EXPLORER 700

Portable Inmarsat BGAN terminal

COBHAM

2013 Data Sheet

The most important thing we build is trust

EXPLORER 700

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When versatility and high speed matters

EXPLORER 700 provides access to the highest bandwidth available via BGAN, thereby facilitating a platform for a wide range of applications with need of high performance.

Disregarding the environmental conditions, it is designed to last and with the detachable antenna, it is ideally suited for temporary camps or semi-fixed installations.

Versatility

The flagship in the EXPLORER series provides multiple interfaces to support a wide range of applications. Ideal for video streaming applications and large file transfer and can be used by smaller workgroups sharing a temporary or semi permanent office environment.

Rough environments

Designed to withstand severe environmental conditions such as humidity, dust, extreme weather and changing temperatures.

High-speed

The fastest BGAN terminal on the market with download and upload at 492 kbps. Moreover, it supports Inmarsat's BGAN X-Stream, on-demand streaming at +384 kbps for applications demanding outstanding performance

Specifications

Dimensions

Total H / W / D:	297 / 399 / 51 mm
	11.7 / 15.7 / 2.0 inches
Transceiver H / W / D:	280 / 228 / 40 mm
	11.0 / 8.9 / 1.6 inches
Antenna H / W / D:	297 / 399 / 51 mm
	11.7 / 15.7 / 2.0 inches

Total weight: 3.7 kg / 8.1 lbs (Incl. battery)

Antenna:	2.1 kg / 4.6 lbs
Transceiver:	1.6 kg / 3.5 lbs

Global Services

Voice:	4 kbps AMBE+2
Premium voice:	3.1 kHz audio, 64 kbps
Standard IP:	Up to 492 kbps
Streaming IP:	32, 64, 128, 256 kbps
BGAN X-Stream:	Min. 384 kbps (384 to 450 kbps)
ISDN:	UDI 64 kbps / RDI 56 kbps
SMS:	160 characters

Inmarsat frequencies: 1525.0 – 1559.0 MHz (Rx)
1626.5 – 1660.5 MHz (Tx)

EIRP: 20dBW ±1dB

User Interface:	LCD Display, 4 navigation keys and power.
	Audio and LCD pointing aids and LED
	indicators. Thrane & Thrane web interface
Languages:	UK, FR, DE, ES, RU and CN
Approvals:	CE, FCC, GMPCS
	Inmarsat Class 1 Type Approval

Interfaces

2 x Analogue RJ-11 phone/fax interfaces

1 x Bluetooth interface (vers. 1.2)

Frequencies:	2400.0 – 2483.5 MHz
Max. coverage, outdoor:	100m / 328ft
Max. devices connected:	7 handsets, 1 PC
Standard:	Power Class 1

2 x LAN interface

Connector type:	RJ-45
Data rate:	10/100 Mbps
Max. cable length:	100m / 328ft (Cat5 UTP)

1 x USB interface

Version:	1.1 (slave)
Connector type:	B plug
Max. cable length:	5m / 16.4ft

2 x ISDN interface

Connector type:	RJ-45
Max. units per port:	8, max. total power supplied 1W

1 x Transceiver/Antenna interface

Connector type:	TNC-QN
Max. cable length:	100m / 328ft, single coax
Max. cable loss:	1.4 / 20dB @ 1.5GHz

2 x BGAN SIM-Card slots

WLAN Access Point (not included in 403720A-00510)

Standard:	IEEE 802.11 a/b/g
Frequencies:	2400.0-2485.0 MHz and
	5150.0-5850.0 MHz
Max. coverage outdoor:	100m / 328ft
Max. datarate:	54 Mbps

Environmental conditions

Temperature

Operational (ambient):	-25˚C to +55˚C / -13˚F to +131˚F
Storage (excl. battery):	-40˚C to +80˚C / -40˚F to +176˚F

Battery storage temperature

1 month:	-20˚C to +60˚C / -4˚F to +140˚F
3 months:	-20˚C to +45˚C / -4˚F to +113˚F
1 year:	-20˚C to +20˚C / -4˚F to +68˚F

Relative humidity: 95% non-condensing
at +40˚C / +104˚F

Robustness: 0.5m / 1.64ft drop on concrete
(operational, 95% survival)

Water and dust: Transceiver: IP52 / Antenna: IP66

Power

DC input range: 10-32VDC

Power consumption

Standby / Transmit mode:	1.2W / 18W (typical)
During charging:	65W (max.)

AC/DC power supply

Input:	100-240VAC, 47-63Hz, 65W
Output:	19VDC
Connector type:	2.5 / 5.5 mm power jack

Battery: Lithium ion, rechargeable

Stand-by time:	36h, 25˚C / 77˚F
Transmit time, max.:	2h30m @ 144 kbps (158MB),
(25˚C / 77˚F)	1h30m @ 492 kbps (324MB),
Receive time, max.:	3h30m @ 492 kbps (756MB),
Min. number of charges:	300
Recharge time:	2 hours 30 minutes
Charge temperature:	0˚C to +45˚C / 32˚F to +113˚F

Other features

Phonebook, Fax, Message indicator, Traffic logging, Admin control (password protected), Webserver, Router or direct mode, Network Management, DHCP, SIP server, Remote Management, Up to 11 x PDP context, Point-to-point Protocol over Ethernet (PPPoE), Solar Panel powering.

Package

EXPLORER 700 transceiver & antenna incl. rechargeable lithium ion battery, 0.4m & 10m antenna cables, 2m ISDN/LAN cable, 1.8m USB cable, 115/230VAC power supply, Getting started kit: Quick start guide, CD with manuals.

Product number

403720A-00700	EXPLORER 700 Terminal
403720A-00510	EXPLORER 700 Terminal w/o WLAN

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