

EXPLORER® 727

Fulfil 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

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: Ring
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.

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