EXPLORER™ 727

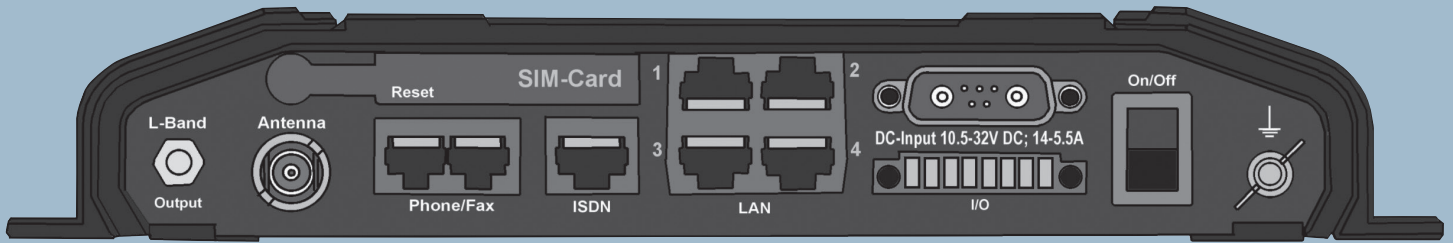## COMPREHENSIVE COMMUNICATION HUB FOR VEHICLES

EXPLORER 727 is a high-speed, vehicular broadband system. It consists of three fully integrated units – a transceiver, an IP handset and a roof mountable antenna.

Live media broadcast, defense or humanitarian operations requires communication equipment that you can always rely on. With EXPLORER 727 you get the most comprehensive and best in class Mobile Communication Hub.

- **High-speed broadband on-the-Move:** Automatically tracks satellite positions enabling high-speed connectivity while on-the-move. Simultaneous 432 kbps data and phone calls – even at speeds in excess of 200 km/h.

- **Mobile Communication Hub:** Place the antenna on the roof of your vehicle to turn it into a complete mobile communication hub. Provides access to the internet and phone networks instantly.

- **Live streaming - or store-and-forward:** Facilitates both live streaming and store-and-forward and enables direct transmissions from the hot spots of the world. Utilize the highest streaming rates available on BGAN with BGAN X-Stream when the terminal is standing still (on-the-pause).

NEW FEATURE: BGAN X-STREAM™ ON EXPLORER 727
Thrane and Thrane will launch a unique feature that gives the EXPLORER 727 high streaming data capabilities. BGAN X-Stream is Inmarsat's premium IP streaming service. It offers guaranteed, on demand streaming data rates from a minimum of 384 kbps up to approximately 450 kbps. BGAN X-Stream will be included in the next EXPLORER 727 software release (expected fall 2011). The software will be backwards compatible with existing EXPLORER 727 terminals in the market.

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EXPLORER™

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Specifications

Dimensions
Transceiver H / W / D:	42.5 / 231 / 273 mm
	1.67 / 9.72 / 10.63 inches
Antenna H / W:	152 / Ø477 mm
	6.3 / Ø18.76 inches

Weight
Antenna:	6 kg / 13.2 lbs
Transceiver:	2.5 kg / 5.5 lbs

Global Services
Voice:	4 kbps AMBE+2
Premium voice:	3.1 kHz audio, 64 kbps (@ elevation>20°)
Standard IP:	Up to 492 kbps
Streaming IP:	32, 64, 128, 256 kbps
	(256 kbps @ elevation >45° on-the-move / >15° on-the-pause*)
BGAN X-Stream:	Minimum 384 kbps on-the-pause*
ISDN:	UDI 64 kbps / RDI 56 kbps (@elevation>20°)
SMS:	160 characters

* On-the-pause capabilities to be included in the next EXPLORER 727 software release (expected fall 2011). The new software will be backwards compatible with existing EXPLORER 727 terminals.

Elevation
Guaranteed service:	Works above 5° elevation

Inmarsat BGAN frequencies
Receive (Rx):	1525.0 − 1559.0 MHz
Transmit (Tx):	1626.5 − 1660.5 MHz

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
Operational (ambient):	-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:	IP31
Antenna:	IP56

Interfaces

4 x 10/100 Mbit Ethernet RJ-45 LAN interfaces with Power over Ethernet (PoE)
2 x Analogue RJ-11 phone/fax interfaces
1 x RJ-45 ISDN interface
5 x I/O connector with General Purpose I/Os
1 x SIM-Card slot

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

Power
DC input range:	10.5 to 32V
Power (max) @ 10.5-32V.:	150W (incl. antenna & PoE output)

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.

General

User interface
Power On/Off button
DC power input connector with Remote on/off and locking mechanism
Status LEDs for Power, Transceiver, Antenna, Messages, Activity, Link and PoE
Thrane & Thrane web interface
Factory default reset

Languages (web user interface)
UK, FR, DE, ES, RU and CN

Approvals
CE, GMPCS, FCC
Inmarsat Land Class 10 Type Approval (Vehicular)

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 727 transceiver
EXPLORER 727 tracking antenna
Antenna cable, coax w/ TNC plug (2.7m & 8m / 8.8ft & 26ft)
Standard ethernet cable (5m / 16.4ft)
24V DC input cable (6m / 19.7ft) with 5 additional wires for I/O connectors
Thrane IP handset w/ cradle & coiled cable
Antenna mounting kit (fixed / rail)
Getting started kit: Quick start guide, CD with manuals

Accessories

EXPLORER 2-wire handset
Magnetic mount (antenna)
Antenna cables (coax, TNC/TNC): 8m, 14m, 50m

Product Number

403722A-20000	EXPLORER 727 System, white antenna
403722A-00700	EXPLORER 727 System, desert sand antenna
403722A-20010	EXPLORER 727 System, 19" rack version, white antenna
403722A-00710	EXPLORER 727 System, 19" rack version, desert sand antenna

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