

EXPLORER Push-To-Talk Unit

Installation guide

What's in the box?



EXPLORER 3647 PTT terminal



EXPLORER 6205
Control Speaker
Microphone

- The following items are included in the delivery:
- EXPLORER 3647 PTT terminal
 - EXPLORER 6205 Control Speaker Microphone and cradle (incl. 4 screws)
 - Main power cable
 - Extension cable for EXPLORER 6205 (5 m)
 - Cable relief bracket (incl. rubber spacers and 2 mounting screws)
 - Quick guides (1 for Group call, 1 for Dispatch)

Installation instructions

1. Install the EXPLORER 325 BGAN terminal and antenna as described in the EXPLORER 325 Installation Manual.
Do not use the power cable supplied with the EXPLORER 325.
2. Mount the cable relief bracket on the EXPLORER 3647 PTT terminal as shown in the drawing on this page.
3. Mount the EXPLORER 3647 PTT terminal and the cradle of the EXPLORER 6205 Control Speaker Microphone according to the drilling plans.
4. Ground the EXPLORER 3647 PTT terminal through one of the 4 mounting screws, see the grounding symbol on the terminal and in the system configuration drawing on the next page.
Ensure proper connection to chassis!
5. Connect the cables as shown in the system configuration drawing.

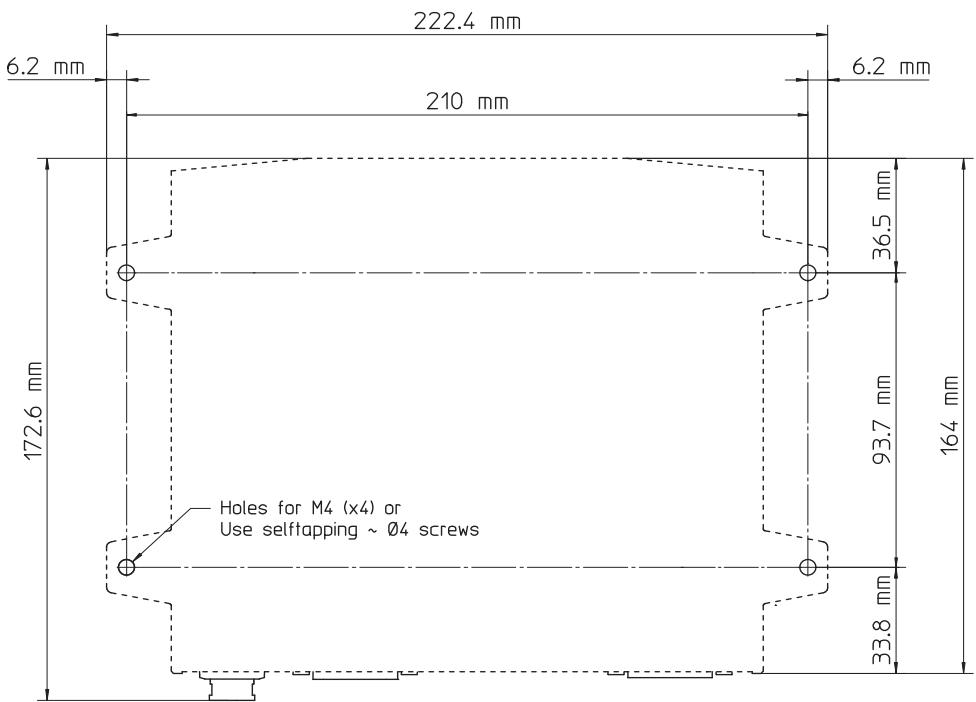
Power cable	Use the power cable supplied with the EXPLORER Push-To-Talk Unit. The power connectors are interchangeable. Connect one connector to the EXPLORER 325 BGAN terminal and the other to the EXPLORER 3647 PTT terminal. The power cable must be externally fused with a 25 A fuse.
Cable for cellular modem	Use any of the USB connectors. You can connect 1 or 2 cellular modems.

Connect the other end of the power cable to the vehicle's battery. For pin allocation see the next page.
IMPORTANT: It is recommended to connect the EXPLORER 3647 PTT terminal to ignition. Other installations risk a fast drain of the vehicle's battery.

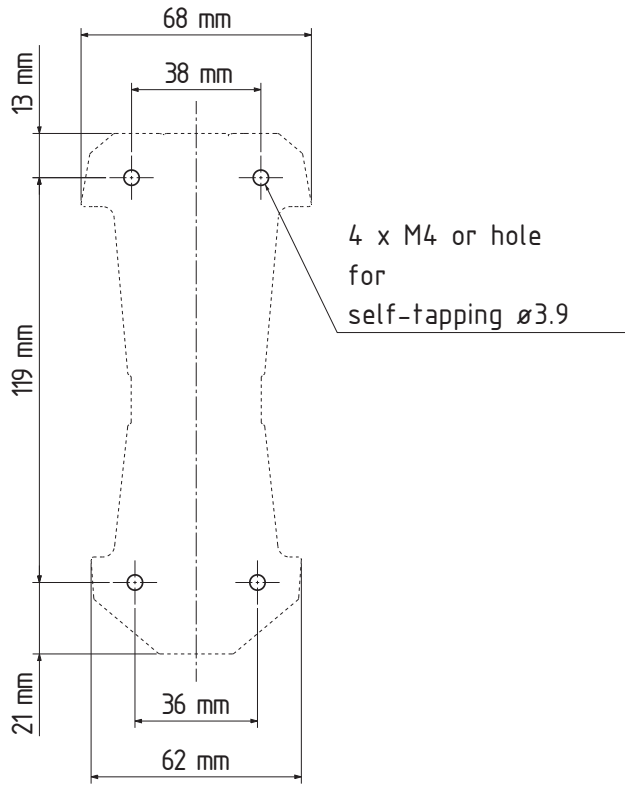
Important notes for the cellular modem

- Place the cellular modem for optimum signal reception, i.e. with good visibility and not hidden away under the bonnet of the car.
- Cellular modems might have a rather high power consumption. Make sure to use a USB cable of good quality and keep the cable as short as possible.

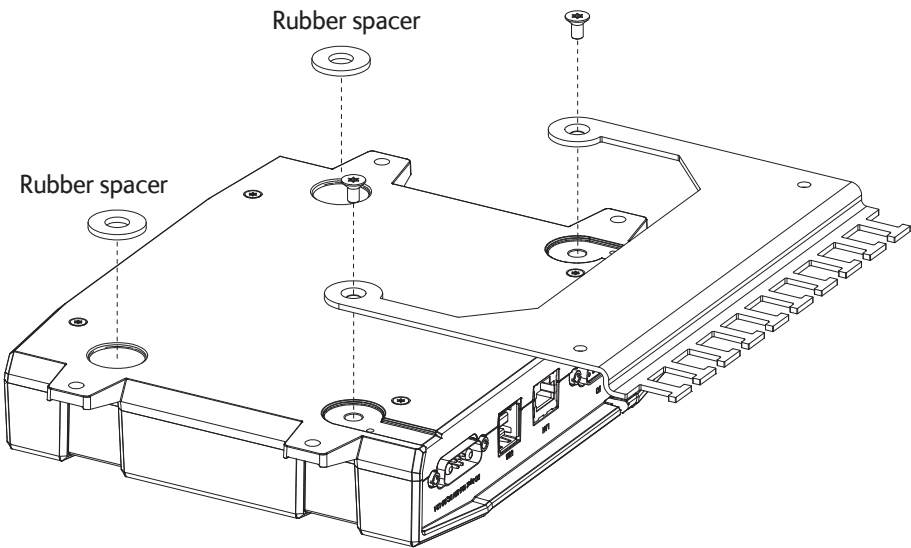
Drilling plan for the EXPLORER 3647 PTT terminal



Drilling plan for the EXPLORER 6205 cradle



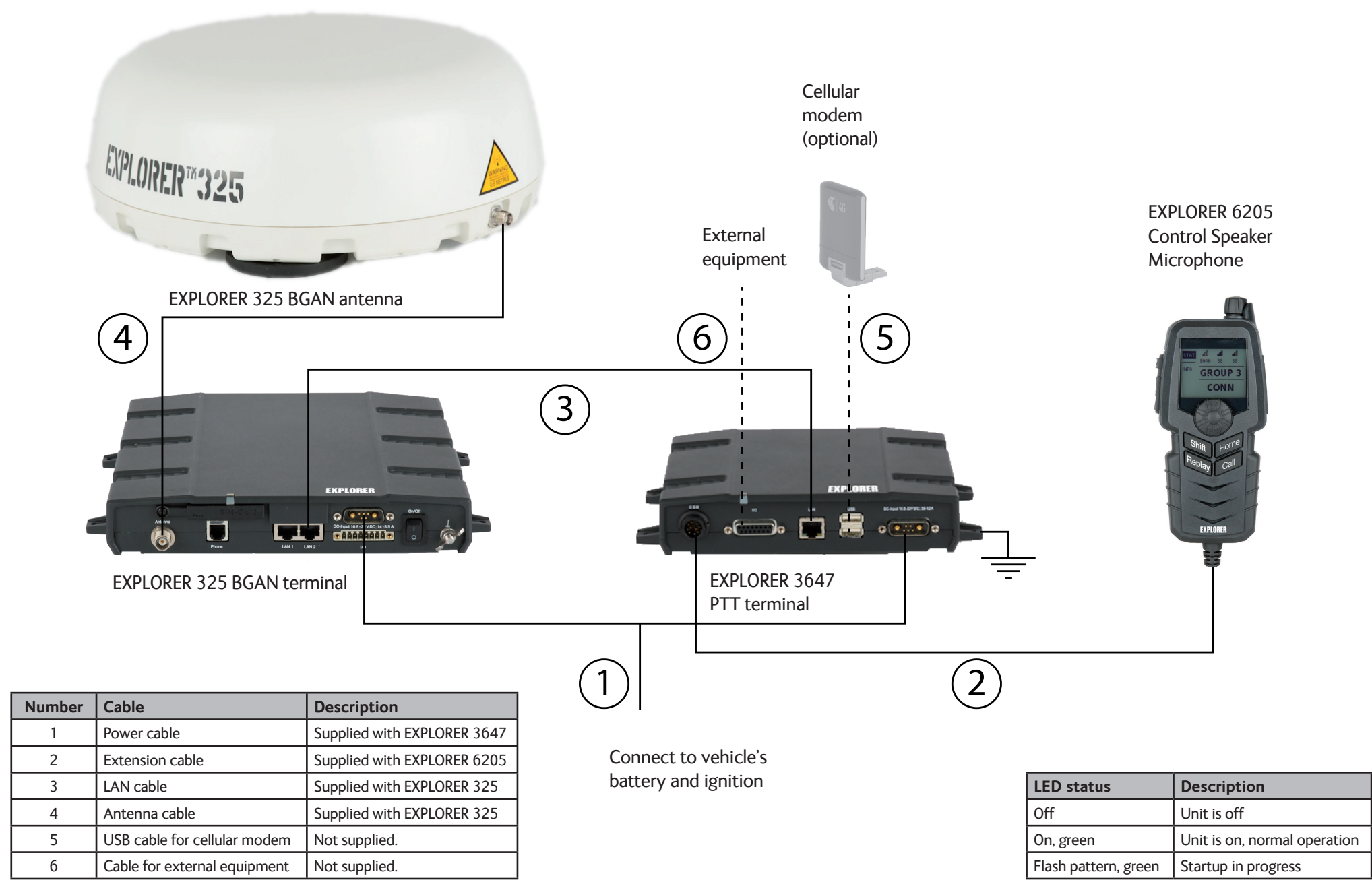
Mounting the cable relief bracket



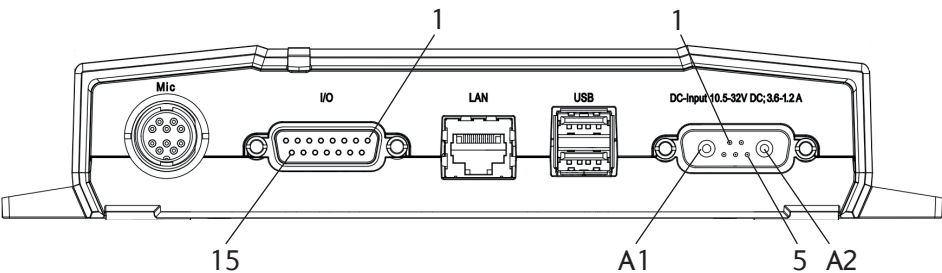
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System Configuration - Example



Connectors and pin allocation



I/O connector			Power connector	
Pin	Signal	Details	Pin	Signal
1	Line In +	600 Ohm input	A1	DC+
2	Line Out +	600 Ohm output	A2	DC-
3	+12 VDC output	Fused, max. 100 mA	1	Ignition
4	Input 1	PTT, active low	2	Common. Connected to pin 4 or pin 5.
5	Input 2	General purpose digital input	3	General purpose open drain output. Max. 300 mA.
6	Audio+	Amplified audio output 4-16 Ohm* (1 W)	4	Connected to pin 2 when the PTT unit is on.
7	Output 1	PTT, push/pull 12 V	5	Connected to pin 2 when the PTT unit is off.
8	Output 2	Open drain	Power cable wires	
9	Service port (out)	UART, RS-232 levels	Wire colour	Signal
10	Service port (in)	UART, RS-232 levels	Red	DC+
11	GND	Ground	Black	DC-
12	Audio-	Amplified audio output	Black (thin)	Ignition
13	GND	Ground	Green (thin)	Not used
14	Line Out -	Ground	Brown (thin)	Not used
15	Line In -	Ground	Red (thin)	Not used
			Orange (thin)	Not used

* Connect the loudspeaker between pin 6 and 12.

Verifying the installation

- To verify the successful installation of the EXPLORER Push-To-Talk Unit do the following:
1. Start the engine of the vehicle.
 2. Check that the LED on the EXPLORER 3647 PTT terminal is on (green).
 3. Check that the EXPLORER 6205 Control Speaker Microphone is switched on and there is light in the display. Check the signal bars for cellular modem(s) and BGAN network.



Example for Group call, connected state.

Technical specifications

Item	Specification
Dimensions, EXPLORER 3647 PTT terminal	Height: 41 mm Width: 223 mm Depth: 175 mm
Dimensions, EXPLORER 6205 Control Speaker Microphone	Height: 173 mm Width: 70 mm Depth: 52 mm, including front selector wheel and cradle
Weight, EXPLORER 3647 PTT terminal	1050 g (2 lbs)
Weight, EXPLORER 6205 Control Speaker Microphone	320 g (0.7 lb)
Operating temperature	-15 to 55 °C
Storage temperature	-40 to 80 °C
Power supply, PTT terminal	Nominal 12-24 VDC Operating 10.5-32 VDC
Power supply, Control Speaker Microphone	Powered by the PTT terminal
Power consumption, PTT terminal & Control Speaker Microphone	38 W