ISDN)

Interfaces:

2 Ethernet with PoE
1 2-wire
Power (10.5 - 32 VDC)

Dimensions:

Antenna: Ø: 350 mm, H: 120mm
Transceiver: Similar to Sailor 150 BDU

EXPLORER™ 325

Package

- EXPLORER™ 325 Antenna
- EXPLORER™ 325 Transceiver
- Thrane IP Handset (wired)
 - Incl. cradle
- Antenna cable 2.7m
- Standard Ethernet Cable 2m
- DC Power Cable 1m
- Printed Quick Guide
- CD with installation manual / user manual.
- Optional
 - Cable support and various cable length



EXPLORER™ 325

New Antenna

- Mechanically steered – maintenance free
- 2 element helix
- 2-axis stabilized
- Down to 5° elevation angle
- Built-in magnetic mounts.
- Colors – white
- Single coax cable with TNC connectors
 - RF, DC & modem



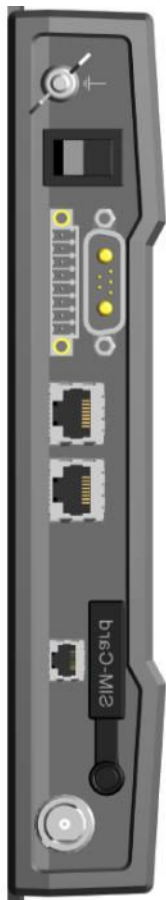
Size:

Radius = 35 cm / 13.78 inches

Height = 12 cm / 4.7 inches

EXPLORER™ 325

New Transceiver



- On/Off button
- 5 x general purpose I/Os
- DC in 10.5 - 32V
- 2 x LAN interface with Power over Ethernet (PoE)
- 2 x Phone/fax interface RJ-11
- 1 Sim-Card slot
- Antenna connector



Up to 384 kbps



Weight
Transceiver: ~2.4 kg



Standard data (PS)
Streaming data (QoS)(32, 64, 128 kbps)
Standard voice (CS)



Environmental protection:
Antenna: IP-56
Transceiver: IP-31
Dust and spray proof

EXPLORER™ 325

Including the Thrane & Thrane IP Handset

- Powered over Ethernet (PoE)
- Supports VoIP (SIP server in terminal)
- Handset can be used to configure the terminal
- Build-in web server for easy configuration
 - Can be configured directly from the terminal web server
- Up to 16 handsets per terminal
 - offering support for multiple VoIP calls
- QVGA color display with Night color option
- Hands free and Headset options
- Local calls and call forwarding (built-in PBX)
- No drivers needed
- IP rating 54
- Embedded crypto



Vehicular BGAN line-up



EXPLORER™ 325



EXPLORER™ 727

Bandwidth (UL / DL)	Up to 384 kbps 200 / 258 kbps above 5° elevation	Up to 492 kbps 432 / 432 kbps above 5° elevation
Quality of Service	32, 64, 128 kbps	32, 64, 128 & 256 kbps (>45°)
ISDN	No	Yes
Premium Voice	3.1 kHz audio via 2-wire	3.1 kHz audio
Ethernet	Yes – 2 ports	Yes – 4 ports
2-wire	Yes – 1 port	Yes – 2 ports
WLAN	No	No
DHCP, NAT & PAT	Yes	Yes
Single-user / Multi-user	Multi	Multi
Detachable antenna	Up to 50 m	Up to 50 m
Weight: Transceiver Antenna	2.4 kg / 5.5 lbs 4.5 kg / 9.9 lbs (TBD)	2.4 kg / 5.5 lbs 6 kg / 13.2 lbs
Size (H x W x D): Transceiver Antenna	41 x 231 x 278 mm 120 x Ø350 mm	42.5 x 247 x 270 mm (19" rack opt.) 150 x Ø476 mm
Ingress Protection Antenna	IP-56	IP-56

Produkt	Wideye Sabre Ranger	Hughes 9202 M2M	Explorer 325	Explorer 727	Hughes 9350-C10	Hughes 9450-C11
Hersteller	Addvalue Communication www.wideye.com.sg	Hughes Network Systems www.hughes.com	Cobham plc www.cobham.com	Cobham plc www.cobham.com	Hughes Network Systems www.hughes.com	Hughes Network Systems www.hughes.com
Montageart	Festinstallation	Festinstallation	Fahrzeug	Fahrzeug	Fahrzeug	Fahrzeug
Stromversorgung						
DC input	15V	12 / 24V	10,5 - 32V	10 - 32V	12 / 24V	12 / 24V
Größe mm	305 x 186 x 49	150 x 200 x 45 Transceiver 385 x 385 x 33 Antenne	278 x 231 x 41 Transceiver Ø 350 x 120 Antenne	270 x 247 x 42,5 Transceiver Ø 476,5 x 160 Antenne	260 x 256 x 50 Transceiver Ø 477 x 153 Antenne	281x 234 x 46 Transceiver Ø 252 x 119 Antenne
Gewicht	1,5 kg	1,2 kg Transceiver 1,9 kg Antenne separat	2,4 kg Transceiver 4,5 kg Antenne autom. nachführend	2,4 kg Transceiver 6,0 kg Antenne autom. nachführend	2,8 kg Transceiver 5,5 kg Antenne autom. nachführend	2,3 kg Transceiver 1,9 kg Antenne autom. nachführend
Antenne	fest integriert					
Standard IP bis zu upload/download	240 / 384 kbit/s		384 / 384 kbit/s	432 / 432 kbit/s	492 / 492 kbit/s	400 / 400 kbit/s
Streaming IP	32, 64 kbit/s		32, 64,128 kbit/s	32, 64,128, 256 kbit/s QoS	32, 64,128, 256 kbit/s QoS bei Inklination >45°	32, 64,128, 256 kbit/s QoS bei Inklination >45°
Schnittstellen						
Sprache	1 x RJ-11		1 x RJ-11	1 x RJ-45 2 x RJ-11 3,1 kHz audio	1 x RJ-45 2 x RJ-11 3,1 kHz audio-Fax	1 x RJ-45 2 x RJ-11 3,1 kHz audio
Schnittstellen Daten	1 x Ethernet SCADA	1 x Ethernet	2 x Ethernet PoE	4 x Ethernet PoE	1 x Ethernet PoE WLAN 802.11b	4 x Ethernet PoE WLAN 802.11b
	3GPP AT Commands	USB RS-232 (DB9)	5 x I/O	5 x I/O	USB Nutzung simultan mgl.	Nutzung simultan mgl.
ISDN				UDI/RDI 64/56 kbit/s	64 kbit/s über RJ-45	64 kbit/s
Multi-User	-	-	2	4	11	11
Schutzklasse	IP65	IP 40 Transceiver IP 65 Antenne	IP 31 Transceiver IP 56 Antenne	IP 31 Transceiver IP 56 Antenne	IP 54 Transceiver IP 56 Antenne	N/A Transceiver IP 56 Antenne