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Make network communication more reliable

ICPE5000-2A-5GT-2E-LV
Industrial Grade 5G Wireless Router
Quick Installation Manual

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【Package Checklist】

Please check the integrity of package and accessories while first using the switch.

1. One 5G router
2. 4 5G rod antennas with suction cups
3. 2 WIFI antennas
4. Certificate of conformity

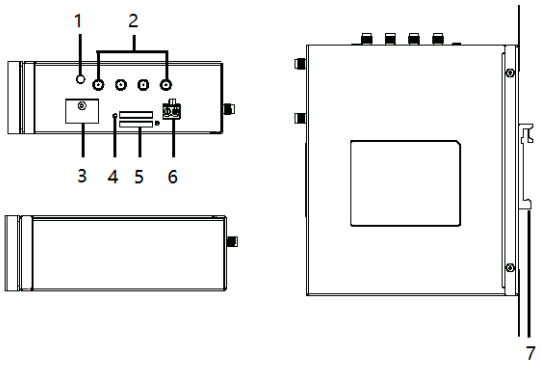
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

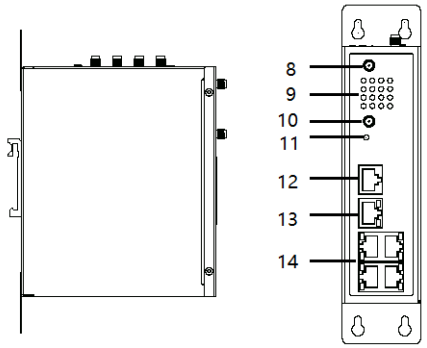
This products is a high-performance, cost-effective guide rail/wall mounted industrial 5G router. Model : ICPE5000-2A-5GT-2E-LV (2 WIFI antenna interfaces+4 5G antenna interfaces+1 Gigabit WAN port+4 Gigabit LAN ports+1 Console port).

【Panel Design】

- **Top view, bottom view, and main view**



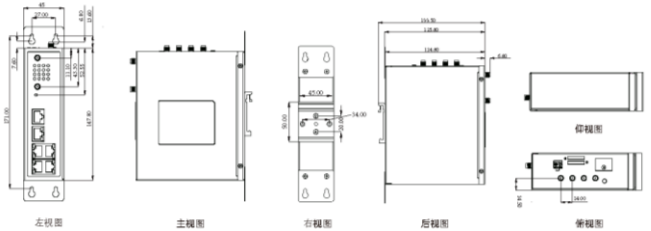
- **Rear and side views**



1. Grounding screw
2. 5G antenna main interface
3. TF card slot
4. SIM card hole
5. SIM card slot
6. Power input wiring terminals
7. DIN-Rail guide rail
8. WiFi-2.4 antenna interface
9. Indicator light group
10. WiFi-5.8 antenna interface
11. Reset button
12. CONSOLE port
13. WAN 10/100/1000M Ethernet port
14. LAN 10/100/1000M Ethernet port

【Mounting Dimension】

Unit: mm

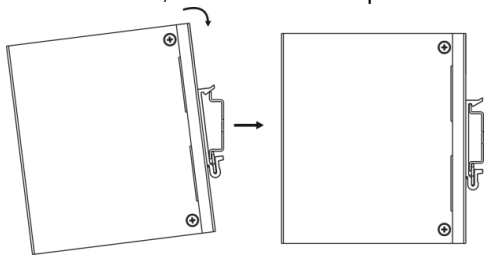


Note:

- Do not place or install the device near water sources or damp places, keep the relative humidity around the device within the range of 5% to 95% and without condensation.
- Before powering on, it is necessary to confirm the power specifications supported by the device to prevent damage to the device due to high voltage.
- The surface temperature of the device after operation is high, please do not touch it directly to avoid burns.

【Rack-mounting】

Adopting a 35mm standard DIN rail installation, suitable for most industrial sites, the installation steps are as follows:



Step 1 Check if the built-in DIN-Rail rail connection seat of

the device is securely installed.

Step 2 Insert the lower part of the DIN rail connection seat, which is the side with spring support, into the DIN rail, and then insert the upper part of the DIN rail connection seat into the DIN rail.

Tip:

Insert a small amount into the lower part, lift upwards slightly, and insert into the upper part.

Step 3 Check and confirm that the product is reliably installed on the DIN rail, and the installation is complete.

【Disassembling Device】

Step 1 Power outage of equipment.

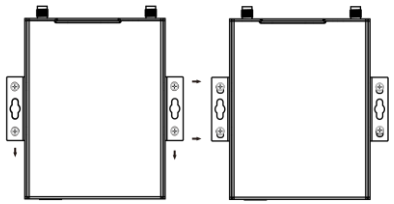
Step 2 After gently lifting the device upwards, first remove the upper part of the DIN rail connection seat, and then remove the lower part of the DIN rail connection seat to complete the disassembly.

【Installing Wall Mounted Equipment】

Step 1 On the wall where the equipment is installed, stick the equipment to the wall as a reference or refer to the installation dimensions, and mark the positions of the four screws.

Step 2 Attach the device to the marked wall, align the screws with the marked position, and secure the screws with a certain gap.

Step 3 Slide the device down onto the hanging screw, then tighten the screw to complete the installation.



【Dismantling wall mounted equipment】

Step 1 Power outage of equipment.

Step 2 Stabilize the equipment, loosen and remove the screws on the wall.

Step 3 Remove the device and the disassembly is complete.

Attention before power on:

- Power on operation: First, insert the power terminal of the power cord into the power interface of the device, and then plug in the power plug to power on.
- Power off operation: First unplug the power plug, and then remove the terminal wiring part. Please pay attention to the above operation sequence.

【Power Supply Connection】



This device provides a terminal power socket with built-in power reverse protection and overvoltage protection.

Power supply range: DC12-48V

【SIM/UIM card slot】

This device provides 2 SIM/UIM card slots, standard drawer interface, supports 1.8V/3V SIM/UIM cards, and comes with built-in 15KV ESD protection

【 CONSOLE port 】

This device provides 1 RS232, RJ45 interface for debugging

【Connecting Antennas】

This device provides 6 external antenna interfaces (standard SMA female, characteristic impedance 50 ohms), 4 5G antenna interfaces, and 2 WIFI antenna interfaces

【Set RESET button】

Provide one RESET button for device restart and factory reset.

【Power Supply Connection】

This device provides LED indicator lights to monitor the working status of the device, comprehensively simplifying troubleshooting. The detailed status of each indicator light is shown in the table below:

LED	indicate	Status Description
SYS	Chang Liang	Normal operation of equipment
	Extinction	Equipment not powered on or abnormal
PWR	Green light always on	The power connection is running normally
	Extinction	Power supply not connected or not functioning properly
VPN	Green light always on	VPN connection successful
	Extinction	VPN not connected or not running properly
WiFi-2.4	Green light always on	2.4G WiFi function enabled
	Extinction	2.4G WiFi function not enabled
NET	Blue light always on	Connecting to the Internet
	Extinction	No internet connection
SIM1	Green light always on	Insert SIM card into SIM1 slot
	Extinction	SIM card not inserted into SIM1 slot
SIM2	Green light always	Insert SIM card into SIM2 slot

LED	indicate	Status Description
SYS	Chang Liang	Normal operation of equipment
	Extinction	Equipment not powered on or abnormal
PWR	Green light always on	The power connection is running normally
	Extinction	Power supply not connected or not functioning properly
	on	
	Extinction	SIM card not inserted into SIM2 slot
WiFi-5.8	Green light always on	5.8G WiFi function enabled
	Extinction	5.8G WiFi function not enabled
USER1-USER4	/	Support user customization
GPS	Green light always on	GPS function enabled
	Extinction	GPS function not enabled
Signal	Always Bright Three	Strong mobile signal
	Changliang Two	Mobile signal moderate
	Always Bright Three	Weak mobile signal
	Extinction	Mobile model malfunction

【Power Supply Connection】

The device supports WEB management and configuration, and the computer can access the device through an Ethernet interface. The configuration interface for logging into the device through Chrome browser is as follows.

Step 1 Configure the IP addresses of computers and devices to be in the same network segment, and ensure that the networks between computers and devices can access each other.

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

Step 3 http://192.168.1.1

Step 4 Enter the username and password of the device in the login window, as shown in the following figure.



Step 5 Click the "OK" button to log in to the device's web interface.

Note:

- The default IP address of the device is 192.168.1.1, and the subnet mask is 255.255.255.0.
- The default username and password for the device are "admin".
- If the PC cannot log in to the WEB by automatically obtaining the IP address, it is recommended that the PC set a static IP in the same network segment as the device before logging in to the WEB.
- Please refer to the user manual for specific configuration methods for logging into the WEB interface and instructions for configuring other network management functions.

【Specification】

panel	
Electric port	1 GE WAN 10/100/1000Mbit/s adaptive, built-in 1.5KV electromagnetic isolation protection, configurable as LAN; 4-way GE LAN 10/100/1000Mbit/s adaptive, built-in 1.5KV electromagnetic isolation protection
Console port	1 * RS232, RJ45 interface, used for debugging
SIM/UIM card slot	Standard drawer type interface, 2-way drawer type card holder, supporting 1.8V/3V SIM/UIM cards, built-in 15KV ESD protection
Antenna interface	6 external antenna interfaces (standard SMA female, characteristic impedance 50 ohms), 4 5G antenna interfaces, and 2 WIFI antenna interfaces
Indicator light	Power indicator light, system indicator light, VPN indicator light, network online indicator light, SIM card 1 indicator light, SIM card 2 indicator light, user indicator light, 2.4GWIFI status indicator light, 5.8GWIFI status indicator light, GPS signal indicator light, level 3 signal indicator light
Hardware specifications	
processor	4-way ARM Cortex-A7 processor
operating system	Linux system
Maximum power consumption	12W
Idle working current	600ma@12vdc

Peak operating current	1a@12vdc
Source	
Input power supply	Power supply range: DC12-48V
Access terminal	Terminal power socket with built-in power reverse protection and overvoltage protection
Work Environment	
working temperature	-30-75 ℃
Storage temperature	-40-85 ℃
Working humidity	5% to 95% (without condensation)
Protection level	IP40 (metal shell)