

## EXPLORER® 727

Fulfils the Need for Rapid Communication



### HIGH SPEED BROADBAND ON THE MOVE

**Today's requirements for dynamic rapid response and deployable communications have never been more critical. To meet this demand Thrane & Thrane has developed the EXPLORER 727 – thus turning your vehicle into a mobile communications hub.**

This means that you will have access to phone networks and the Internet while you are on the move anytime and anywhere in the world. The EXPLORER 727 antenna on the roof is constantly tracking satellite positions, which provides you with a high speed broadband connection at all times. Whether you're engaged in military actions, live broadcast, telemedicine, video conferencing or live interviews, you need to rely on rapid response and deployable communications.

The EXPLORER 727 is unparalleled in the industry today with its robust, reliable and durable design. The EXPLORER 727 was developed with focus on High Speed Broadband on the Move solutions for key markets, including: Department of Defence (DoD), government and commercial organizations with broadband satellite communications requirements.

Be prepared and ensure that your agency has the resources for High Speed Broadband Communication on the Move with Thrane & Thrane's second generation and vastly enhanced EXPLORER 727.

Learn more about the EXPLORER® 727 at [www.thrane.com](http://www.thrane.com)

#### Typical applications:

- Simultaneous voice and data
- Legacy analog and ISDN crypto devices
- IP crypto
- Surveillance
- Back-up
- Data collector
- Situation awareness
- Live broadcast
- High quality audio broadcasting
- Video conferencing
- Large file transfer
- Voice over IP (VoIP)
- VPN
- Access web and mail
- Stream video
- SIPR/NIPR

# EXPLORER®



### Approvals

Inmarsat Land Vehicular Type Approval  
CE mark, GMPCS

### 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:  
At 1525.0 – 1660.5 MHz 20 dB  
At 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  
S-07262-BD 92 m/302 ft

### Global Services

Voice:  
Standard 4 kbps Yes  
Premium 3.1 kHz audio (\*1) Yes  
Fax:  
ISDN, 3.1 kHz audio (\*1) 64 kbps  
Data:  
ISDN UDI/RDI (\*1) 64/56 kbps  
ISDN 3.1 kHz audio (\*1) 64 kbps  
Standard data up to 432 kbps  
Streaming data (QoS) Up to 256 kbps  
Text messaging:  
SMS 160 char.

### Antenna Connectors

EXPLORER Terminal TNC-socket, female  
EXPLORER Antenna, TNC-socket, female

### Interfaces

4 x 10/100 Mbps Ethernet LAN user ports w/PoE  
- Max power at 12 V, 30 W  
- Max power at 24 V, 60 W  
1 x ISDN (Euro – RJ-45)  
2 x 2-wire (Analog – RJ-11)  
5 x I/O connector with General Purpose I/Os:  
Pin 1: Ringer  
Pin 2: Warning  
Pin 3: Mute  
Pin 4: Radio Silence  
Pin 5: Ignition Control  
1 x SIM card slot.  
1 x Heavy duty power input plug (10-32 VDC).  
- w/ remote on/off and locking mechanism  
1 x Factory default reset button  
1 x Power on/off switch  
Status LEDs for:  
Power, Terminal, Antenna, Messages, LAN Activity, Link, PoE

### Power Consumption

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

### Included in 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)

### Environmental Conditions

Ambient temperature: -25 to +55°C (-13 to 131°F)  
(Operational)  
Survival temperature: -40 to +80°C (-40 to 176°F)  
(Power on, non-functional)  
Storage temperature: -40 to +85°C (-40 to 185°F)  
Operating humidity: 95% non-condensing (at +40°C/104°F)  
EXPLORER Terminal: IP-31  
EXPLORER Antenna: IP-56

### Features

Phone book  
Message indication  
Restricted dialing  
Traffic logging  
Admin control (password protected)  
Web server  
Router mode  
Direct mode  
Network management  
DHCP  
SIP server  
Up to 11 x PDP-context

### Dimensions and Weight

Weight:  
Antenna 6 kg/13.2 lbs  
Transceiver 2.4 kg/5.5 lbs  
Size:  
Transceiver:  
H/W/D [mm] 42.5 x 247 x 270  
H/W/D [inches] 1.67 x 9.72 x 10.63  
Antenna:  
H/W [mm] 160/Ø476.5  
H/W/D [inches] 6.3/Ø18.76

### Accessories

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

### Future Options

Multicast (Inmarsat dependant)  
L-band RX applications

Subject to change without further notice.

\*1 Service only supported from 15 degrees elevation and inwards.