



Installation and Configuration Quick Guide TPH6700 IP67 PC/ABS Housing

For R2000/R2000 Ent/R3000/R3000 Lite



Introduction

About This Document

This document provides hardware information of the Robustel TPH6700 Housing, including introduction and installation.

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Package Contents

Before installing your TPH6700 housing, please verify the kit contents as following.

• 1 x Robustel TPH6700 IP67 PC/ABS Housing



Optional Accessories (sold separately)

AC power supply board

(not apply to R2000 Ent)

Input: 100-240 VAC, 0.5 A MAX, 50-60 Hz

Output voltage: +14 V@2 A Output power: 28 W

Operating temperature: -40~+85 °C



• 3G/4G antenna

Frequency range: 800-2700 MHZ Impedance: 50 ohm Weight: 0.2 kg



GPS antenna

Impedance: 50 ohm Length: 3 m



Power supply cable (3/5 pin)

Transmission rate: 100 Mbps Length: 2 m



Wall mounting kit

Material: Aluminum Dimensions: 185 x 180 x 30 mm



Wi-Fi antenna

Frequency range: 2400-2483/5725-5850 MHZ Impedance: 50 ohm Weight: 0.2 kg



• Ethernet cable (4/8 pin)

Transmission rate: 100 Mbps Length: 2 m



Serial port cable (8 pin)

Transmission rate: 100 Mbps Length: 2 m



• Pole mounting kit

Material: Stainless steel Width: 12 mm



*If any of the above items is missing or damaged, please contact your Robustel sales representative.

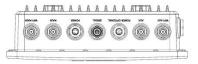
Product Overview

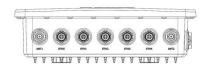












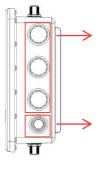
Left View

Froint View

Right View

Rear View

Top & Bottom View



Core plug—seal up these unneeded interfaces for protecting

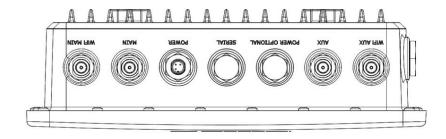
Vent plug—applied to balance differential pressure, protect from dust and water, and ventilate the enclosure

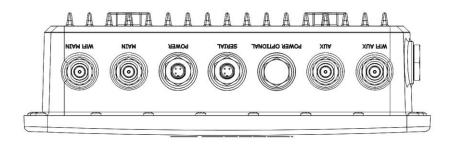
Item	Description
Metal	PC/ABS
Weight	1010 g
Dimensions	310 x 245 x 93.4 mm
Ingress protection	IP67
Standards for the housing	Fully detachable
	Performance requirement for high and low temperature
	Aging-resistance level (UL746C)
	Flame-retardant level (grade 2 of UL746C)
	Standard requirement for environment protection

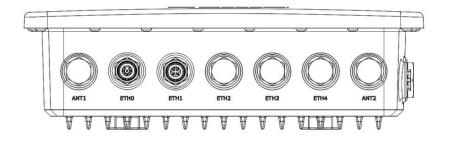
The interface of each housing model is slightly different. For more details in each model, see the following views.

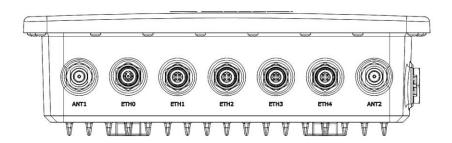
R2000:



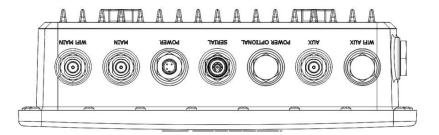




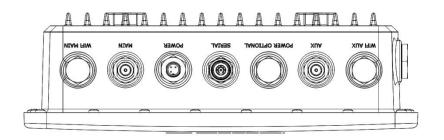


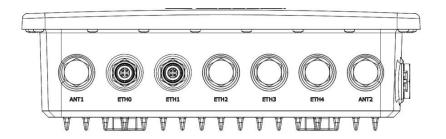


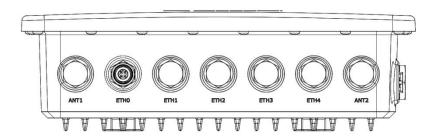
R3000:



R3000 Lite:





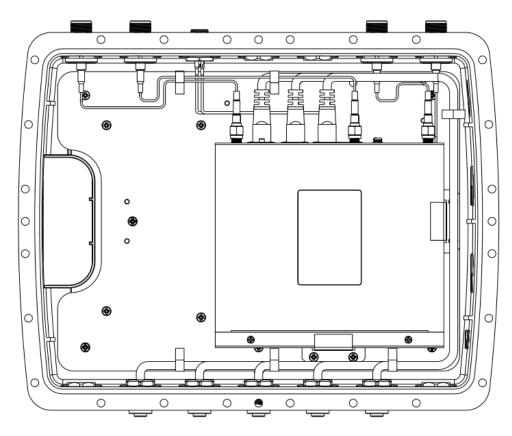


SIM Card Installation

You need to remove the installed device when you install.

1. Remove the detachable cover of TPH6700 housing with a screwdriver.

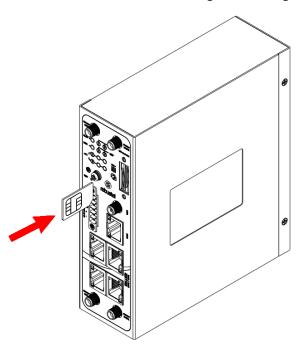
Note: Your device has been installed into the enclosure before delivery.



2. Disconnect all cables or wires of the router and take it out.

3. Make sure the router is powered off. Find the SIM slot, insert the SIM card correctly, and press the card with finger until you hear a click. If you need to remove the card push inward again and the card will pop out.

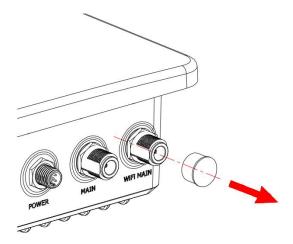
Note: For more details about inserting or removing SIM card, please contact your Robustel sales representative for relevant user guide.



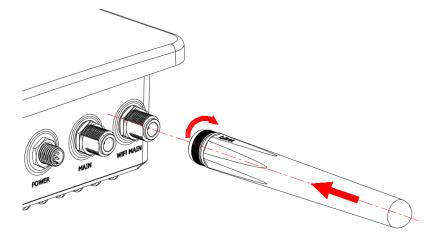
- 4. Put back the router and reconnect its cables or wires according to the original way.
- 5. Place the detachable cover back on and tighten its screws to ensure it is protected from water and dust.

Antenna Installation

1. Remove the protective caps from the cellular and Wi-Fi connectors. Here take Wi-Fi connector as an installation example.

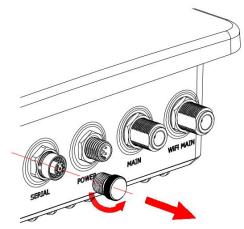


2. Connect the antenna to the corresponding antenna connector by holding onto the metal part of the antenna and rotating it clockwise. **Note**: Each antenna is labeled as 3G, 4G or WiFi for easy installation.

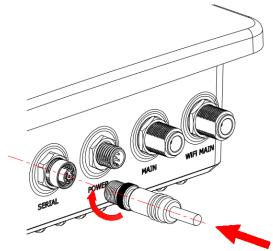


Serial Port Connection

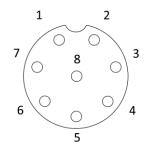
1. Remove the protective cap from the serial port connector labeled SERIAL.



2. Connect a serial port cable to the serial connector at the top of the enclosure, and rotate it clockwise.



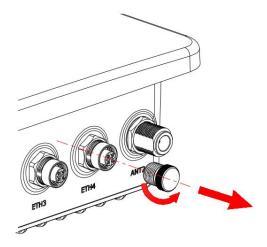
3. Connect the other end of the cable to your serial device.



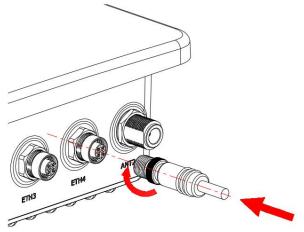
PIN	Description
1	CTS
2	RTS
3	RXD
4	TXD
5	GND
6	А
7	В
8	NC

Ethernet Connection

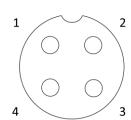
1. Remove the protective cap from the Ethernet connector.



2. Connect an Ethernet cable to any port marked ETH0~ETH4 at the bottom of the enclosure, and rotate it clockwise.



3. Connect the other end of the cable to your network interface, such as a personal computer.



PIN	Description
1	TX+
2	RX+
3	TX-
4	RX-

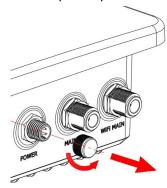
Power Options

The TPH6700 can be powered via AC/DC power supply. The enclosure provides devices with a waterproof power connector allowing it to be powered by a specific input voltage which depending on the specific device inside.

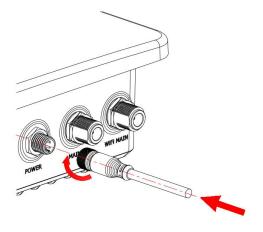
Note: For more details about power voltage, please contact your Robustel sales representative for relevant data sheet.

AC/DC Power Option

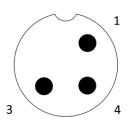
1. Locate the power port marked POWER on the top of the enclosure and remove the protective cap to find the connection pins.



2. Connect a power supply cable to the power port, and rotate it clockwise.



3. Connect the other end of the cable to your specific power supply source.



PIN	Description
1	L (VIN+)
3	PGND
4	N (VIN-)

Mountings

The TPH6700 can be mounted to a wall or a pole.

Wall Mounting

Make sure you have mounting bracket, bracket mounting screws, wall plugs, wall mounting screws and other required tools.

- 1. Before you start, make sure your SIM card has been inserted, your antennas have been attached and that all cables have been disconnected from your enclosure.
- 2. Align the mounting bracket horizontally to the desired position on the wall, use a marker pen (or a pencil) to mark four mounting holes on the wall, and then remove the mounting bracket from the wall.

Note: The connecting lines of adjacent points are at right angles.

- 3. Drill the four holes with a depth of 60 mm by using your drill with an 8 mm drill bit on the positions you marked previously in the wall.
- 4. Insert four wall plugs into the holes respectively, and make sure the exposed part is about 20 mm (Figure WM-1).

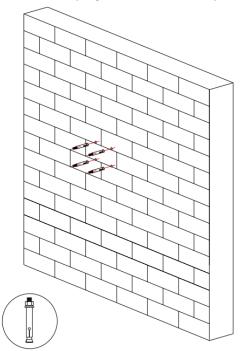
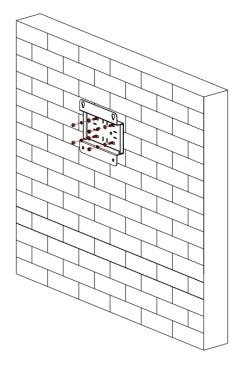


Figure WM-1

5. Mount the mounting bracket horizontally to the wall by fixing the wall mounting screws into the wall plugs (Figure WM-2).



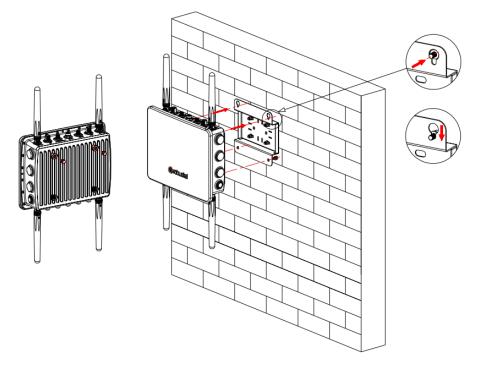


Figure WM-2

Figure WM-3

- 6. Mount the enclosure to the mounting bracket with the bracket mounting screws (Figure WM-3).
 - **Note**: Place the Ethernet port side down when installing.
- 7. Reconnect the cables to your TPH6700.

Pole Mounting

Make sure you have mounting bracket, bracket mounting screws, hose clamp and other required tools.

- 1. Before you start, make sure your SIM card has been inserted, your antennas have been attached and that all cables have been disconnected from your enclosure.
- 2. Mount the mounting bracket vertically to the back of the enclosure with the bracket mounting screws.

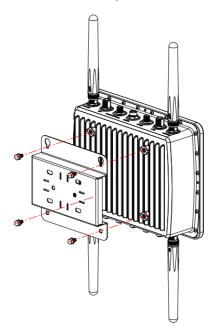


Figure PM-1

3. Loosen the hose clamp by turning the locking mechanism counter-clockwise.

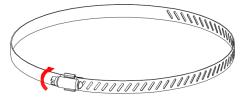
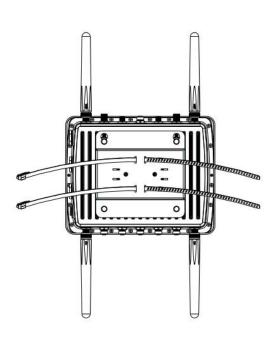


Figure PM-2

4. Straighten out the hose clamp and slide it through the rectangular holes in the mounting bracket (Figure PM-3).



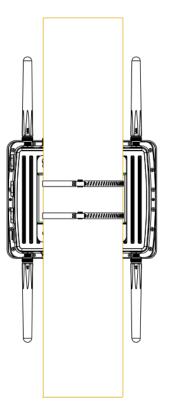


Figure PM-3

Figure PM-4

- 5. Wrap the hose clamp around the pole (Figure PM-5).
- 6. Use a screwdriver to tighten the locking mechanism by turning it clockwise.
- 7. Reconnect the cables to your TPH6700.

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