



R5AC-PTP Quick Start Guide

Package Contents



Rocket5ac PTP



Gigabit PoE Adapter (24V, 0.5A)



Power Cord

Installation Requirements

- Shielded Category 5 (or above) cabling should be used for all wired Ethernet connections and should be grounded through the AC ground of the PoE.

We recommend that you protect your networks from harmful outdoor environments and destructive ESD events with industrial-grade, shielded Ethernet cable from Ubiquiti. For more details, visit ui.com/toughcable

Hardware Overview





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1 RP-SMA Antenna Connectors
Used to attach RF cables (not included).
2 LEDs
<p>Signal In airOS®, you can modify the wireless signal strength threshold values for each LED on the Wireless tab under Signal LED Thresholds. Each LED will light when the wireless signal strength is equal to or greater than the LED's threshold value. The default values are shown below:</p> <div><div><div>-65 dBm</div><div></div></div><div><div>-73 dBm</div><div></div></div><div><div>-80 dBm</div><div></div></div><div><div>-94 dBm</div><div></div></div></div> <p>LAN The LAN LED will light steady blue when an active Ethernet connection is made to the LAN port and flash when there is activity.</p> <p>Power The Power LED will light blue when the device is connected to a power source.</p>
3 Reset Button
To reset to factory defaults, press and hold the Reset button for more than 10 seconds while the device is already powered on. Alternatively, the device may be reset remotely via a Reset button located on the bottom of the Gigabit PoE adapter.
4 LAN
The Gigabit Ethernet port is used to connect the power and should be connected to the LAN and DHCP server.

Hardware Installation



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1.



2.



3.



4.



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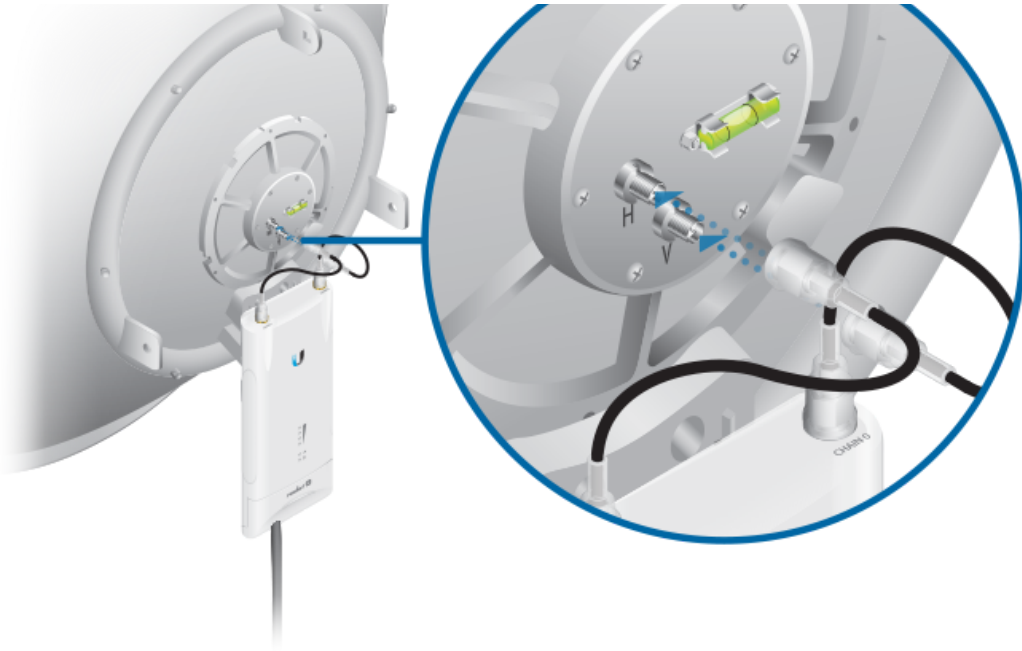
5.



6.



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7.



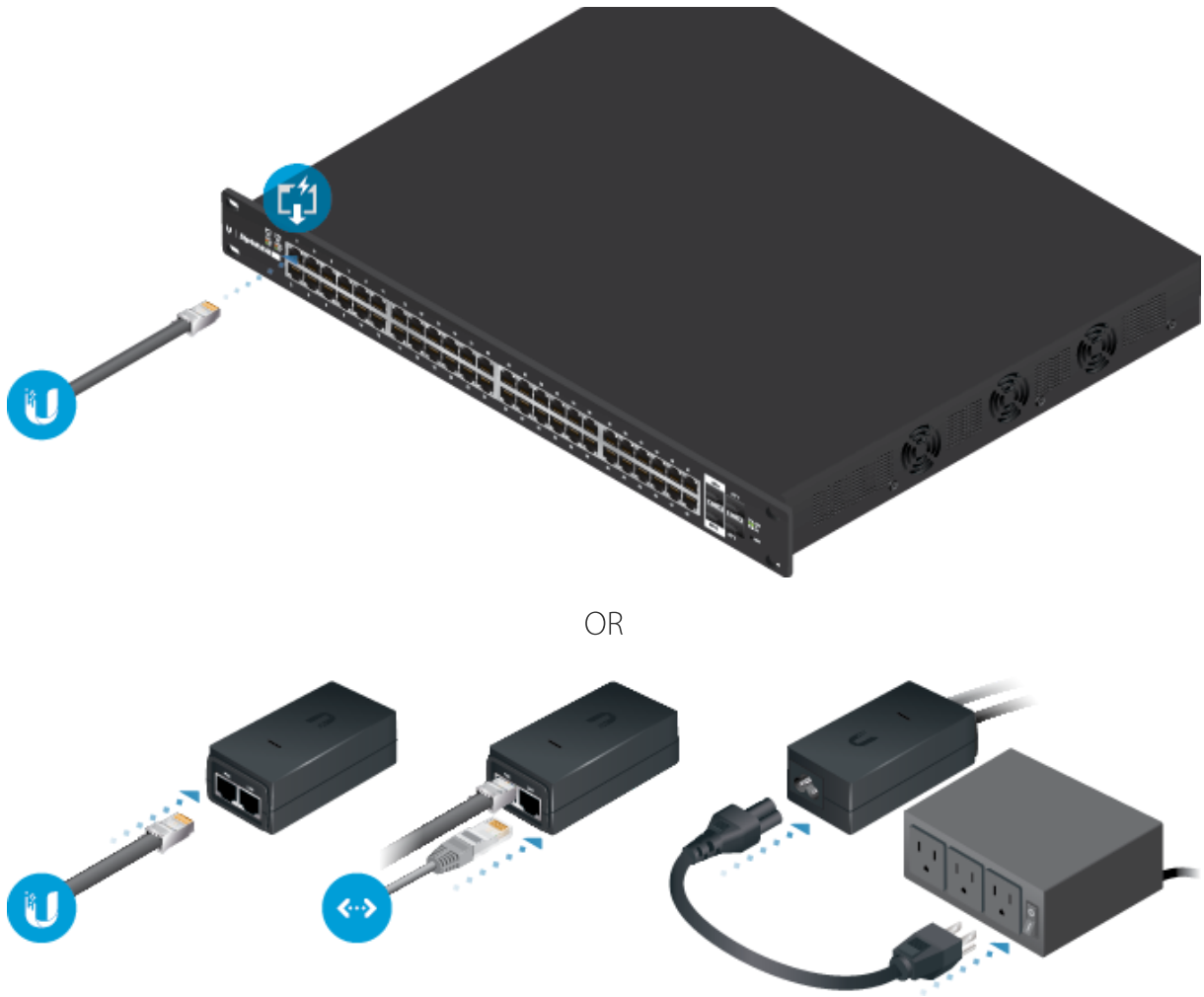
Connecting Power



WARNING: The switch port must comply with the power specifications listed in this Quick Start Guide.



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Accessing airOS

Connect to the airOS® Configuration Interface.

1. Make sure that your host machine is connected via Ethernet to the device.
2. Configure the Ethernet adapter on your host system with a static IP address on the 192.168.1.x subnet.
3. Launch your web browser. Type `https://192.168.1.20` in the address field. Press enter (PC) or return (Mac).



4. Select your Country and Language. You must agree to the Terms of Use to use the product. Click Continue.



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Please Set Up Your Device

DEVICE COUNTRY
Select Country

LANGUAGE
English

TERMS OF USE
This Ubiquiti Inc. radio device must be professionally installed. Properly installed shielded Ethernet cable and earth grounding must be used as conditions of product warranty. It is the installer's responsibility to follow local country regulations including operation within legal frequency channels and output power requirements. You are responsible for keeping the unit working according to these rules.
You must also read and agree to the terms of the [EULA](#) and [PRIVACY POLICY](#) before you can download or install or use the Ubiquiti airOS® Firmware.

☐ I agree to the Ubiquiti TERMS OF USE, EULA and PRIVACY POLICY

[UPDATE BACKUP CONFIGURATION](#) [CONTINUE](#)

Have a SmartPhone? Try our new UNMS to install this device

[Get it on Google Play](#) [Download on the App Store](#)

5. Create a username and password. Confirm your new password and then click Save.



Create Your Username and Password

CHOOSE YOUR USERNAME
Username

CHOOSE A STRONG PASSWORD
Password

CONFIRM NEW PASSWORD
Confirm Password

[BACK](#) [SAVE](#)

Have a SmartPhone? Try our new UNMS to install this device

[Get it on Google Play](#) [Download on the App Store](#)

The airOS Configuration Interface will appear, allowing you to customize your settings as needed. For details, refer to the User Guide available at ui.com/download/airmax-ac

Installer Compliance Responsibility

Devices must be professionally installed and it is the professional installer's responsibility to make sure the device is operated within local country regulatory requirements.



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The screenshot shows the configuration interface for the R5AC-PTP device. The left sidebar contains navigation options: Wireless, Network, Services, and System. The main area is divided into several sections:

- Wireless Mode:** Set to Station PTP.
- SSID:** ubnt, with a SELECT... button.
- Lock to AP MAC:** Empty field.
- Country:** United States.
- Channel Width:** Auto 20/40/80 MHz.
- Frequency List, MHz:** Unchecked.
- Calculate EIRP Limit:** Checked.
- Antenna Gain:** 0 dBi.
- Cable Loss:** 0 dB.
- Output Power:** 27 dBm.
- Auto Adjust Distance:** Checked.
- Distance:** 0.4 miles (0.6 km).
- Max TX Rate:** Auto.
- Security:** None.
- Signal LED Thresholds:** LED0: 84, LED1: 80, LED2: 79, LED3: 65.
- Advanced:** Aggregation Frames: 33.

A "SAVE CHANGES" button is located at the bottom right.

Antenna

Select your antenna from the list. If Calculate EIRP Limit is enabled, transmit output power is automatically adjusted to comply with the regulations of the applicable country. For a Custom antenna, Antenna Gain is entered manually. Note the requirements and antenna types listed below.

Cable Loss (When applicable)

Enter the cable loss in dB. Output power is adjusted to compensate for loss between the radio and the antenna.

This radio transmitter FCC ID: SWX-R5ACPTP / IC: 6545A-R5ACPTP has been approved by FCC / ISED Canada to operate with the antenna types listed below with the maximum permissible gain for each antenna type indicated. Antenna types not included in this list or having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Certified Antenna Types

Antenna	Frequency	Gain
Patch	5 GHz	6 dBi
Sector	5 GHz	22 dBi
Dish	5 GHz	34 dBi

Specifications

Rocket5ac PtP	
Dimensions	198.5 x 86.4 x 44.1 mm (7.82 x 3.40 x 1.74")
Weight	295 g (10.41 oz)
Networking Interface	(1) 10/100/1000 Ethernet Port
RF Connectors	(2) RP-SMA (Waterproof)



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Enclosure	Outdoor UV Stabilized Plastic	
Max. Power Consumption	8.5W	
Power Supply	24V, 0.5A Gigabit PoE Adapter (Included)	
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)	
Operating Temperature	-40 to 80° C (-40 to 176° F)	
Operating Humidity	5 to 95% Noncondensing	
ESD/EMP Protection	± 24KV Contact / Air for Ethernet	
Shock and Vibrations	ETSI300-019-1.4	
Certifications	CE, FCC, IC	
Operating Frequency (MHz)		
Worldwide	5150 - 5875	
US/CA	U-NII-2C:	5470 - 5725
	U-NII-3:	5725 - 5850

Safety Notices

- 1. Read, follow, and keep these instructions.
- 2. Heed all warnings.
- 3. Only use attachments/accessories specified by the manufacturer.



WARNING: Do not use this product in location that can be submerged by water.



WARNING: Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

Electrical Safety Information

- 1. Compliance is required with respect to voltage, frequency, and current requirements indicated on the manufacturer’s label. Connection to a different power source than those specified may result in improper operation, damage to the equipment or pose a fire hazard if the limitations are not followed.
- 2. There are no operator serviceable parts inside this equipment. Service should be provided only by a qualified service technician.
- 3. This equipment is provided with a detachable power cord which has an integral safety ground wire intended for connection to a grounded safety outlet.
 - a. Do not substitute the power cord with one that is not the provided approved type. Never use an adapter plug to connect to a 2-wire outlet as this will defeat the continuity of the grounding wire.



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- c. Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment.
- d. Protective earthing is provided by Listed AC adapter. Building installation shall provide appropriate short-circuit backup protection.
- e. Protective bonding must be installed in accordance with local national wiring rules and regulations.

Limited Warranty

ui.com/support/warranty

The limited warranty requires the use of arbitration to resolve disputes on an individual basis, and, where applicable, specify arbitration instead of jury trials or class actions.

Compliance

FCC

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

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.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operations of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This radio transmitter has been approved by FCC.

ISED Canada

CAN ICES-3(A)/NMB-3(A)

This device complies with ISED Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This radio transmitter has been approved by ISED Canada.

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

CAN ICES-3(A)/NMB-3(A)



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1. l'appareil ne doit pas produire de brouillage;
2. l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Le présent émetteur radio a été approuvé par ISDE Canada.

Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

IMPORTANT NOTE

Radiation Exposure Statement

- This equipment complies with radiation exposure limits set forth for an uncontrolled environment.
- This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

AVIS IMPORTANT

Déclaration sur l'exposition aux rayonnements

- Cet équipement est conforme aux limites prévues pour l'exposition aux rayonnements dans un environnement non contrôlé.
- Lors de l'installation et de la mise en fonctionnement de l'équipement, assurez-vous qu'il y ait une distance minimale de 20 cm entre l'élément rayonnant et vous.
- Cet émetteur ne doit être installé à proximité d'aucune autre antenne ni d'aucun autre émetteur, et ne doit être utilisé conjointement à aucun autre de ces appareils.

Australia and New Zealand



Warning: This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

Brazil



Nota: Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

CE Marking

CE marking on this product represents the product is in compliance with all directives that are applicable to it.





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IE	IT	LV	LT	LU	MT	NL	PL	PT	RO	SE	SI	SK	UK
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BFWA (Broadband Fixed Wireless Access) members noted in blue



Note: This device meets Max. TX power limit per ETSI regulations.

The following apply to products that operate in the 5 GHz frequency range:



Note: This device is restricted to indoor use only when operating in the 5150 - 5350 MHz frequency range within all member states.



Note: All countries listed may operate at 30 dBm. BFWA member states may operate at 36 dBm.



Note: Operation in the 5.8 GHz frequency band is prohibited in BFWA member states. Other countries listed may use the 5.8 GHz frequency band.

WEEE Compliance Statement

Declaration of Conformity

Online Resources

