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Make network communication more reliable

ICPE2600
Industrial
Outdoor 5G Wireless Router
Quick Installation Guide

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【Package Checklist】

Please check whether the package and accessories are intact while using the device for the first time.

1. 5G Router
2. Pole/wall mounting attachment
3. PoE adapter
4. Warranty card
5. Certification

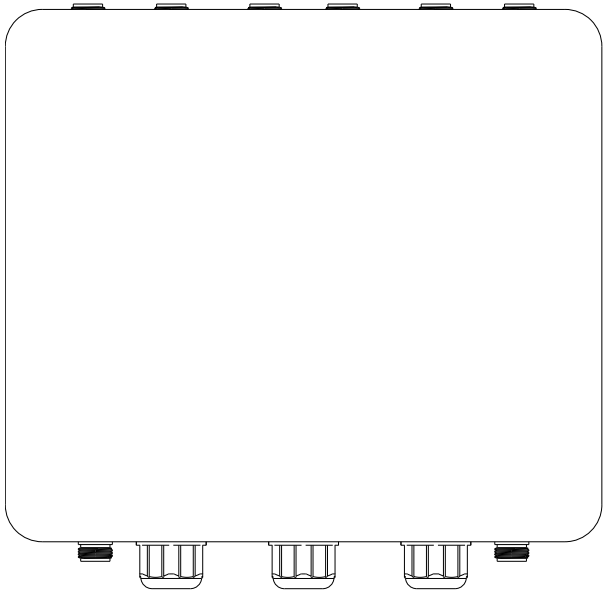
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

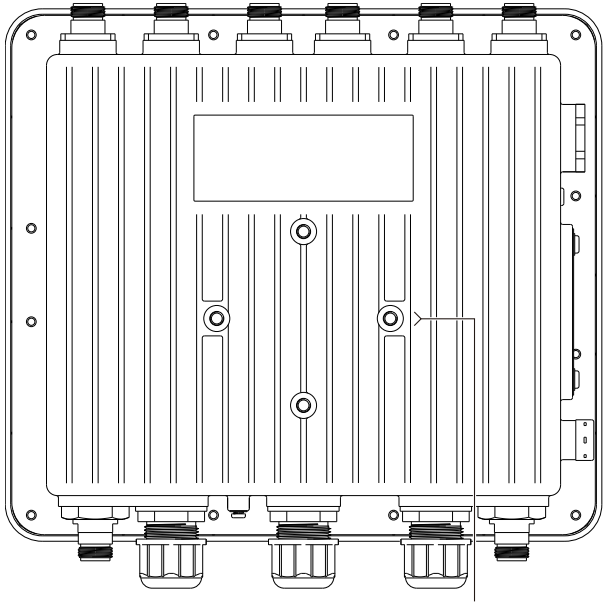
This product is Industrial 5G Wireless Router. Model is ICPE2600 (1 Gigabit PoE WAN + 1 Gigabit LAN + 2 2.4G antenna interfaces + 2 5.8G antenna interfaces + 4 5G Sub-6G antenna interfaces).

【Panel Design】

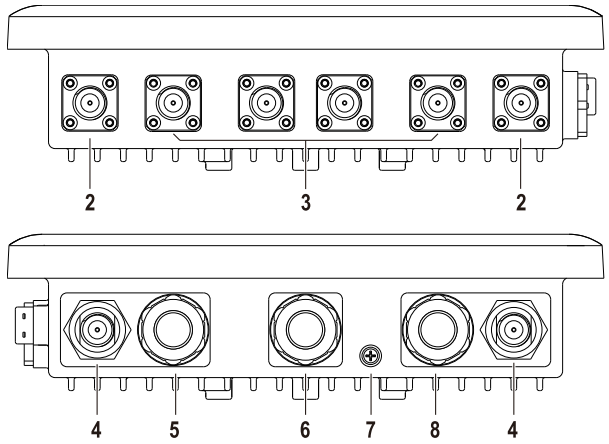
➢ **Front View**



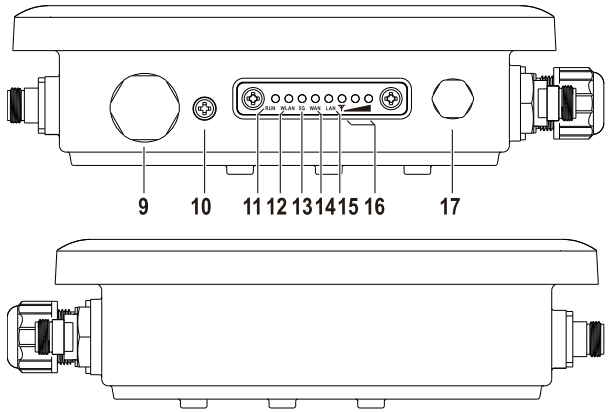
➢ **Rear View**



➢ **Top view and bottom view**



➢ **Left view and right view**

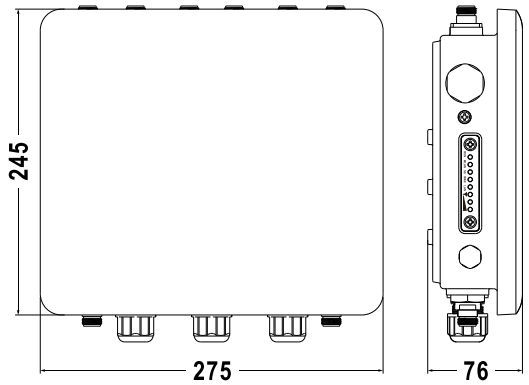


1. Wall Mounting or Pole Mounting location hole
2. 5.8G antenna interface
3. 5G Sub-6G antenna interface
4. 2.4G antenna interface
5. 10/100/1000Base-T(X) LAN port
6. Terminal block for power input
7. Grounding screw
8. 10/100/1000Base-T(X) PoE WAN port (PoE input)
9. SIM card slot (SIM1, SIM2)
10. Reset button
11. Running indicator (RUN)
12. WLAN indicator (WLAN)
13. 5G Indicator (5G)

14. Gigabit WAN indicator (WAN)
15. Gigabit LAN indicator (LAN)
16. 5G signal strength indicator（ ）
17. Breather valve

【Mounting Dimension】

Unit: mm

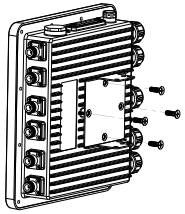


Notice Before Mounting:

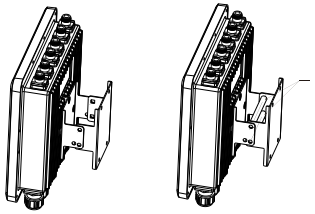
- Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

【Pole-mounted Device Mounting】

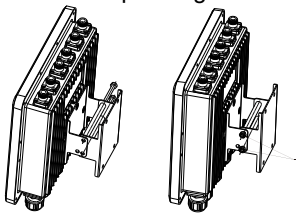
Step 1 Use 4 M6 screws to install the clamp board as shown in the figure below on the device backboard.



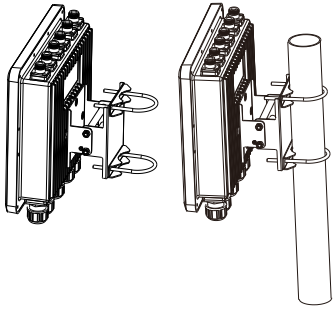
Step 2 Align the other clamp board with the hole center line of the installed clamp board, then place the support pipe to align the hole center of the two clamp boards. When the two clamps are docking, it can choose 15° or 90° installation angle.



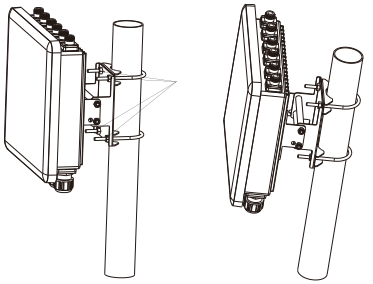
Step 3 Pass the M6 long screw through the hole where the clamp boards are docked and the support pipe, and tighten the corresponding M6 nut.



Step 4 Install U-shaped derrick screws and derrick teeth on the clamp board, and put the derrick with a diameter of Φ40 mm - Φ 50 mm in an U-shaped slot, as shown in the figure below.



Step 5 Adjust device position and tighten the derrick nut to fix the position of the device on the derrick. Installation ends.



【Pole-mounted Device Disassembling】

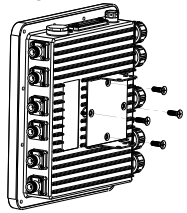
Step 1 Device power off.

Step 2 Stabilize the device, unscrew the U-shaped derrick nut and take out the U-shaped derrick screw.

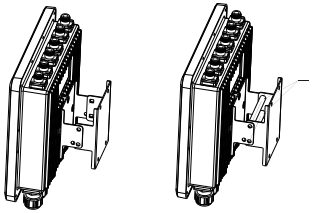
Step 3 Take out the device, disassembling ends.

【Wall Mounting】

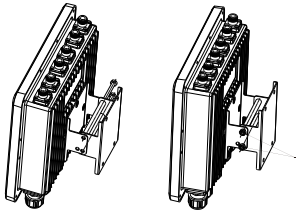
Step 1 Use 4 M6 screws to install the clamp board as shown in the figure below on the device backboard.



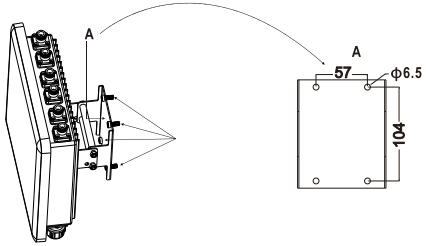
Step 2 Align the other clamp board with the hole center line of the installed clamp board, then place the support pipe to align the hole center of the two clamp boards. When the two clamps are docking, it can choose 15° or 90° installation angle.



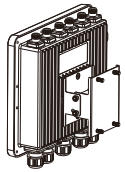
Step 3 Pass the M6 long screw through the hole where the clamp boards are docked and the support pipe, and tighten the corresponding M6 nut.



Step 4 Pass the M6 screw through the location hole of the clamp board. The size of location hole of the clamp board is as shown below.



Step 5 Install the device on the wall and tighten the screw. Installation ends.



【Wall-mounted Device Disassembling】

Step 1 Power off the device.

Step 2 Hold the device steadily and screw out the screw in the wall.

Step 3 Take out the device, disassembling ends.

Notice before power on:

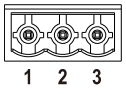
- Power ON operation: First insert the power supply terminal block into the device power supply interface, then plug the power supply plug contact and power on.
- Power OFF operation: First, remove the power plug, then remove the wiring section of terminal block. Please pay attention to the above operation sequence.

【Power Supply Connection】

➢ **PoE power supply**

The WAN port of this device supports 48VDC PoE power receiving, which conforms to IEEE802.3af/at standard.

➢ **12~48VDC power supply**



This device provides 1 DC power input which is 3-pin 5.08mm pitch terminal block with waterproof plug, the power supply supports non-polarity. Power supply range: 12～48VDC. The pin definitions of power supply are shown as follows:

Pin	1	2	3
Definition	V-	FG	V+

【Mounting SIM Card】

This of device supports 1 Micro SIM card slot or 1 Nano SIM card slot, provides 2 SIM card slots for redundant backup.

Notice:

If the SIM card needs to be changed, the device should be power off first in case of damaging the card.

【Setting Reboot/ Restore Factory Setting Button】



This device provides 1 reset button, press the button for 1-2S then release it to reboot the device; press the button for 5S then release it to restore factory defaults.

【Checking LED Indicator】

This device provides LED indicators to monitor the device working status with a comprehensive simplified troubleshooting; the detailed status of each LED is described in the table as below:

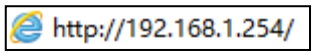
LED	Indicate	Description
RUN	ON	The device is powered on or the device is abnormal.
	Blinking	The device is running normally
	OFF	The device is powered off or the device is abnormal.
WLAN	ON	Wireless WiFi network is enabled
	Blinking	Wireless WiFi is in an active network status
	OFF	Wireless WiFi network is running abnormally or turned off
5G	Blinking	5G module is operating normally
	OFF	5G module isn't operating
WAN	ON	WAN port has established valid network connection
	Blinking	WAN port is in network active status
	OFF	WAN port hasn't established valid network connection
LAN	ON	LAN port has established valid network connection
	Blinking	LAN port is in network active status
	OFF	LAN port hasn't established a valid network connection
	○ ○ ○	All indicators are off, which means 5G/4G signal at the opposite end is weak or no signal
	☼ ○ ○	One indicator is on. It means 5G/4G signal of the opposite end is weak
	☼ ☼ ○	Two indicators are on, which means 5G/4G signal at the opposite end is normal
	☼ ☼ ☼	All indicators are on, which means 5G/4G signal at the opposite end is strong

【Logging in to WEB Interface】

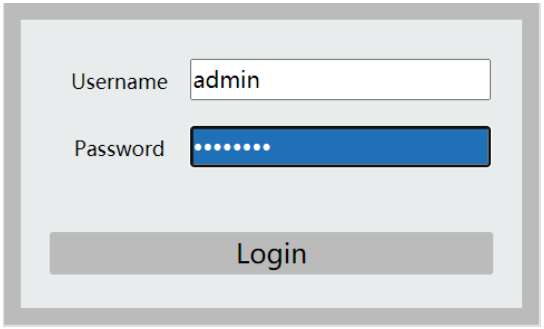
This device supports WEB management and configuration. Computer can access LAN port of the device via Ethernet interface. The way of logging in to device's configuration interface via IE browser is shown as below:

Step 1 Configure the IP addresses of computer and the device's LAN port to the same network segment, and the network between them can be mutually accessed

Step 2 Enter device's IP address in the address bar of the computer browser.



Step 3 Enter device's username and password in the login window as shown below.



Step 4 Click "Login" button to login to the WEB interface of the device.

Note:

- The default IP address of the device's LAN port is "192.168.1.254".
- The default user name and password of the device are "admin".
- If the user name or password is lost, user can restore it to factory settings via restoring factory setting button; all modified configurations will be cleared after restoring to factory settings, so please backup configuration file in advance.
- Please refer to user manual for specific configuration method of logging in to WEB interface and other configurations about network management function.

【Specification】

Panel	
WAN port	1 10/100/1000Base-T(X) RJ45 port, support PoE 48VDC input power supply
LAN port	1 10/100/1000Base-T(X) RJ45 port
Antenna	• 2 2.4G N-K type (Female) ports • 2 5.8G N-K type (Female) ports • 4 5G Sub-6G N-K type (Female) ports
SIM card slot	1 Micro SIM card slot and 1 Nano SIM card slot
Indicator	Running status indicator, WLAN indicator, 5G indicator, WLAN indicator, LAN indicator, 5G signal strength indicator
WiFi Transmission Rate	
802.11n	6.5~300Mbps
802.11b	11/5.5/2/1Mbps
802.11g/a	54/48/36/24/18/12/9/6Mbps
802.11ac	65Mbps~867Mbps
WiFi Radio Frequency	
Channel	802.11b/g/n:2.412GHz~2.4835GHz 802.11ac/n/a:5.18GHz-5.825GHz
RF power output	20dBm
Modulation mode	DBPSK, DQPSK, CCK, OFDM, 16-QAM, 64-QAM
WiFi Receiving Sensitivity	
802.11n_HT40	-82dBm@MCS0、-64dBm@MCS7
802.11n_HT20	-85dBm@MCS0、-67dBm@MCS7
802.11g/a	-91dBm@6Mbps、-72dBm@54Mbps
802.11b	-93dBm@1Mbps、-87dBm@11Mbps
802.11ac	-84dBm@MCS0、-59dBm@MCS9
WiFi Transmitting Power	
802.11n_HT40	20dBm@MCS0、20dBm@MCS7
802.11n_HT20	20dBm@MCS0、20dBm@MCS7
802.11g/a	20dBm@6Mbps、20dBm@54Mbps
802.11b	20dBm@1Mbps、20dBm@11Mbps
802.11ac	20dBm@MCS0、20dBm@MCS9
5G Operating Frequency Band	
5G NR	n1/n2/n3/n5/n7/n8/n12/n20/n28/n38/n40/n41/n48/n66/n71/n77/n78/n79
4G LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71
4G LTE-TDD	B34/B38/39/B40/B41/B42/B48
3G WCDMA	B1/B2/B3/B4/B5/B6/B8/B19
5G Bandwidth (downstream, upstream)	
5G SA	DL 2.1Gbps;UL 900Mbps
5G NSA	DL 2.5Gbps;UL 650Mbps
LTE	DL 1Gbps;UL 200Mbps
WCDMA	DL 42Mbps;UL 5.76Mbps
Power Supply	
Input power supply	• WAN port: supports PoE 48VDC power receiving, which conforms to IEEE802.3af/at standard • Power supply terminal: 12~48VDC, support non-polarity, using 3-pin 5.08mm pitch terminal with waterproof plug
Power Consumption	
No-load	5.5W
Full-load	15.9W
Working Environment	
Working temperature	-40~75℃
Storage temperature	-40~85℃
Working humidity	5%～95%(no condensation)
Protection grade	IP68 (metal shell)