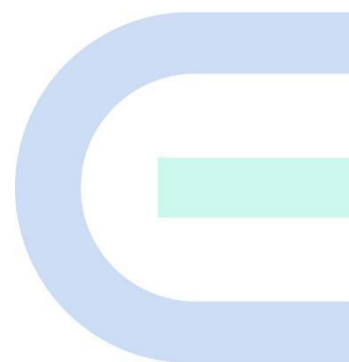


Ruijie Reyee RG-RAP72Pro-OD Access Point

Installation Guide



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Preface

Audience

This document is intended for:

- Network engineers
- Technical support and servicing engineers
- Network administrators

Technical Support

- Official Website of Ruijie Reyee: <https://reyee.ruijie.com>
- Technical Support Website: <https://reyee.ruijie.com/en-global/support>
- Case Portal: <https://www.ruijienetworks.com/support/caseportal>
- Community: <https://community.ruijienetworks.com>
- Technical Support Email: service_rj@ruijienetworks.com
- Online Robot/Live Chat: <https://reyee.ruijie.com/en-global/rita>

Conventions

1. GUI Symbols

Interface symbol	Description	Example
Boldface	1. Button names 2. Window names, tab name, field name and menu items 3. Link	1. Click OK . 2. Select Config Wizard . 3. Click the Download File link.
>	Multi-level menus items	Select System > Time .

2. Signs

The signs used in this document are described as follows:

 **Danger**
An alert that calls attention to safety instruction that if not understood or followed can result in personal injury.

 **Warning**
An alert that calls attention to important rules and information that if not understood or followed can result in data loss or equipment damage.

 **Caution**
An alert that calls attention to essential information that if not understood or followed can result in function failure or performance degradation.

 Note

An alert that contains additional or supplementary information that if not understood or followed will not lead to serious consequences.

 Specification

An alert that contains a description of product or version support.

3. Note

This manual provides installation steps, troubleshooting, technical specifications, and usage guidelines for cables and connectors. It is intended for users who want to understand the above and have extensive experience in network deployment and management, and assume that users are familiar with related terms and concepts.

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1 Overview

1.1 About the RG-RAP72Pro-OD

The RG-RAP72Pro-OD 5040 Mbps dual-band Gigabit wireless access point (AP) is launched by Ruijie Reyee for Wi-Fi coverage scenarios. Supporting the IEEE 802.11be, IEEE 802.11ax, IEEE 802.11ac Wave 2/Wave 1, and IEEE 802.11a/b/g/n protocols, as well as dual-stream Multiple-Input Multiple-Output (MU-MIMO), Multi-Link Operation (MLO), and other cutting-edge wireless communication technologies, the RG-RAP72Pro-OD can operate simultaneously on 2.4 GHz and 5 GHz frequency bands, delivering a maximum data rate of up to 688 Mbps in the 2.4 GHz band and 4323 Mbps in the 5 GHz band, with a combined rate of up to 5011 Mbps. Additionally, it provides a 2.5GE port supporting IEEE 802.3at (PoE+) power supply.

The RG-RAP72Pro-OD is equipped with an IP65-rated casing, making it ideal for deployment in challenging environments. Its compact design features a concealed Ethernet port, ensuring both functionality and visual harmony without altering the original layout.

1.2 Package Contents

Table 1-1 Package Contents

No.	Item	Quantity
1	RG-RAP72Pro-OD access point	1
2	Mounting bracket	1
3	Metal hose clamp	1
5	Phillips pan head screws (ST2.9 x 20 PA)	2
6	Wall anchors [$\varnothing$ 6 mm x 24 mm ($\varnothing$ 0.24 in. x 0.95 in.)]	2
7	Cable tie [(7.6 mm x 300 mm (0.30 in. x 11.81 in.)]	1
8	User Manual	1
9	Warranty Card	1

Note

The package contents generally contain the preceding items. The actual delivery is subject to the order contract. Please check your goods carefully against the order contract. If you have any questions, please contact the distributor.

1.3 Product Appearance

1.3.1 Appearance

Figure 1-2 Front Panel



1.3.2 Ports and Buttons

Figure 1-3 Rear Panel.

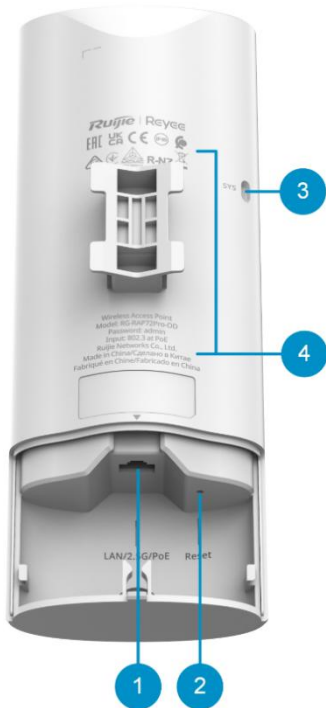


Table 1-2 Components on the Rear Panel

No.	Component	Description
1	LAN/2.5G/PoE port	1 x 10/100/1000/2500BASE-T port, PoE-capable.
2	Reset button	Press and hold for less than 2 seconds: Restart the device. Press and hold for more than 5 seconds: Restore the device to factory settings.
4	Nameplate	The nameplate is located on the back of the device.

Table 1-3 LED

No.	Status	Description
3	Off	The device is not receiving power.
	Slow blinking blue (once per two seconds)	The device is not connected to the Internet.
	Fast blinking blue	The device is starting up.

No.	Status	Description
	Blinking blue twice repeatedly	The device is resetting. The device is upgrading. The device is recovering. Caution Do not power off the device when the LED is in this state.
	Solid blue	The device is operating normally, and no alarm is generated.

1.4 Technical Specifications

Table 1-4 Technical Specifications

Radio Design	Dual-band, 2.4 GHz two streams, 5 GHz three streams
Wi-Fi Standards	IEEE 802.11be, IEEE 802.11ax, IEEE 802.11ac Wave 1/Wave 2, and IEEE 802.11a/b/g/n
Operating Frequency Bands	IEEE 802.11b/g/n/ax/be: 2.4 GHz to 2.4835 GHz IEEE 802.11a/n/ac/ax/be: 5.150 GHz to 5.350 GHz, 5.470 GHz to 5.7250 GHz, 5.725 GHz to 5.850 GHz  Note The operating band varies in different countries.
Antenna Type	Built-in directional antenna (2.4 GHz: 3.62 dBi; 5 GHz: 6.28 dBi)
Beam Angle	Omni-directional
Spatial Streams	2.4 GHz: 2 x 2 MIMO 5 GHz: 3 x 3 MIMO
Data Rate	2.4 GHz: 688 Mbps 5 GHz: 4323 Mbps Combined: 5011 Mbps
Modulation	OFDM: BPSK@6/9 Mbps, QPSK@12/18 Mbps, 16QAM@24 Mbps, 64QAM@48/54 Mbps DSSS: DBPSK@1 Mbps, DQPSK@2 Mbps, CCK@5.5/11 Mbps MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM, OFDMA
Receiver Sensitivity	11b: -96 dBm (1 Mbps), -93 dBm (5 Mbps), -89 dBm (11 Mbps) 11a/g: -91 dBm (6 Mbps), -85 dBm (24 Mbps), -80 dBm (36 Mbps), -74 dBm (54 Mbps)

	11n: -90 dBm (MCS0), -70 dBm (MCS7), -89 dBm (MCS8), -68 dBm (MCS15) 11ac: 20MHz: -88 dBm (MCS0), -63 dBm (MCS9) 11ac: 40MHz: -85 dBm (MCS0), -60 dBm (MCS9) 11ac: 80MHz: -85 dBm (MCS0), -60 dBm (MCS9) 11ax: 80MHz: -82 dBm (MCS0), -57 dBm (MCS9), -52 dBm (MCS11) 11ax: 160MHz: -75 dBm (MCS0), -55 dBm (MCS9), -50 dBm (MCS11) 11be: 20MHz: -88 dBm (MCS0), -56 dBm (MCS13) 11be: 40MHz: -85 dBm (MCS0), -53 dBm (MCS13) 11be: 80MHz: -85 dBm (MCS0), -50 dBm (MCS13) 11be: 160MHz: -82 dBm (MCS0), -47 dBm (MCS13)
Max. Transmit Power	Frequency bands using and the max EIRP.  Note The actual transmit power may vary in different countries and regions according to the rules and regulations. ● European Union & United Kingdom: ○ 2400 to 2483.5 MHz, EIRP ≤ 20 dBm ○ 5470 to 5725 MHz, EIRP ≤ 30 dBm ● United States: ○ 2400 to 2483.5 MHz, max output power ≤ 30 dBm & EIRP ≤ 36 dBm ○ 5150 to 5250 MHz, max output power ≤ 30 dBm & EIRP ≤ 36 dBm ○ 5250 to 5350 MHz, max output power ≤ 24 dBm & EIRP ≤ 30 dBm ○ 5470 to 5725 MHz, max output power ≤ 24 dBm & EIRP ≤ 30 dBm ○ 5725 to 5850 MHz, max output power ≤ 30 dBm & EIRP ≤ 36 dBm ● Myanmar: ○ 2400 to 2483.5 MHz, EIRP ≤ 23 dBm ○ 5725 to 5825 MHz, EIRP ≤ 30 dBm ● Thailand: ○ 2400 to 2483.5 MHz, EIRP ≤ 20 dBm ○ 5470 to 5725 MHz, EIRP ≤ 30 dBm ○ 5725 to 5825 MHz, EIRP ≤ 30 dBm ● Indonesia: ○ 2400 to 2483.5 MHz, EIRP ≤ 36 dBm ○ 5725 to 5825 MHz, EIRP ≤ 36 dBm ● Egypt: ○ 2400 to 2483.5 MHz, EIRP ≤ 20 dBm ○ 5150 to 5350 MHz, EIRP ≤ 23 dBm
Power Step	1 dBm

Dimensions (W x D x H)	239 mm x 90 mm x 46 mm (9.41 in. x 3.54 in. x 1.81 in.) (excluding the mounting bracket)
Net Weight	< 0.7 kg (1.54 lbs)
Service Ports	1 x 10/100/1000/2500BASE-T port, PoE-capable
Management Port	N/A
Status LED	1 x system LED (blue)
Power Supply Mode	Standard PoE power supply: IEEE 802.3at (PoE+)
Power Supply	IEEE 802.3 at PoE+ power supply
Max. Power Consumption	< 20 W
Bluetooth	Not supported
Environment	Operating temperature: –30°C to +65°C (–22°F to +149°F)
	Storage temperature: –40°C to +85°C (–40°F to +185°F)
	Operating humidity: 0% to 100% RH (non-condensing)
	Storage humidity: 0% to 100% RH (non-condensing)
Mounting	Wall-mount and pole-mount
	 Note The recommended mounting height ranges from 2.5 m (8.20 ft.) to 3 m (9.84 ft.).
Surge Protection	4 kV
Certification	CE, FCC, ISED, cTUVus
Mean Time Between Failures (MTBF)	> 400000 hours

1.5 Power Supply Technical Specifications

The RG-RAP72Pro-OD supports PoE power supply. When PoE power supply is used, ensure that the power source equipment (PSE) is at least IEEE 802.3at-compatible. You are advised to use an IEEE 802.3at-compliant PSE in order to optimize the device performance.

1.6 Cooling

The RG-RAP72Pro-OD adopts a fanless design. Therefore, a sufficient clearance must be maintained around the device for cooling.

2 Preparing for Installation

2.1 Safety Precautions



Note

- To prevent device damage and physical injury, please read the safety precautions carefully in this chapter.
 - The following safety precautions do not cover all possible hazardous situations.
-

2.1.1 General Safety Precautions

- Do not expose the AP to high temperature, dusts, or harmful gases.
- Do not install the AP in an inflammable or explosive environment.
- Keep the AP away from Electro-Magnetic Interference (EMI) sources such as large radar stations, radio stations, and substations.
- Do not subject the AP to unstable voltage, vibration, and noises.
- The installation site should be dry. Keep the AP at least 500 meters (1,640.41 ft.) away from the ocean and do not face it towards the sea breeze.
- The installation site should be free from water, including possible flooding, seepage, dripping, or condensation. The installation site should be selected according to network planning and communications equipment features, and considerations such as climate, hydrology, geology, earthquake, electrical power, and transportation.
- Ensure that the AP and the power distribution system are properly grounded.



Caution

Follow the installation instructions in the user manual to correctly install or remove the AP.

2.1.2 Handling Safety

- Avoid handling the AP frequently.
- Turn off all power supplies and unplug all power cables before you handle the AP.

2.1.3 Electrical Safety



Warning

- Improper or incorrect electrical operation can cause an accident such as fire or electric shock, thus causing severe even fatal damages to humans and devices.
 - Direct or indirect contact with a wet object (or your finger) on the high voltage and power line can be fatal.
-
- Observe local regulations and specifications when performing electrical operations. Relevant operators must be qualified.
 - Carefully check for any potential hazards in the working area such as damp/wet ground or floors.

- Find the location of the emergency power supply switch before installation. Cut off the power supply first in case of an accident.
- Be sure to make a careful check before shutting down the power supply.
- Keep the AP far away from grounding or lightning protection devices for power equipment.
- Keep the AP away from radio stations, radar stations, high-frequency high-current devices, and microwave ovens.

2.2 Installation Environment Requirements

For normal operation and prolonged service life of the access point, the installation site must meet the following requirements.

2.2.1 Bearing

Evaluate the weight of the device and its accessories, and ensure that the installation site (such as the wall or pole) can bear the weight.

2.2.2 Ventilation

The AP adopts natural cooling. Reserve a sufficient clearance around the AP to ensure proper ventilation.

2.2.3 Temperature and Humidity

To ensure the normal operation and service life of the AP, maintain appropriate temperature and humidity in the equipment room. Improper room temperature and humidity can cause damage to the AP.

- High relative humidity may affect insulation materials, resulting in poor insulation and even electrical leakage. Sometimes it may lead to changes in the mechanical properties of materials and corrosion of metal parts.
- Low relative humidity can dry and shrink insulation sheets and cause static electricity that can damage the circuitry.
- High temperatures greatly reduce device reliability and shorten service life.

Table 2-1 Temperature and Humidity Requirements

Temperature	Humidity
–30°C to +65°C (–22°F to +149°F)	0% to 100% RH (non-condensing)

2.2.4 EMI

- Keep the AP as far away from the grounding equipment of the power device and the lightning prevention equipment as possible.
- Keep the AP away from radio stations, radar stations, high-frequency high-current devices, and microwave ovens.

2.3 Tools

Table 2-2 Tools

Common Tools	Phillips screwdriver, hex wrench, cables, Ethernet cable, cage nut, diagonal plier, cable ties
Special Tools	ESD gloves, wire stripper, crimping plier, RJ45 crimping plier, wire cutter, and waterproof adhesive tape
Meters	Multimeter
Relevant Devices	PC, display, and keyboard

 Note

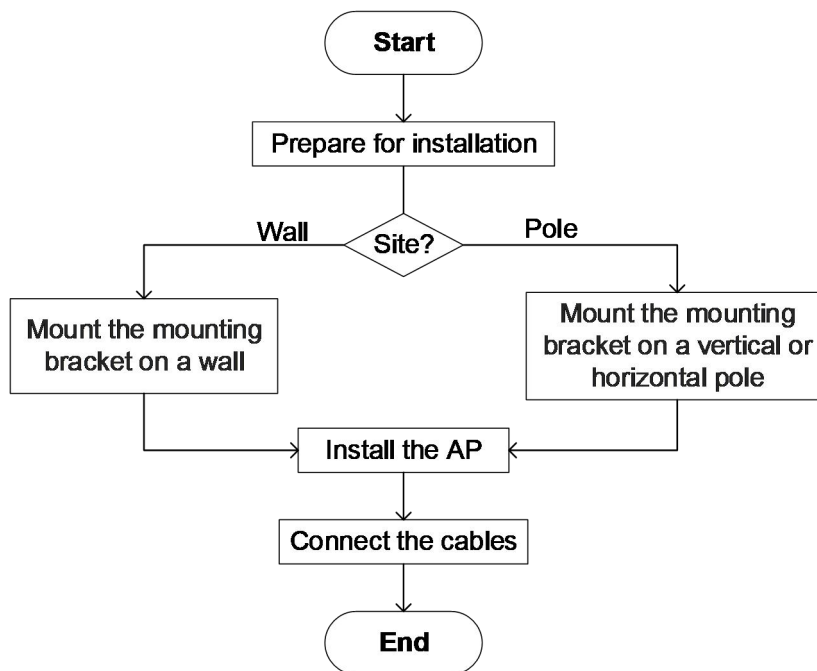
The RG-RAP72Pro-OD is delivered without a tool kit. The tool kit is customer-supplied.

3 Installing the AP

Caution

Before installing the device, make sure that you have carefully read the requirements described in Chapter 2.

3.1 Installation Flowchart



3.2 Before You Begin

Carefully plan and arrange the installation position, networking mode, power supply, and cabling before installation. Confirm the following requirements before installation:

- The installation site provides sufficient space for proper ventilation.
- The installation site meets the temperature and humidity requirements of the AP.
- The power supply and required current are available in the installation site.
- The selected power supply modules meet the system power requirements.
- The installation site meets the cabling requirements of the AP.
- The installation site meets the site requirements of the AP.
- The customized AP meets the client-specific requirements.

3.3 Safety Precautions During Installation

Please make sure that the installation site meets the requirements in [2.2 Installation Environment Requirements](#), and observe the following precautions:

- Do not power on the AP during installation.
- Install the AP in a well-ventilated location.
- Do not expose the AP to high temperature.
- Keep the AP away from high-voltage power cables.
- Do not expose the AP to a thunderstorm or strong electric field.
- Cut off the power supply before cleaning the AP.
- Do not open the enclosure when the AP is working.
- Secure the AP tightly.

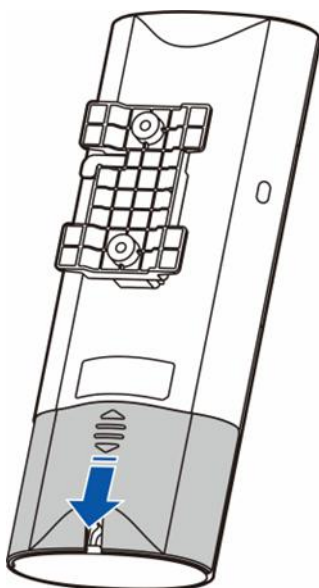
3.4 Installing the AP

Caution

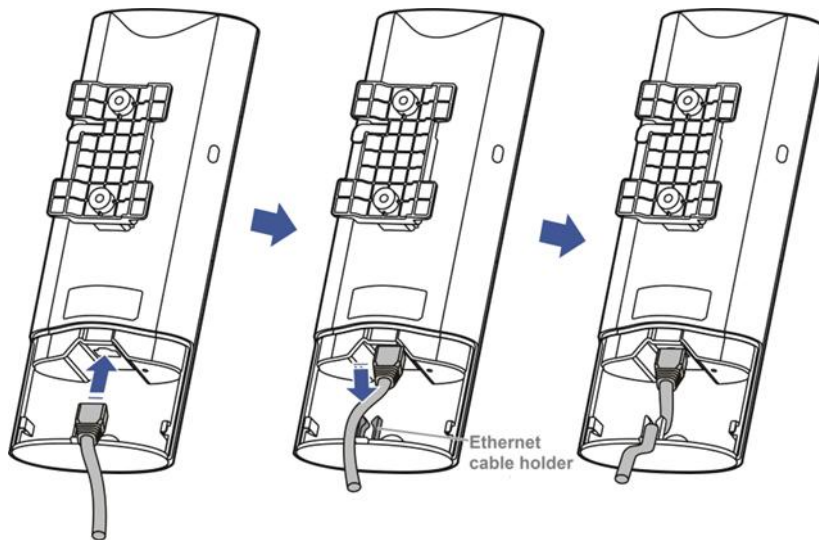
- Install the AP in a manner that maximizes the coverage area of the antenna.
 - The schematic diagram provided is for reference purposes only. The actual product should be installed based on its physical specifications and design.
-
- For basic coverage in open areas like store entrances, courtyards, and villa balconies, the AP is typically installed under the eaves.
 - The installation site should be dry. Keep the AP at least 500 meters (1,640.41 ft.) away from the ocean and do not face it towards the sea breeze.

3.4.1 Installing the AP

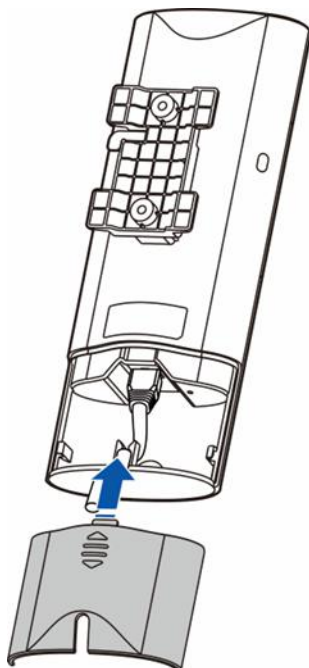
- (1) Remove the rear cover of the RG-RAP72Pro-OD.



- (2) Connect one end of the Ethernet cable to the LAN/2.5G/PoE port, and press the Ethernet cable into the Ethernet cable holder.



- (3) Install the rear cover.



3.5 Bundling Cables

3.5.1 Precautions

- The power cord and other cables should be neatly bundled.
- Ensure that the cables have natural bends or bends of large radius at the connectors.
- Do not bind twisted pair cables too tightly, as this may compromise their service life and transmission performance.

3.5.2 Bundling Steps

- (1) Bundle the drooping part of the cables and place the bundle as near the ports as possible.
- (2) Secure the cables in the cable management trough of the mounting bracket.
- (3) Route the cables under the device and run them in straight line.

3.6 Checklist After Installation

- (1) Checking the AP
 - Verify that the external power supply matches with the requirement of the AP.
 - Verify that the AP is securely fastened.
- (2) Checking Cable Connections
 - Verify that the UTP/STP cable matches with the port type.
 - Verify that the cables are properly bundled.
- (3) Checking Power Supply
 - Verify that the power cord is properly connected and meets safety requirements.
 - Verify that the AP works properly when powered by the power supply.

4 Debugging

4.1 Setting Up the Configuration Environment

Power on the AP using a standard PoE adapter.

- Verify that the power cord is properly connected and compliant with safety requirements.
- Connect the AP to the PC using an Ethernet cable.

4.2 Powering on the AP

4.2.1 Checklist Before Power-On

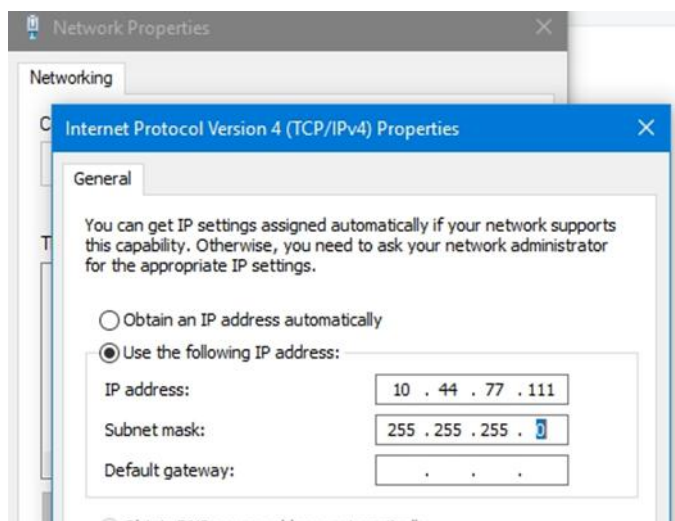
- The AP is properly grounded.
- The power cord is properly connected.
- The input voltage meets the requirement.

4.2.2 Checklist After Power-on

- Verify that there is system log printed on the terminal interface.
- Verify the LED status.

4.3 Logging in to the Web GUI

- (1) Power on the PC and configure local connection attributes on the PC. Set the IP address of the PC to 10.44.77.XXX (1 to 255, excluding 254).



- (2) Open a browser on the PC and enter 10.44.77.254 to log in to the web interface. The default password is admin for the first login. For security purposes, change the default password after login.

5 Monitoring and Maintenance

5.1 Monitoring

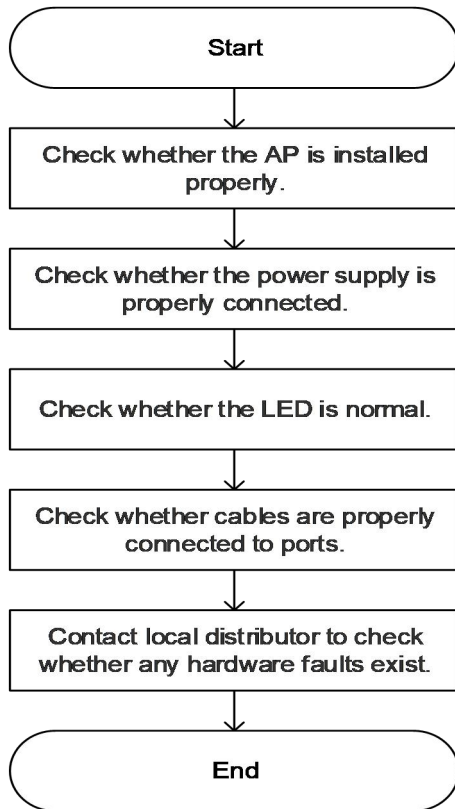
When the RG-RAP72Pro-OD is operating, you can monitor its status by observing the LEDs.

5.2 Maintenance

If the hardware is faulty, please contact the local distributor.

6 Troubleshooting

6.1 General Troubleshooting Flowchart



6.2 Common Faults

- The status LED is off after the AP is powered on.
If the AP is powered by a standard PoE PSE, verify that the PSE is IEEE 802.3at-compliant, and that the Ethernet cable is properly connected.
- The Ethernet port does not work after an Ethernet cable is connected.
Verify that the device at the other end of the Ethernet cable is working properly. Then, verify that the cable is capable of providing the required data rate, and is properly connected.
- A client cannot discover the AP.
 - Verify that the AP is properly powered.
 - Verify that the Ethernet port is correctly connected.
 - Verify that the AP is correctly configured.
 - Move the client device closer to the AP.

7 Appendixes

7.1 Connectors and Media

7.1.1 2500BASE-T/1000BASE-T/100BASE-TX

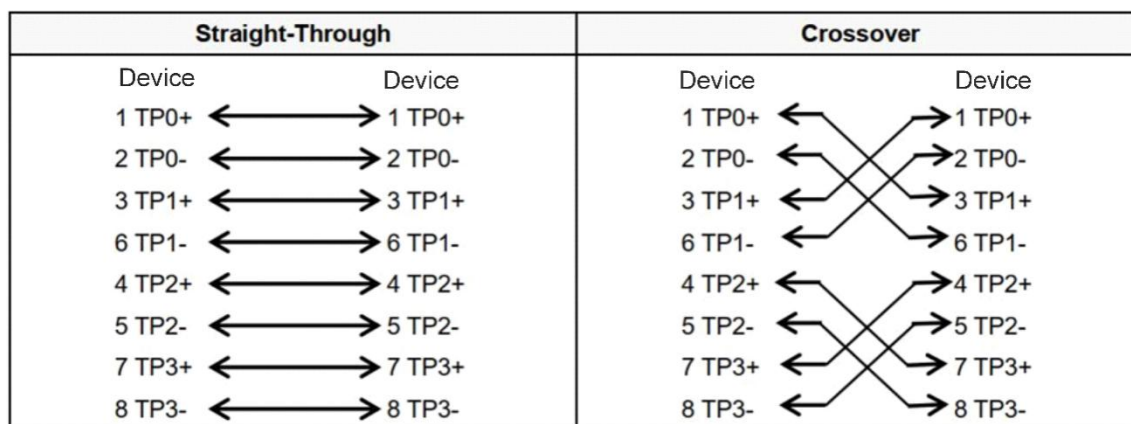
The 2500BASE-T/1000BASE-T/100BASE-TX port is a 100/1000/2500 Mbps port that supports auto MDI/MDIX Crossover.

Compliant with the IEEE 802.3bz standard, 2500BASE-T requires a Category 6 (Cat 6) or Category 5e (Cat 5e) 100-ohm UTP or STP (recommended) cable with a maximum distance of 100 meters (328 feet). When PoE power supply is used at the same time, a CAT6 STP cable is recommended, and both the port and cable should be properly shielded.

Compliant with the IEEE 802.3ab standard, 1000BASE-T port requires a Cat 6 or Cat 5e 100-ohm UTP or STP (recommended) cable with a maximum distance of 100 meters (328 feet). When PoE power supply is used at the same time, a CAT6 STP cable is recommended, and both the port and cable should be properly shielded.

The 2500BASE-T/1000BASE-T port requires four pairs of wires to be connected for data transmission. [Figure 7-1](#) shows the four pairs of wires for the 2500BASE-T/1000BASE-T port.

Figure 7-1 2500BASE-T/1000BASE-T Twisted Pair Connections



The 100BASE-TX port can be connected using 100-ohm Category 5 (Cat 5) cables with a maximum distance of 100 meters (328 ft.). [Table 7-1](#) shows 100BASE-TX pin assignments.

Table 7-1 100BASE-TX Pin Assignments

Pin	Socket	Plug
1	Input Receive Data+	Output Transmit Data+
2	Input Receive Data-	Output Transmit Data-
3	Output Transmit Data+	Input Receive Data+

Pin	Socket	Plug
6	Output Transmit Data–	Input Receive Data–
4, 5, 7, 8	Not Used	Not Used

[Figure 7-2](#) show feasible connections of the straight-through and crossover twisted pairs for a 100BASE-TX port.

Figure 7-2 100BASE-TX Twisted Pair Connection

Straight-Through		Crossover	
Device	Device	Device	Device
1 IRD+ ←	→ 1 OTD+	1 IRD+ ←	→ 1 IRD+
2 IRD- ←	→ 2 OTD-	2 IRD- ←	→ 2 IRD-
3 OTD+ ←	→ 3 IRD+	3 OTD+ ←	→ 3 OTD+
6 OTD- ←	→ 6 IRD-	6 OTD- ←	→ 6 OTD-

7.2 Cabling Recommendations

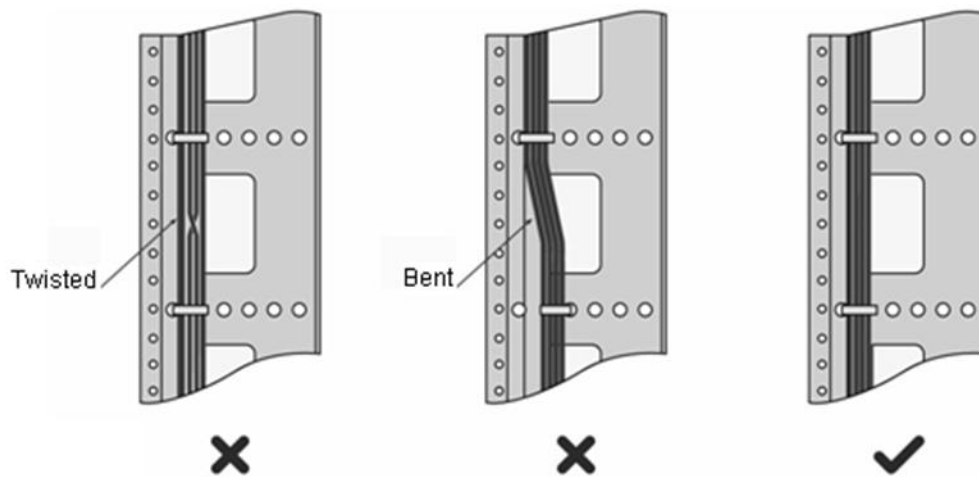
During installation, route cable bundles upward or downward along the sides of the rack depending on the actual situation in the equipment room. All cable connectors used for transit should be placed at the bottom of the cabinet rather than be exposed outside of the cabinet. Power cords are routed beside the cabinet, and top cabling or bottom cabling is adopted according to the actual situation in the equipment room, such as the positions of the DC power distribution box, AC socket, or lightning protection box.

Requirements for Cable Bend Radius

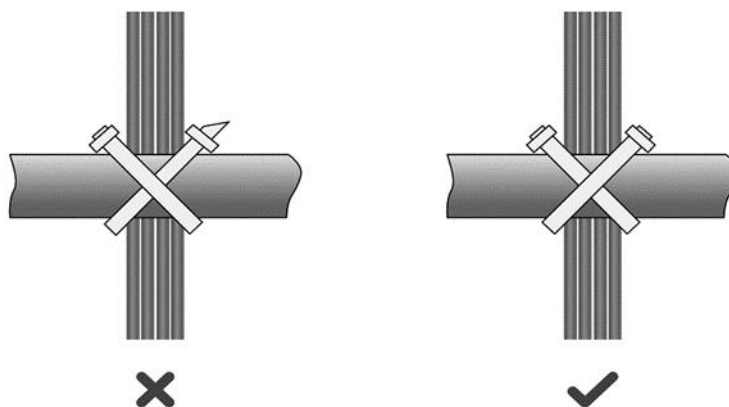
- The bend radius of a fixed power cord, network cable, or flat cable should be over five times greater than their respective diameters. The bend radius of these cables that are often bent or plugged should be over seven times greater than their respective diameters.
- The bend radius of a fixed common coaxial cable should be over seven times greater than its diameter. The bend radius of the common coaxial cable that is often bent or plugged should be over 10 times greater than its diameter.
- The bend radius of a fixed high-speed cable (such as an SFP+ cable) should be over five times greater than its diameter. The bend radius of the fixed high-speed cable that is often bent or plugged should be over 10 times greater than its diameter.

Precautions for Bundling up Cables

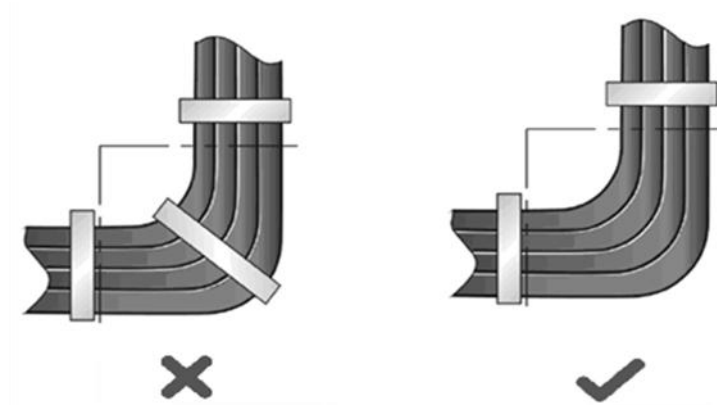
- Before cables are bundled, mark labels and stick the labels to cables wherever appropriate.
- Cables should be neatly and properly bundled in the rack without twisting or bending, as shown in [Figure 7-3](#).

Figure 7-3 Bundling up Cables (1)

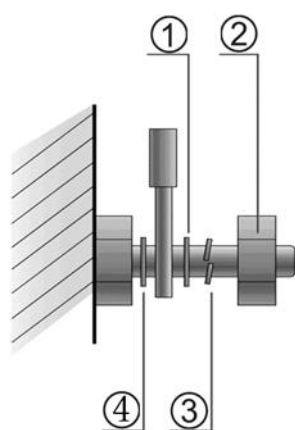
- Cables of different types (such as power cords, signal cables, and grounding cables) should be separated in cabling and bundling. Mixed bundling is disallowed. When they are close to each other, you are advised to adopt crossover cabling. In the case of parallel cabling, maintain a minimum distance of 30 mm (1.18 in.) between power cords and signal cables.
- The cable management brackets and cabling troughs inside and outside the cabinet should be smooth without sharp corners.
- The metal hole traversed by cables should have a smooth and fully rounding surface or an insulated lining.
- Use cable ties to bundle up cables properly. Do not connect two or more cable ties to bundle up cables.
- After bundling up cables with cable ties, cut off the remaining part. The cut should be smooth and trim, without sharp corners, as shown in [Figure 7-4](#).

Figure 7-4 Bundling up Cables (2)

- When cables need to be bent, you should first bundle them up, as shown in [Figure 7-5](#). However, the buckle cannot be bundled within the bend area. Otherwise, considerable stress may be generated in cables, breaking cable cores.

Figure 7-5 Bundling up Cables (3)

- Cables not to be assembled or remaining parts of cables should be folded and placed in a proper position of the rack or cable trough. The proper position refers to a position that does not affect device running or damage the device or cable.
- 220 V and –48 V power cords must not be bundled on the guide rails of moving parts.
- The power cords connecting moving parts such as grounding cables should be reserved with some access after being assembled to avoid suffering tension or stress. After the moving part is installed, the remaining cable part should not touch heat sources, sharp corners, or sharp edges. If heat sources cannot be avoided, high-temperature cables should be used.
- When screw threads are used to fasten cable terminals, the anchor or screw must be tightly fastened, as shown in [Figure 7-6](#).

Figure 7-6 Cable Fastening

① Flat Washer

② Nut

③ Spring Washer

④ Flat Washer

- Hard power cords should be fastened in the terminal connection area to prevent stress on terminal connection and cable.
- Do not use self-tapping screws to fasten terminals.

- Power cords of the same type and in the same cabling direction should be bundled up into cable bunches, with cables in cable bunches clean and straight.
- Binding by using buckles should be performed according to Table 7-2.

Table 7-2 Cable Bunch

Cable Bunch Diameter	Distance between Every Binding Point
10 mm (0.39 in.)	80 mm to 150 mm (3.15 in. to 5.91 in.)
10 mm to 30 mm (0.39 in. to 1.18 in.)	150 mm to 200 mm (5.91 in. to 7.87 in.)
30 mm (1.18 in.)	200 mm to 300 mm (7.87 in. to 11.81 in.)

- No knot is allowed in cabling or bundling.
- For wiring terminal blocks (such as air switches) of the cord end terminal type, the metal part of the cord end terminal should not be exposed outside the terminal block when assembled.