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EdgePoint Router



Wall-Mount Bracket



Metal Straps (Qty. 2)



Cable Sleeve



Cable Ties (Qty. 20)



S2 Hex Wrench



Wall-Mount Screws (Qty. 4)



Wall-Mount Anchors (Qty. 4)



Phillips Bolts (Qty. 2)



Gigabit PoE (54V, 1.5A) with
Mounting Bracket



Power Cord



PoE Screws (Qty. 2)



Installation Requirements

- 7 mm socket wrench
- S2 hex wrench
- Ground wire – min. 10 AWG (5 mm²) and max. length: 1 m. As a safety precaution, ground the EdgePoint to a grounded mast, pole, tower, or grounding bar.
- 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

Power Options

Either the VDC or PoE input type is used at any one time. If both are connected, only the input type with the highest voltage will be used; the other can be used as a backup.

Both PoE inputs can be used at the same time. If there is a voltage difference, the higher-voltage source will be used first. The voltage from the initial source will drop as the load increases. When the voltage drops to the same level as the lower-voltage source, then the lower-voltage source will also start providing power.

Power Input Options

- 54VDC, 6A
- 54V, 1.5A on eth0 (PoE In)
- 54V, 1.5A on PoE In

Power Output Options

- EdgePoint (required)
- Passive 54/24V, 4-Pair PoE on eth1-eth2
- Passive 24V, 2-Pair PoE on eth3-eth7

The number of devices that can be powered depends on the power consumption of the specific devices and the power input option. Example: If you provide 54VDC, 1.5A, then you have 81W of power. If the EdgePoint uses 40W (Max. Power Consumption), then you have 41W available for passive PoE output. Check product specifications for the power consumption values to use in your calculations.

Hardware Overview

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1 Reset Button

[Click here](#) to learn how to reset the EdgePoint to factory defaults.

2 Console Port

RJ45 serial console port for Command Line Interface (CLI) management.



Note: Remove the protective plug from the Console port before use.

3 DC Input

Terminal block connector uses auto-polarity detection and accepts +42 to +56VDC, 6A input (including the Ubiquiti EdgePower™, model EP-54V-150W) to power the EdgePoint and passive PoE output. -48V is NOT supported.

4 PoE In Port

RJ45 port accepts 54V, 1.5A PoE input from a secondary PoE adapter (not included) to power the EdgePoint and passive PoE output.

5 PoE In / eth0 Port

RJ45 port supports a 10/100/1000 Ethernet connection and accepts data and 54V, 1.5A PoE input from the included Gigabit PoE Adapter to power the EdgePoint and passive PoE output.

6 eth1 - eth2 Ports (54/24V PoE Out)

RJ45 ports support 10/100/1000 Ethernet connections and passive 54/24V, 4-pair PoE output for airFiber® devices.

7 eth3 - eth7 Ports (24V PoE Out)

RJ45 ports support 10/100/1000 Ethernet connections and passive 24V, 2-pair PoE output for airMAX® devices.

RJ45 port eth6 and SFP 1 port are combination ports; eth6 is active only if the SFP 1 port is empty.

RJ45 port eth7 and SFP 2 port are combination ports; eth7 is active only if the SFP 2 port is empty.

Reserved for future use.

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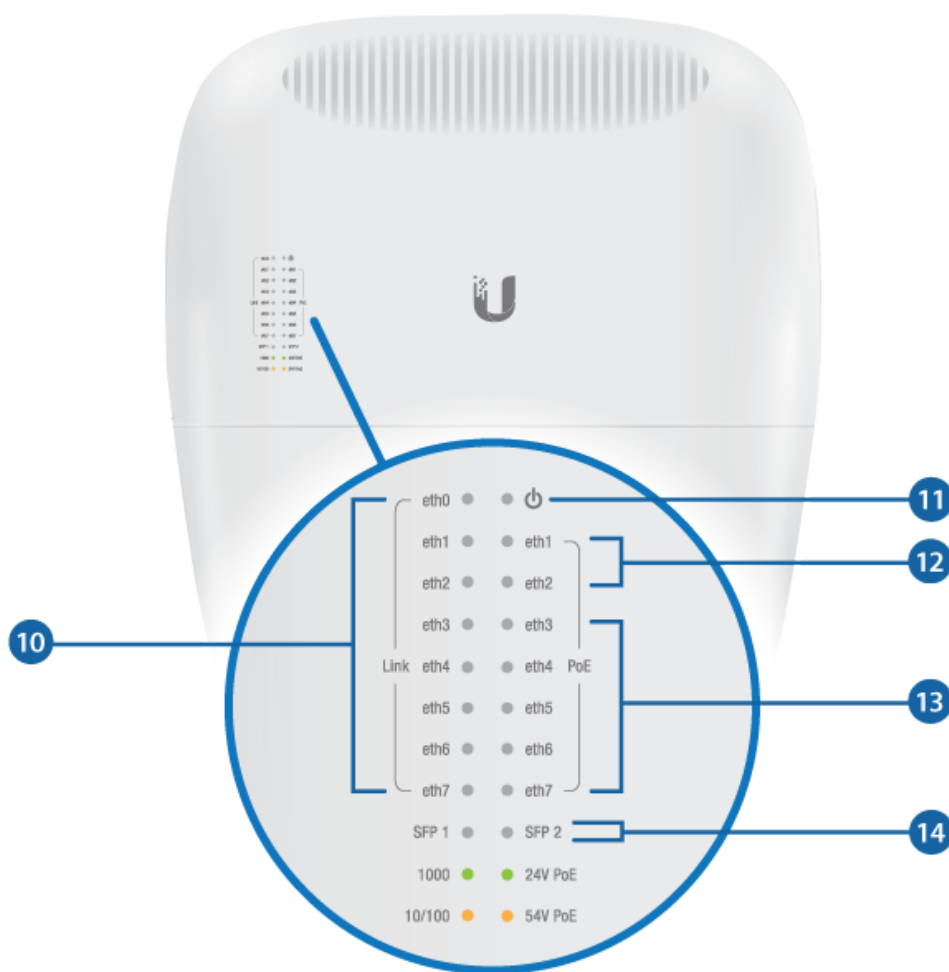
SFP ports are hot-swappable and support 100 Mbps or Gigabit fiber SFP modules.

If an SFP module is plugged into the SFP 1 port, then the SFP port is active, and the RJ45 port eth6 is deactivated.

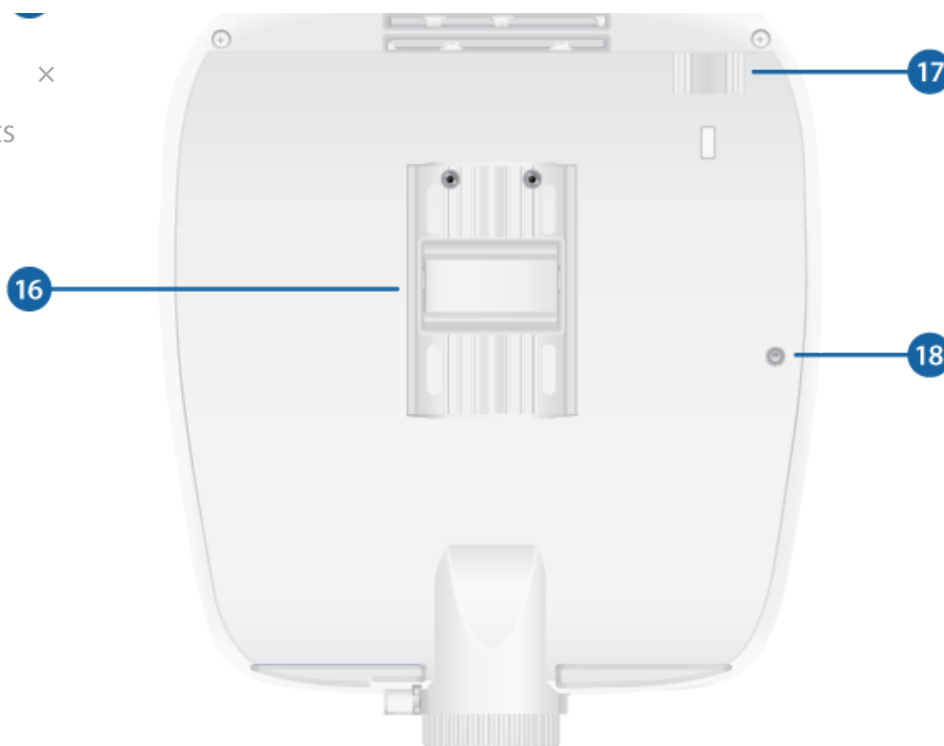
If an SFP module is plugged into the SFP 2 port, then the SFP port is active, and the RJ45 port eth7 is deactivated.



Note: For installations with extreme temperatures, please use industrial-grade fiber SFP modules.



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10 Speed/Link/Activity LED (eth0 - eth7 Ports)

Off	No Link
Amber	10/100 Mbps Link Flashing Indicates Activity
Green	1000 Mbps (1 Gbps) Link Flashing Indicates Activity

11 Power LED

Green	EdgePoint Powered On
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12 PoE Output LED (eth1 - eth2 Ports)

Off	No PoE
Amber	54V, 4-Pair Passive
Green	24V, 4-Pair Passive

13 PoE Output LED (eth3 - eth7 Ports)

Off	No PoE
Green	24V, 2-Pair Passive

14 Speed/Link/Activity LED (SFP 1 - 2 Ports)

Off	No Link
-----	---------

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1000 Mbps (1 Gbps) Link
Flashing Indicates Activity

15 Lanyard Loop

Used for temporary support during installation.

16 Pole-Mount Bracket

Used for pole-mounting or in combination with the included Wall-Mount Bracket for wall-mounting.

17 PicoStation® M2HP Slot

Used for mounting an optional PicoStationM2HP (not included) to the back of the EdgePoint. (You can use the PicoStationM2HP for wireless management of the EdgePoint.)

18 Ground Bonding Point

Used to secure a ground wire (not included).

Attaching the Cable Sleeve



Note: You have two options for using a 2.0-inch NPT (National Pipe Thread) male conduit (not included):

- Use the conduit instead of the Cable Sleeve.
- Use the conduit to extend the Cable Sleeve.

Hardware Installation

Mount the EdgePoint on a pole or to a wall:

- ["Pole-Mounting"](#)

Pole-Mounting

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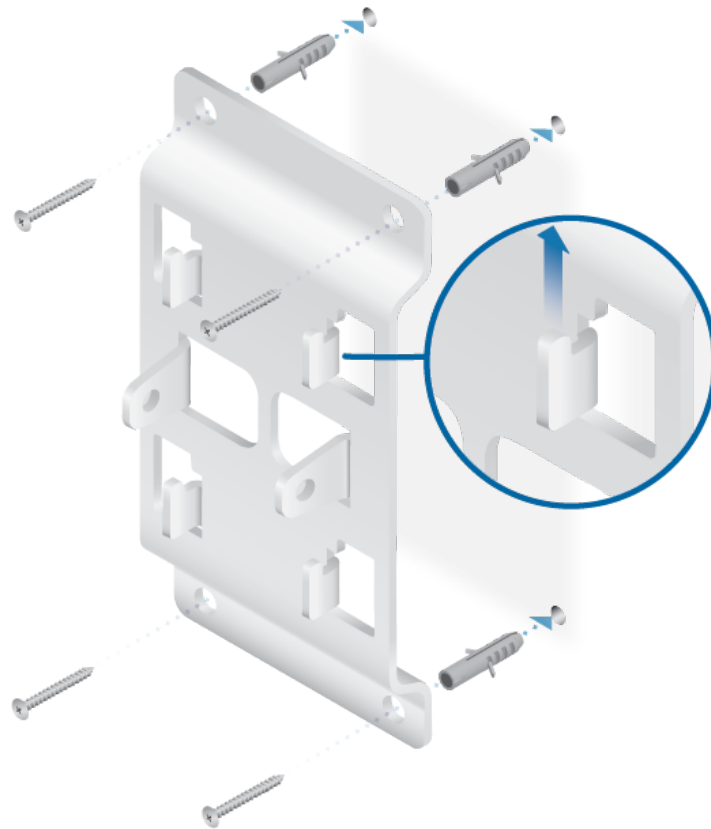
2.



3. Proceed to ["Grounding the EdgePoint"](#).

Note: The Wall-Mount Bracket must be anchored directly to a stud or other × y stable surface.

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2.



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Grounding the EdgePoint

1.



2.

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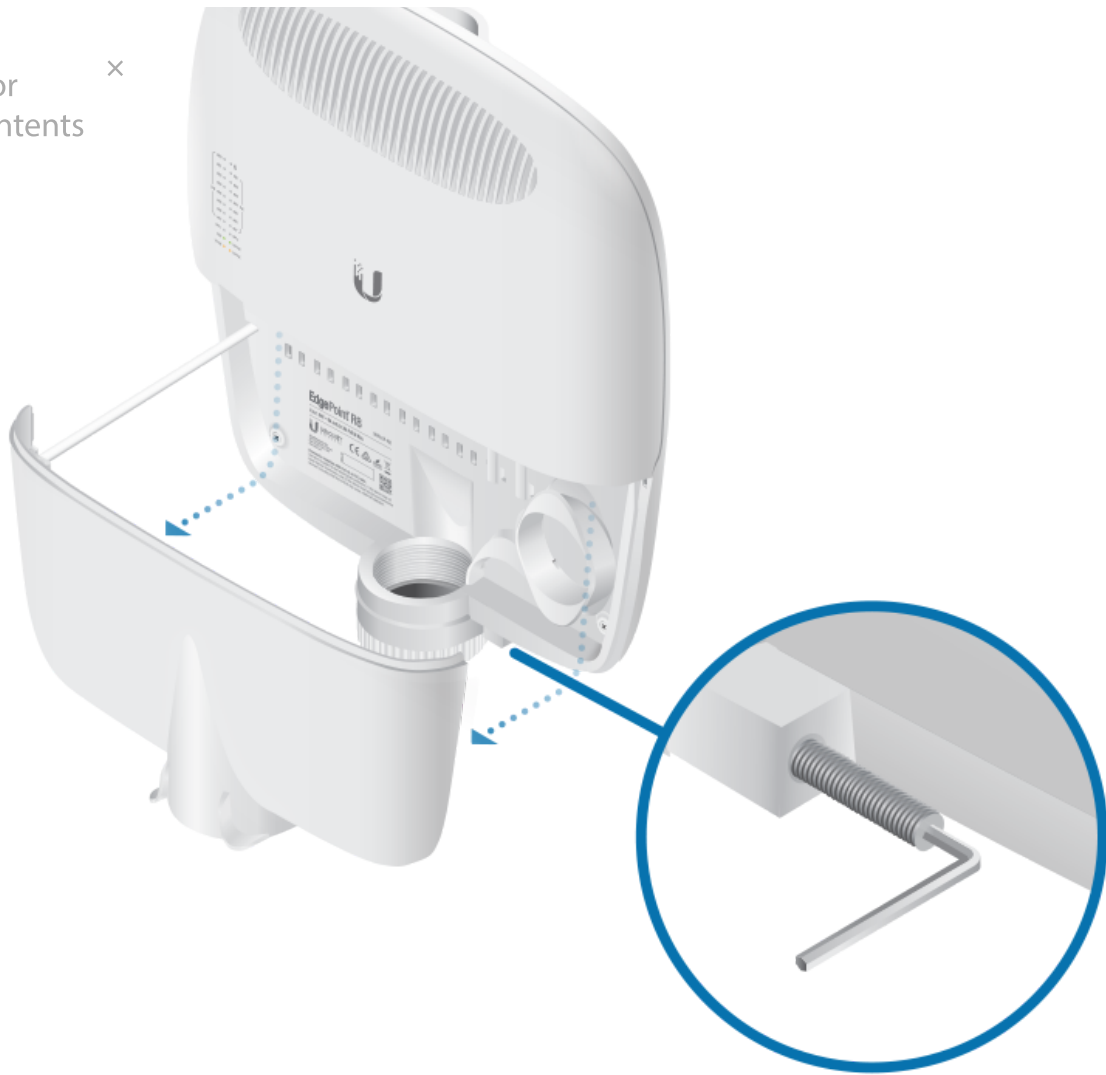
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Connecting Ethernet

1.

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2.



Note: PoE is disabled by default.



3.

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Connecting SFP

For information about compatible fiber SFP modules, visit:
ubnt.link/SFP_DAC_Compatibility

1.



Note: The corresponding RJ45 port will be deactivated.

2.

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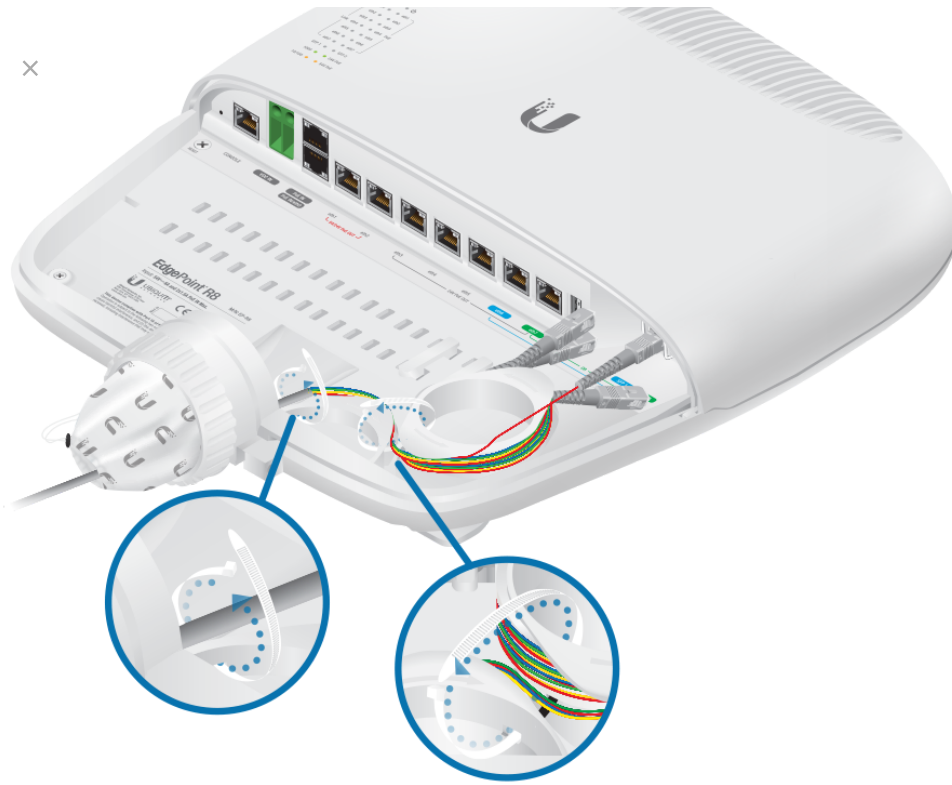


3.



4.

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Connecting Power

Proceed to the appropriate section:

- ["Connecting to the VDC Input"](#)
- ["Connecting Power Using PoE"](#)



WARNING: -48V is NOT supported.

Connecting to the VDC Input

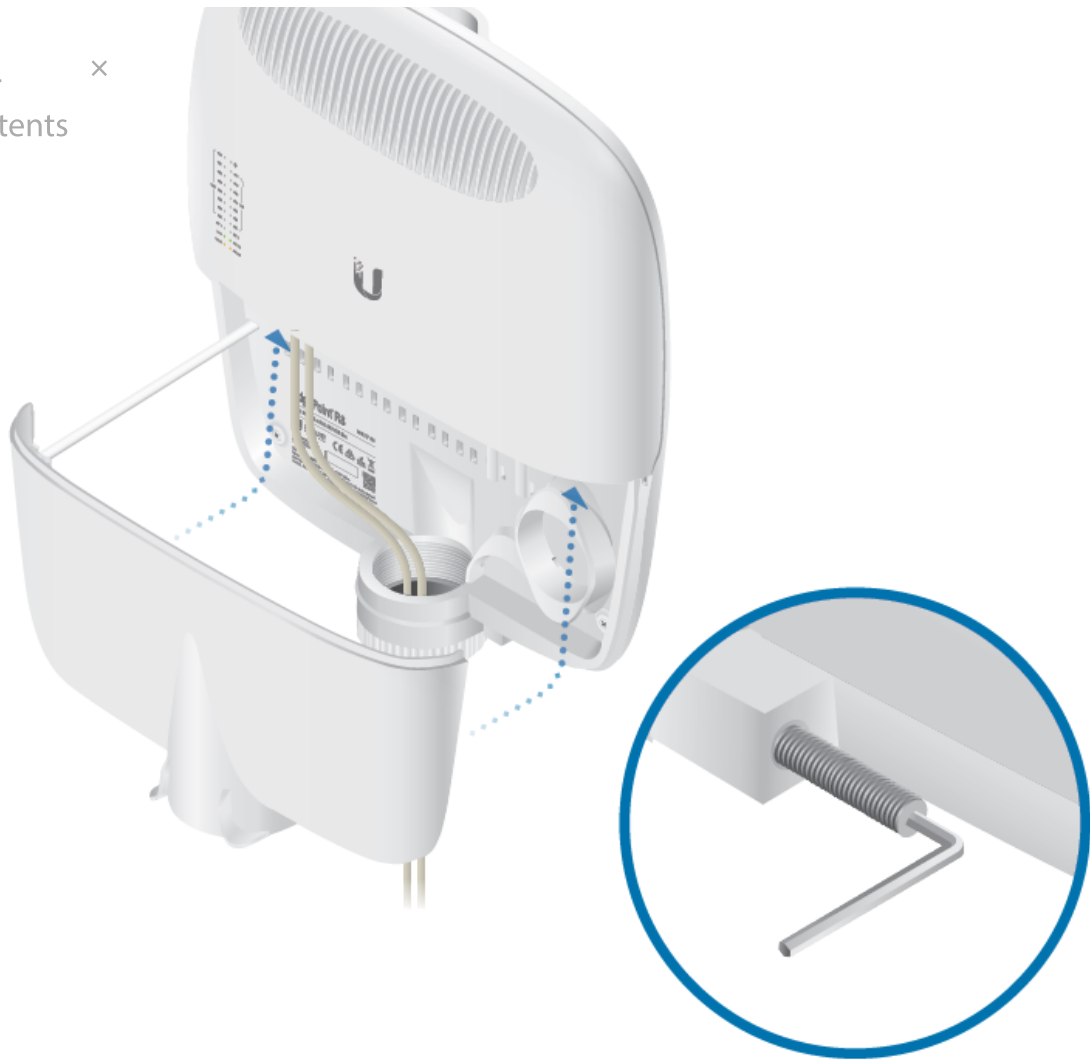
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Connecting Power Using PoE

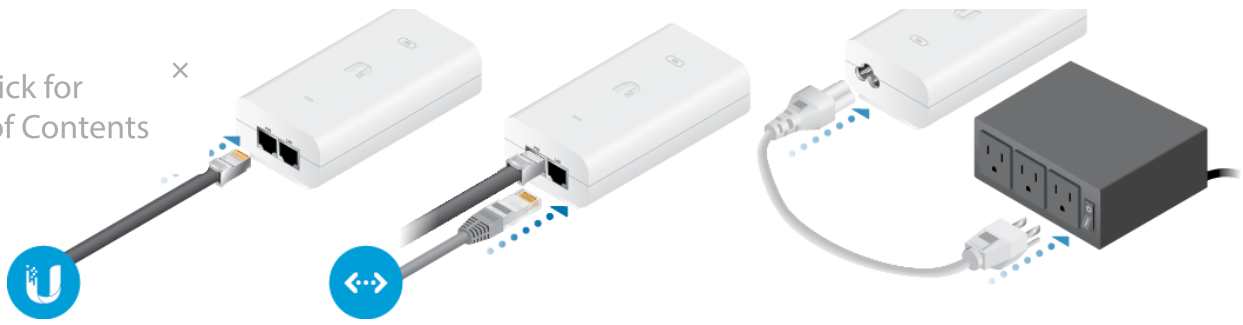
The following instructions show the PoE In / eth0 port; however, you can use the PoE In port above eth0 instead.

1.

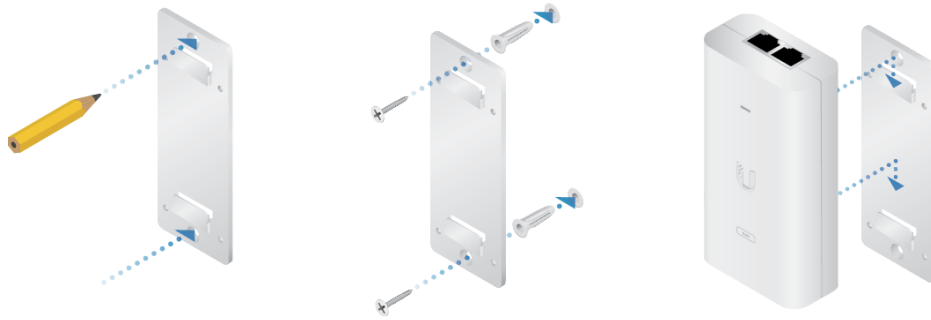


2.

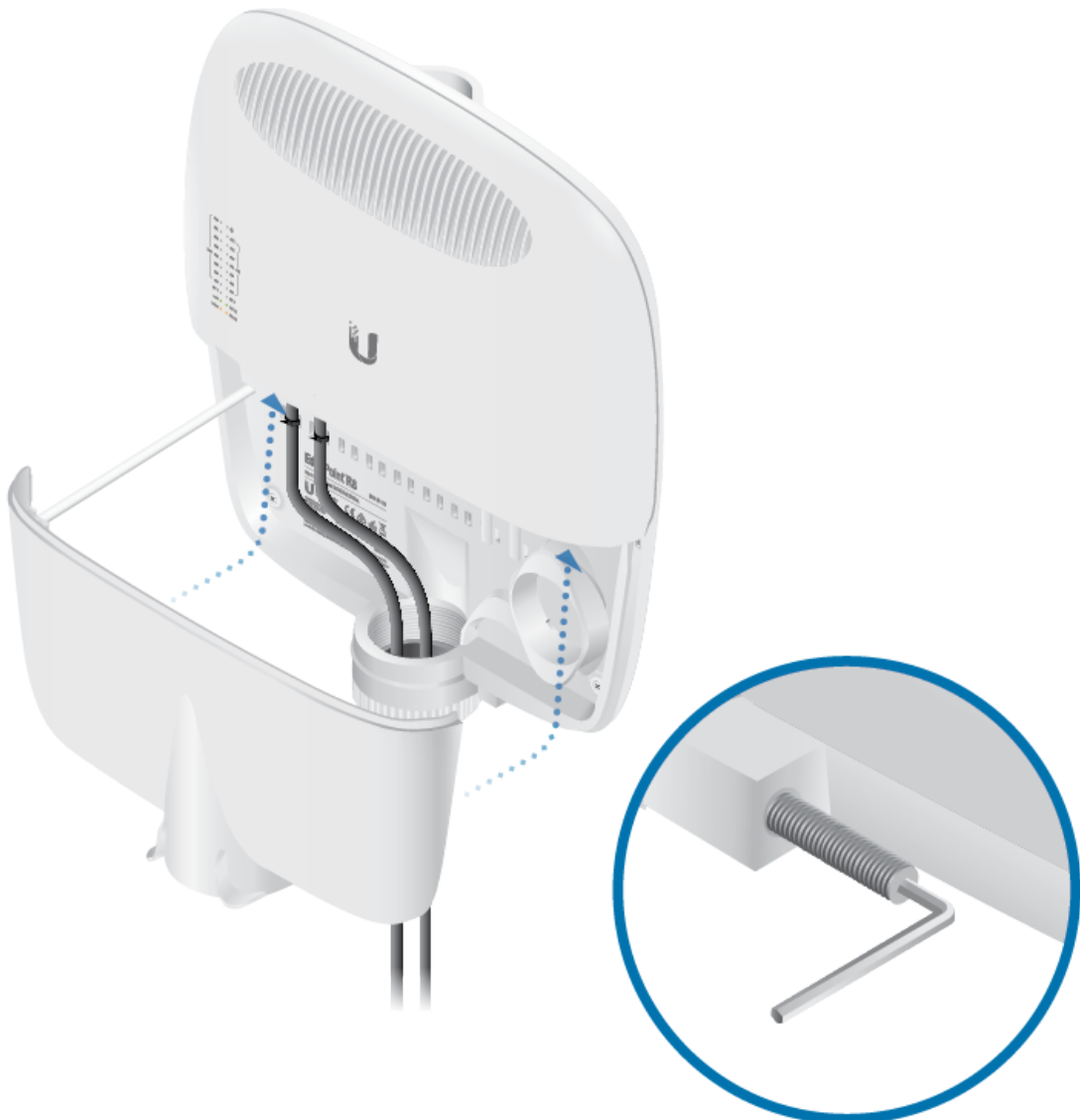
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Optional



3.



Accessing the EdgeOS Configuration Interface

address of 192.168.1.1. To configure the EdgePoint, proceed to the appropriate section: DHCP

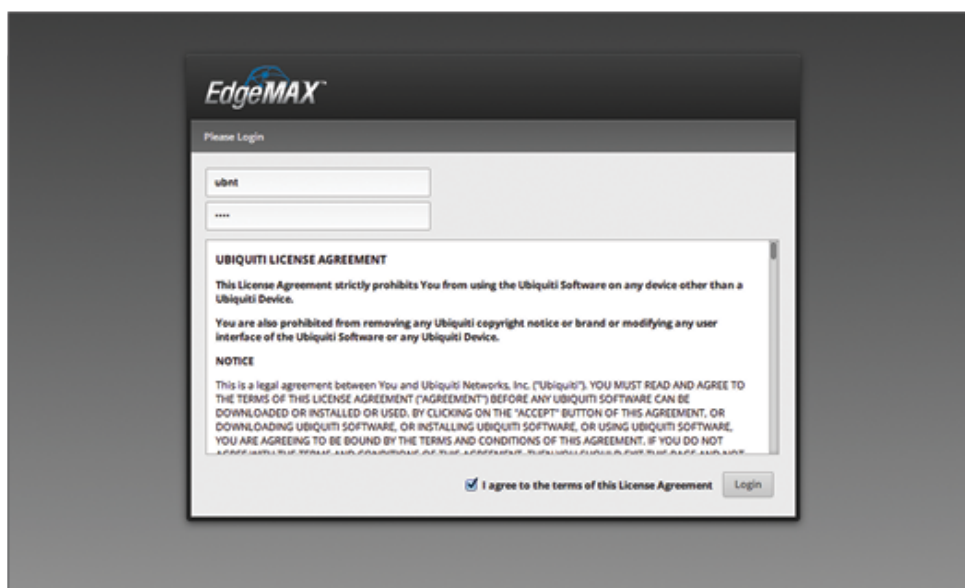
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Use one of the following methods:

- Set up the DHCP server to provide a specific IP address to the EdgePoint based on its MAC address (on the label).
- Let the EdgePoint obtain an IP address and then check the DHCP server to see which IP address was assigned.
 1. Connect an Ethernet cable from eth1 on the EdgePoint to a LAN segment that has an existing DHCP server.



2. Launch your web browser. Enter the appropriate IP address in the address field. Press enter (PC) or return (Mac).
3. Enter ubnt in the Username and Password fields. Read the Ubiquiti License Agreement, and check the box next to I agree to the terms of this License Agreement to accept it. Click Login.



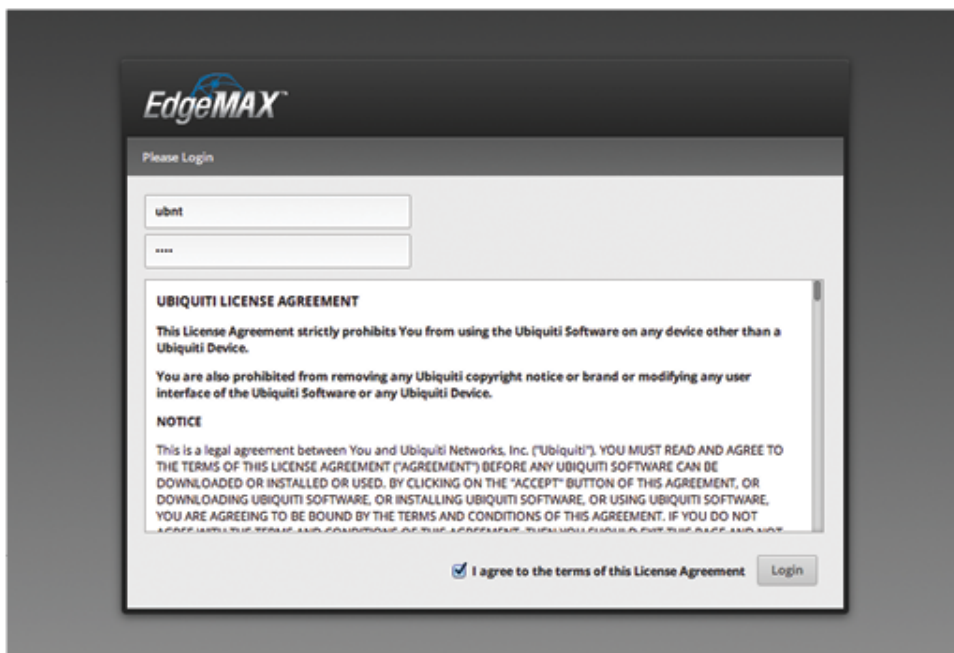
The EdgeOS Configuration Interface will appear, allowing you to customize your settings as needed. For more information, refer to the EdgeOS User Guide, which is available at

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Connect an Ethernet cable from the Ethernet port on your computer to the port labeled eth0 on the EdgePoint. (If you are using PoE, connect your computer to the EdgePoint via a PoE switch, or to the adapter's LAN port.)



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://192.168.1.1` in the address field, and press enter (PC) or return (Mac).
4. Enter `ubnt` in the Username and Password fields. Read the Ubiquiti License Agreement, and check the box next to I agree to the terms of this License Agreement to accept it. Click Login.



The EdgeOS Configuration Interface will appear, allowing you to customize your settings as needed. For more information, refer to the EdgeOS User Guide, which is available at ui.com/download/edgemax

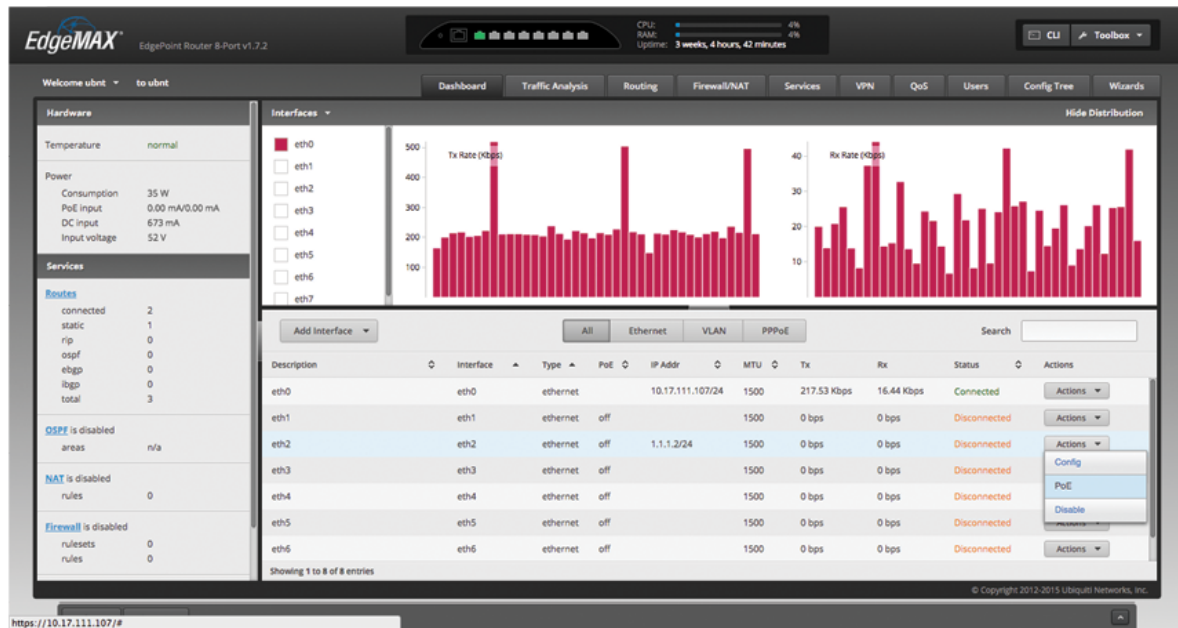
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our device using UNMS, which lets you configure, monitor, upgrade, and test using a single application. Get started at www.unms.com

Configuring PoE Settings

WARNING: Before activating 54V or 24V passive PoE, ensure that the connected device supports PoE and the supplied voltage.

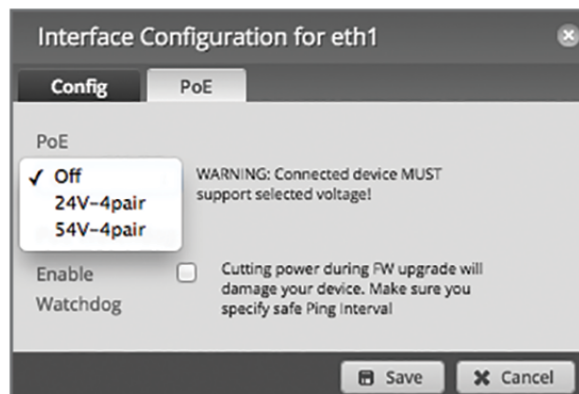
1. Go to Actions > PoE for the interface you want to configure.



2. Configure the PoE setting:

- For eth1-eth2, select Off, 24V-4pair, or 54V-4pair.
- For eth3-eth7, select Off or 24V.

Then click Save.



WARNING: Do NOT connect 4-pair PoE devices, such as airFiber devices, to ports eth3-eth7. They support 2-pair PoE only.

Note: If the PoE screen states that PoE is not supported, then there is insufficient power. You will need to increase the power input to the EdgePoint.

Click for [×] Table of Contents ^{ion}, refer to the EdgeOS User Guide, which is available at [/edgemax](https://edgemax.com)

Specifications

EP-R8	
Dimensions	326.6 x 382.7 x 88.8 mm (12.86 x 15.07 x 3.50")
With Wall-Mount	326.6 x 382.7 x 105.5 mm (12.86 x 15.07 x 4.15")
Weight	3.4 kg (7.50 lb)
With Wall-Mount	3.8 kg (8.38 lb)
Max. Power Consumption	40W (Excludes PoE Output)
Power Input	(1) DC Terminal Block or (2) RJ45 (PoE In and eth0) (Self-Correcting Polarity Protection on DC Terminal Block Only, Diode ORed Protection on All Power Inputs)
Power Supply	Min. 54V / 0.8A (Excludes PoE Output Power)
VDC Input	54V / 6A
Passive PoE Input	(2) 54V / 1.5A, 4-Pair (+1, 2, 4, 5; -3, 6, 7, 8) Passive PoE, eth0 and PoE In (PoE In: DC Only)
Passive PoE Output	(2) 54V or 24V / 1.4A, 4-Pair (+1, 2, 4, 5; -3, 6, 7, 8) Passive PoE, eth1 to eth2 (5) 24V / 0.7A, 2-Pair (+4, 5; -7, 8) Passive PoE, eth3 to eth7
Power Monitoring	(1) DC Terminal Block, Input Power (2) RJ45, PoE In and eth0, Input Power
Supported Voltage Range	+42 to +56VDC (-48V is NOT Supported)
Button	Reset
LEDs	
System	Power
eth0	Speed/Link/Activity
eth1 to eth7	Speed/Link/Activity, PoE
SFP	Speed/Link/Activity
Ports	
Serial Console Port	(1) RJ45 Serial Port
PoE In Port	(1) RJ45 Port
Data Ports	(6) 10/100/1000 RJ45 Ports (2) 10/100/1000 RJ45/SFP Combination Ports
Processor	Dual-Core 600 MHz, MIPS64 with Hardware Acceleration for Packet Processing
System Memory	2 GB DDR3-1600 RAM
Code Storage	4 GB
Certifications	CE, FCC, IC

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-40 to 65° C (-40 to 149° F)

10 - 90% Noncondensing

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.
 - b. The equipment requires the use of the ground wire as a part of the safety certification, modification or misuse can provide a shock hazard that can result in serious injury or death.
 - 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

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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 instructions, 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.

ISED Canada

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

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.

CE Marking

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



WEEE Compliance Statement

Declaration of Conformity

Online Resources

