

EXPLORER™ 727

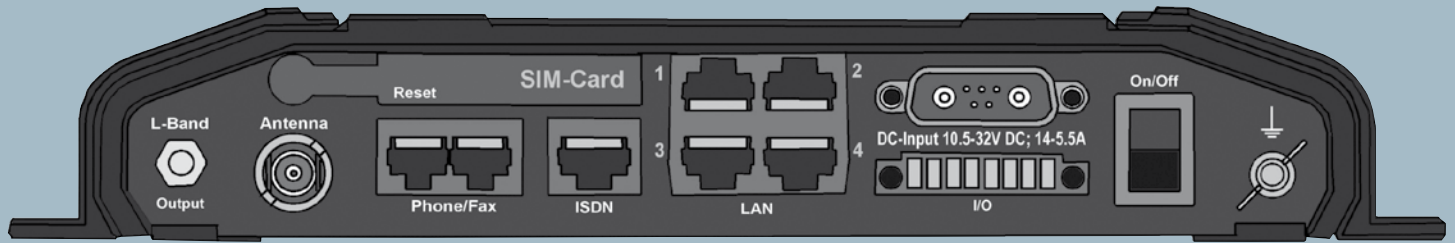
PROVIDES BROADBAND TO MOVING VEHICLES



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

Whether you're engaged in defense, humanitarian operations, live radio or TV broadcasts or telemedicine, you need rapidly deployable communication equipment you can always rely on.

- **Broadband-on-the-Move:** Constantly tracks satellite positions and makes high-speed connectivity and communication possible – 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
- **Seamless global coverage:** High-speed broadband connection at all times regardless of time, place or job



Specifications

Dimensions

| | |
|----------|-----------------------|
| Terminal | |
| H/W/D: | 42.5x247x270mm |
| H/W/D: | 1.67x9.72x10.63inches |
| Antenna | |
| H/W: | 160/Ø476.5mm |
| H/W: | 6.3/Ø18.76inches |

Weight

| | |
|--------------|----------------|
| Transceiver: | 2.4 kg/5.5 lbs |
| Antenna: | 6 kg/13.2 lbs |

Data capabilities

| | |
|---------------|--|
| Standard IP: | |
| Receive: | 432kbps |
| Transmit: | 432kbps |
| Streaming IP: | 32, 64, 128, 256kbps (256kbps @ elevation > 45°) |
| ISDN: | UDI 64kbps/RDI 56kbps (@ elevation > 15°) |

Text capabilities

| | |
|-----|-----------|
| SMS | 160 char. |
|-----|-----------|

Voice capabilities

| | |
|-----------------|--|
| Standard voice: | 4 kbps |
| Premium voice: | 3.1 kHz audio, 64 kbps (@ elevation > 15°) |

Inmarsat frequencies

| | |
|-------------|---------------------|
| Receive: | 1525.0 – 1559.0 MHz |
| Transceive: | 626.5 – 1660.5 MHz |

Recommended antenna cable

| | |
|---|-------------|
| Cable loss max: | |
| 1525.0 – 1660.5 MHz | 20 dB |
| 36 – 54 MHz | 4 dB |
| Maximum DC loop resistance 0.6 ohm | |
| Max. cable length pr. type | |
| RG-223_U-01 | 14 m/46 ft |
| RG-214_U-01 | 50 m/164 ft |

Environmental Conditions

| | |
|------------------------------|-------------------------------------|
| Operating temperature | -25 to +55°C/-13 to 131°F |
| Water and dust | Transceiver: IP-31/Antenna: IP-56 |
| Relative humidity | 95% non-condensing (at +40°C/104°F) |
| Storage temperature | -40 to +85°C/-40 to 185°F |
| Survival temperature | -40 to +80°C/-40 to 176°F |

Interfaces

4x10/100 Mbps Ethernet LAN user ports w/PoE

| | |
|---------------------|------|
| Max power (12V) at: | 30 W |
| Max power (24V) at: | 60 W |

| | |
|-----------------|----------------|
| 1xISDN | Euro - RJ-45 |
| 2x2-wire | Analog - RJ-11 |

5xI/O connector with General Purpose I/Os

Pin 1: Ringer, Pin 2: Warning, Pin 3: Mute,
Pin 4: Radio Silence, Pin 5: Ignition Control

1xSIM card slot

1xHeavy duty power input plug (10-32 VDC)
w/remote on/off and locking mechanism

Power

Maximum incl. antenna & PoE @ 10-32 V: 150 W

General

User interface

Status LEDs for Power, Terminal, Antenna, Messages, LAN Activity, Link and PoE
Factory default reset button
Power on/off switch
Thrane & Thrane web interface
BGAN LaunchPad

Languages

UK, FR, DE, ES, RU and CN (CN end 2009)

Approvals

CE, GMPCS, FCC
Inmarsat Land Vehicular Type Approval

Features

Phonebook
Message indicator
Restricted dialing
Traffic logging
Admin control (password protected)
Webserver
Router or direct mode
Network Management
DHCP
SIP server (end 2009)
Up to 11 x PDP context
Point-to-Point Protocol over Ethernet (PPPoE)
Power over Ethernet (PoE)

Package

EXPLORER 727 Terminal
EXPLORER 727 Tracking Antenna
Antenna cable, coax w/ TNC plug (2.7 m & 8 m/8.8 ft & 26 ft)
Standard ethernet cable (5 m/16.4 ft)
24 VDC input cable (6 m/19.7 ft)
Thrane IP handset w/ cradle & coiled cable
Cable between cradle & terminal (5 m/16.4 ft)
Antenna mounting kit (Fixed/Rail)
Cable support
Documentation package (Getting started kit & CD)

Accessories

19" Rack mount (terminal)
EXPLORER 2-wire handset
Magnetic mount (antenna)
Optional antenna color: White