



eCube-CP-AU
eCube-CG-AU

Quick Guide


Chengdu TD-Tech Co., Ltd.

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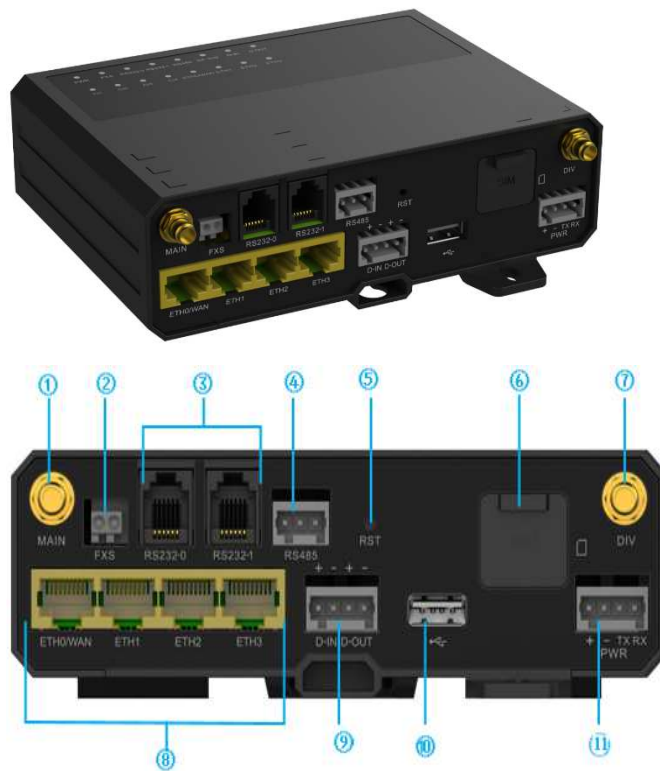


1 Packing list

Main equipment

Quantity	1
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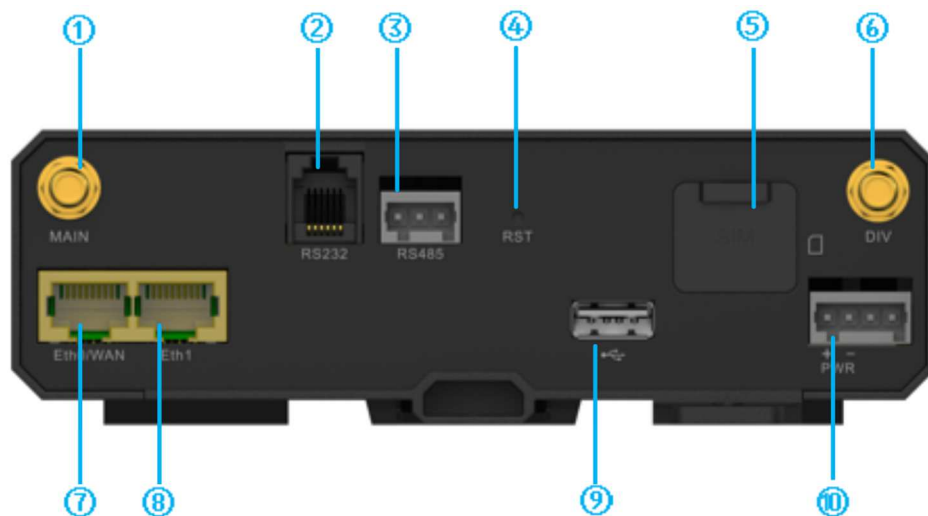
2 Appearance



eCube-CP-AU

No.	Description
1	Main 4G antenna port
2	FXS port
3	Two RS232 ports
4	RS485 port
5	Reset button

6	SIM card slot
7	Auxiliary 4G antenna port
8	ETH port (ETH0 : WAN / LAN ETH1 ~ ETH3 : LAN)
9	DI/DO port
10	USB Host port
11	Power port with RS232



eCube-CG-AU

No.	Description
1	Main 4G antenna port
2	RS232 port
3	RS485 port
4	Reset button
5	SIM card slot
6	Auxiliary antenna 4G antenna port
7	ETH0 port (WAN/LAN interface)
8	ETH1 port (LAN port)
9	USB Host port
10	Power port

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Specifications

Name	Data Terminal	Model	eCube-CP-AU
the family models	eCube-CG-AU		
Indicator	Value	Indicator	Value
Sizes	150mm×105mm×48mm	Operating temperature	- 10° C ~+ 50° C
Weight	340 ± 30 g	Storage temperature	- 40° C ~+ 85° C
Voltage	DC 9V~DC36V	Humidity requirements	RH5% ~ RH95%
Power	< 8 W	SIM card	2FF SIM card x 1
operating bands	LTE: Band2 Uplink / Downlink:1850~1910MHz / 1930~1990MHz Band4 Uplink / Downlink:1710~1755MHz / 2110~2155MHz Band7 Uplink / Downlink:2500~2570MHz / 2620~2690MHz WCDMA: Band2 Uplink / Downlink: 1850~1910MHz / 1930~1990MHz Band5 Uplink / Downlink:824~849MHz / 869~894MHz GSM:GSM1900 Uplink / Downlink:1850~1910MHz / 1930~1990MHz GSM850 Uplink / Downlink: 824~849MHz / 869~894MHz BT: BLE 1Mbps, 2Mbps		
Maximum Tx power	LTE: 23 dBm±2dB WCDMA: 23 dBm±2dB GSM: 33dBm±2dB BT: <10 dBm		

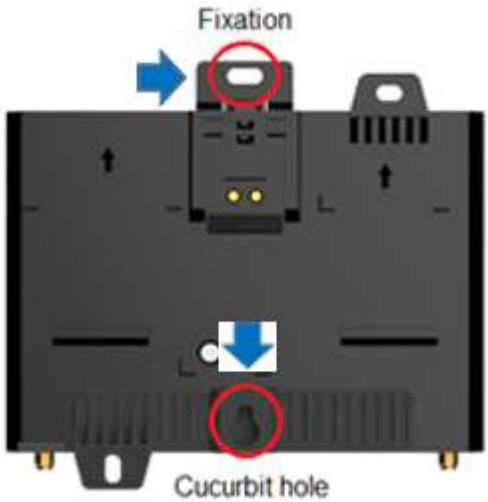
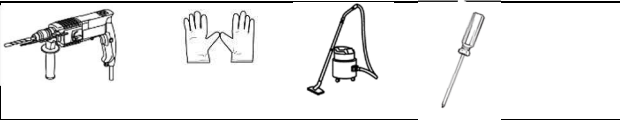
Hardware	eCube-CP-V4.2 eCube-CG-V4.2
Software	V100R001C00

4 Hardware Installation

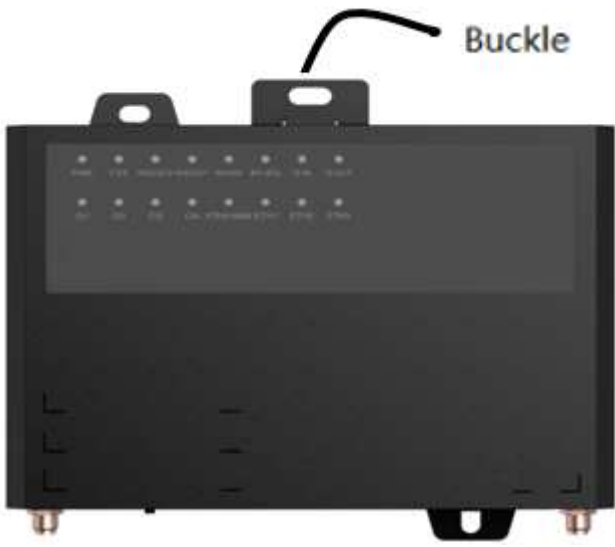
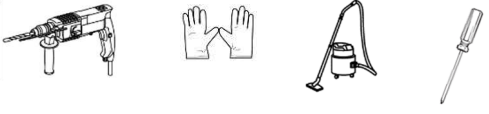
4.1 Install Warning

- This device must be professionally installed, this should be noted on grantee.
- To maintain compliance, only the antenna types that have been tested shall be used, which listed in “Remote Antenna Part Numbers” section on page .
- This device requires a significant technology engineering expertise towards understanding of the tools and relevant technology, not readily available to average consumer. Only a person professionally trained in the technology is competent.
- This device is not directly marketed or sold to general public.

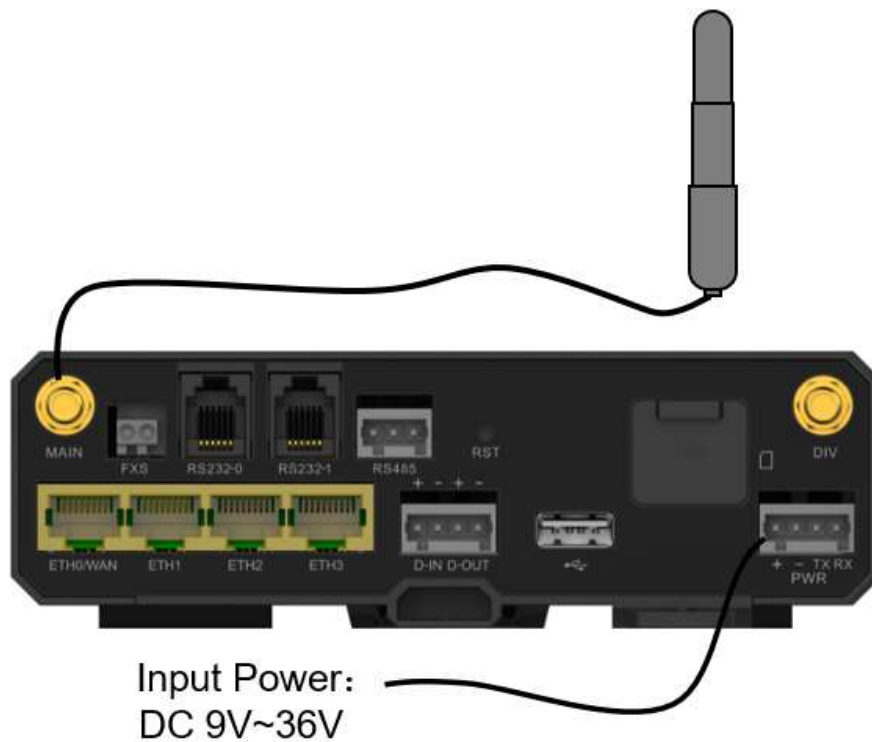
4.2 Wall-mounted (standard)

	<div></div> <div>ST4.2 tapping screw x 2</div> <div>Drill two mounting holes on the wall according to the distance shown in the left figure, and insert plastic plugs into the holes.</div> <div>Screw one tapping screw into the pre-installation hole and leave a 4 mm (0.08 in.).</div> <div>Align the cucurbit hole at the bottom of the device with the pre-installation hole, hold the device bottom, and secure the device to the wall using another tapping screw.</div>
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4.3 Rail-mounted (optional)

	
	<p>ST4.2 tapping screw x 2</p>
	<p>Use a flat-head screwdriver to press the metal spring on the DIN mounting kit inwards and pull out the buckle.</p> <p>Align the DIN mounting kit with the DIN guide rail, and press the buckle to secure the device to the DIN guide rail.</p>

4.4 Installing the Power Supply and Antenna



4.5 SIM Card Positions

Install the SIM card after removing the screws and removing the rear cover. The following figure shows the position.



No.	Description
1	SIM card slot

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Software functions and indicators

5.1 Software Functions

- Supports peripheral interfaces such as buttons, indicators, and RS485, RS232, DIDO, USB, BLE.
- Supports FXS voice port.
- Supports 4G LTE wireless network module (eCube-CG-WAN excepted.) .
- Supports 100M Ethernet ports.
- Supports secure boot.
- Supports the OP-TEE secure development environment.
- The Debian10 operating system is preinstalled, and the kernel version is 4.19.

5.2 Indicator description

Software Version	V100R001C00
Indicators	Description
PWR	<ul style="list-style-type: none">• Off: The board is not powered on.• On: The device is powered on.
FXS	<ul style="list-style-type: none">• Fast blinking green: Indicates that the FXS line is ringing.• Slow blinking green: Indicates that the FXS line is in the offhook state.• Off: Indicates that the FXS line is on-hook.
RS232	User-defined indicator.
RS485	User-defined indicator.
RF-SIG	User-defined indicator.

D-IN User-defined indicator.

D-OUT	User-defined indicator.
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CI(CI1 ~ CI4) User-defined indicator.

ETH (ETH0/WAN ~ ETH3)	<ul style="list-style-type: none">• Steady green: Indicates that the link corresponding to the number is connected.• Blinking green: Indicates that the data is being transmitted or received on the link corresponding to the number.• Off: Indicates that the link corresponding to the number is not connected.
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Precautions

This section contains important information pertaining to the operating instructions of your device. It also contains information about how to use the device safely. Read this information carefully before using your device.

Wireless device

Do not use this device in places where wireless devices are prohibited. Otherwise, other electronic devices may be interfered or other hazards may occur.

Impact on medical equipment

Radio waves generated by the equipment may affect the normal operation of implantable medical equipment or personal medical equipment, such as pacemakers, cochlea implants, hearing aids, etc. If you are using these medical devices, consult their manufacturer for restrictions on the use of this device.

Explosive and flammable area

- Do not use this device in explosive places such as gas stations, oil depots, and chemical plants. Observe all graphic or text instructions in these places. If the equipment is used in these explosive places, it may cause explosion or fire.
- Do not store or transport the device in the same box with flammable liquids, gases, or explosives.

Safety of Children

Comply with all precautions with regard to children's safety. Letting the child play with your device or its accessories, which may include parts that can be detached from the device, may be dangerous, as it may present a choking hazard. Ensure that children are kept away from the device and accessories.

Spare Parts Requirements

Use only the original assembly provided by the equipment manufacturer. If any non-original component is used, the device may be faulty, invalid, or even cause a fire, which may violate the warranty clauses of the device and related regulations of the country on communications terminals and cause personal injury.

Operating Environment

- The power supply voltage of the device must meet the input voltage requirements of the device.
- Keep the device away from electrical appliances with strong magnetic or electric fields, such as transformers, microwave ovens, and refrigerators.
- Avoid using the device indoors in dusty, damp, or dirty areas to prolong the service life of the device.
- Keep the device stable to avoid personal injury or device damage.
- Keep the device away from heat sources, flammable objects, or exposed fire sources.
- Do not install the device in an area with acidic, corrosive, or other corrosive gases.
- Place the device or its accessories in a well-ventilated environment. Do not wrap, seal, or cover the device with towels or other objects. Do not place the device in a closed environment, such as a box or box. Otherwise, the device may be damaged due to poor heat dissipation.

- Do not place any objects (such as candles and water containers) on the device to prevent foreign objects or liquids from entering the device. If foreign objects or liquids enter the device, stop using the device, power off the device, remove all cables, and contact the carrier.
- After the device runs for a period of time, the device temperature increases. If the device temperature is too high, do not touch the device for a long time. Otherwise, the device may be burnt at low temperature, causing skin redness or pigmentation.
- Do not touch the connector of the cable when using the device.
- Do not scratch or abrade the device shell. Otherwise, the peeling paint may cause human allergy or device exceptions, such as short circuits caused by falling into the host.

Important:

- Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
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NOTE:

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
- This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
- Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - —Reorient or relocate the receiving antenna.
 - —Increase the separation between the equipment and receiver.
 - —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - —Consult the dealer or an experienced radio/TV technician for help.
- This products comply with FCC radiation exposure limits set forth for an uncontrolled environment. It is recommended that equipment should be installed and operated with minimum distance of 30cm between the radiator and your body.

FCC Nameplate Warning:

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.