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EdgeRouter X SFP



Power Adapter (24V, 2.5A)



Power Cord

Installation Requirements

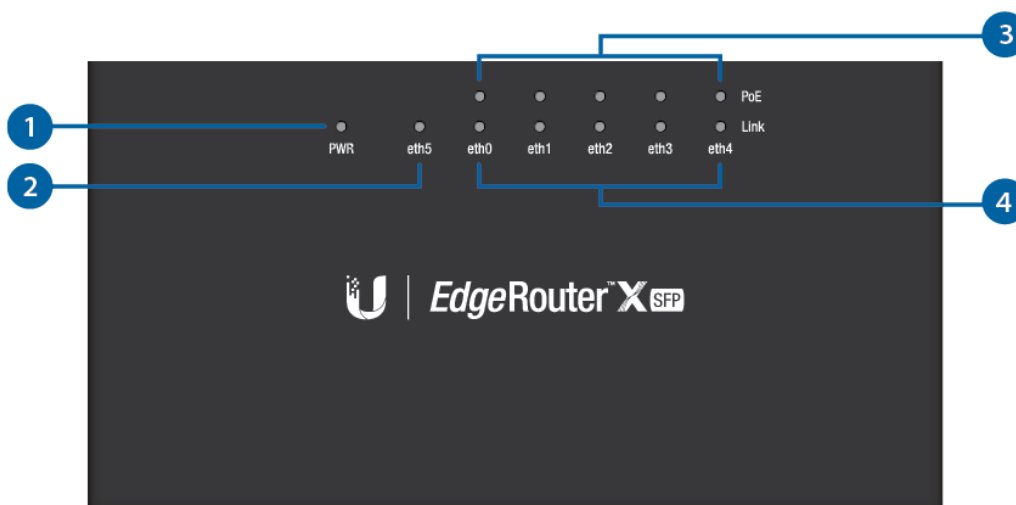
- For indoor applications, use Category 5 (or above) UTP cabling approved for indoor use.
- For outdoor applications, shielded Category 5 (or above) cabling should be used for all wired Ethernet connections and should be grounded through the AC ground of the power supply.

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

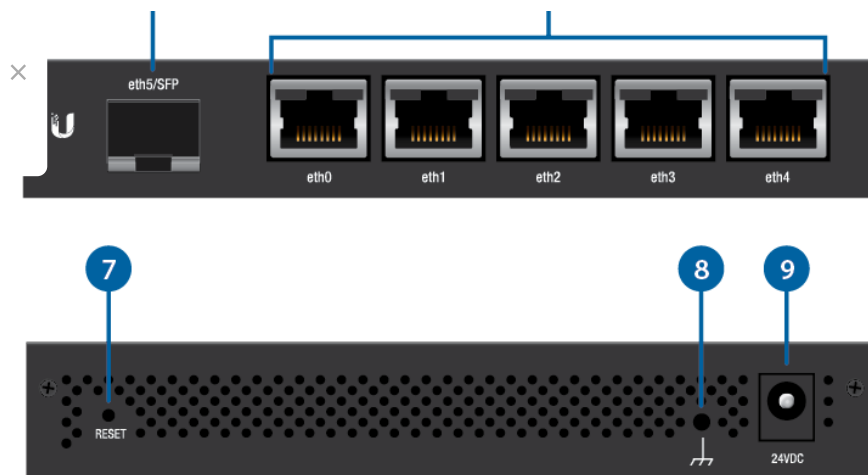


Note: Although the cabling can be located outdoors, the EdgeRouter itself should be housed inside a protective enclosure.

Hardware Overview



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1 Power LED

Off	Power Off
Green	Power On

2 Link/Activity LED (eth5 Port)

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

3 PoE LED (eth0 - eth4 Ports)

Off	No PoE
Green	24V Passive

4 Link/Activity LED (eth0 - eth4 Ports)

Off	No Link
Green	10/100/1000 Mbps Link Flashing Indicates Activity

5 eth5/SFP Port

The SFP port is hot-swappable and supports a 100 Mbps or Gigabit fiber SFP module.

6 eth0 - eth4 Ports

RJ45 ports support passive 24V PoE output and 10/100/1000 Ethernet connections.

7 Reset Button

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

ESD grounding for enhanced ESD protection. The ground wire and screw with washer are recommended screw size: M3-0.5 x 4 mm).

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Connect the Power Adapter.

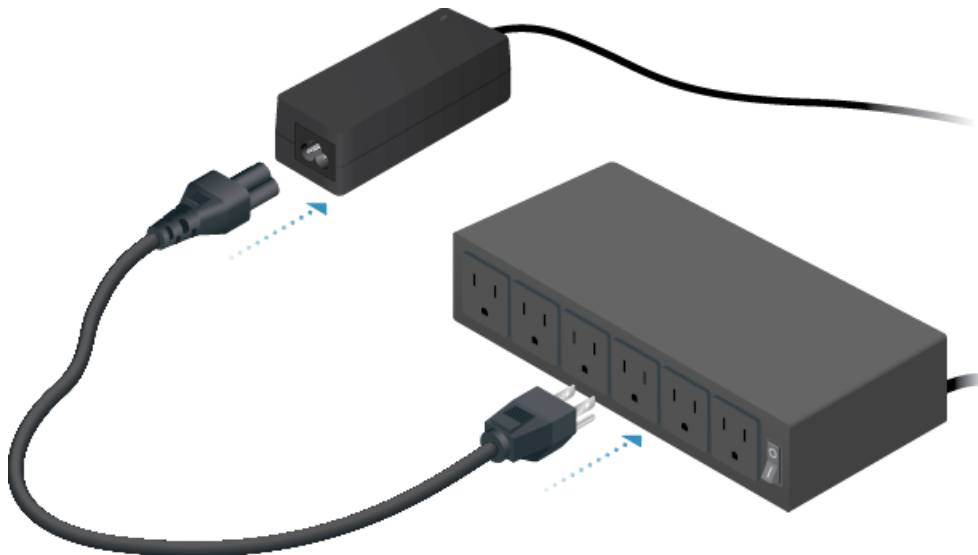
Hardware Installation

Connecting Power

1.



2.



Connecting Ethernet



Note: PoE is disabled by default.

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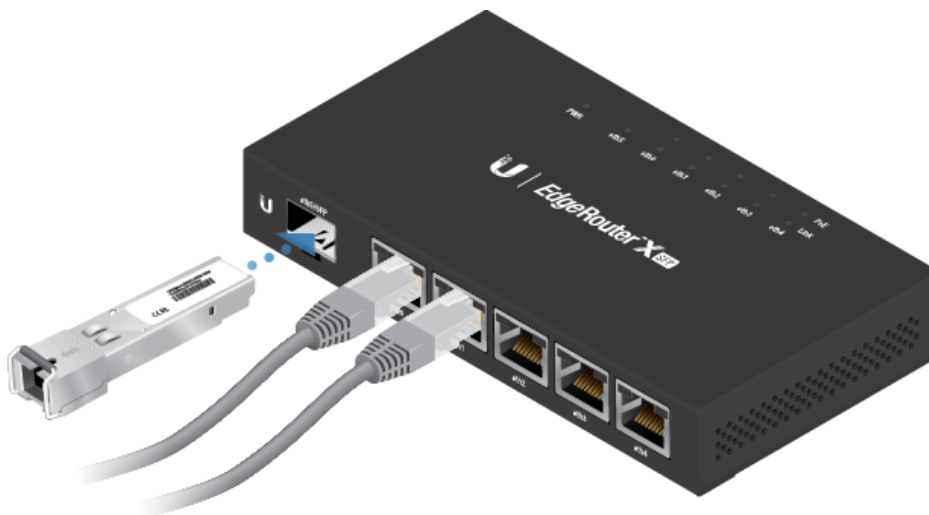


Connecting SFP (Optional)

1.

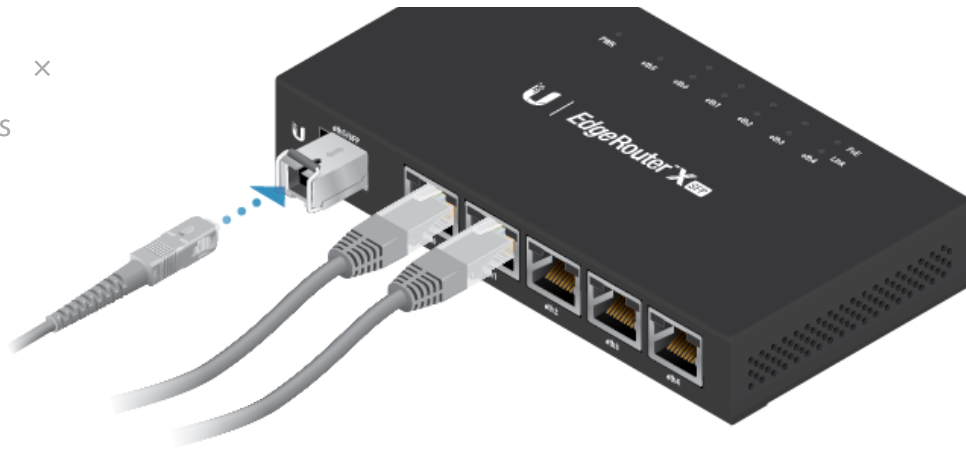


2.



3.

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For information about compatible fiber SFP modules, visit:

ubnt.link/SFP_DAC_Compatibility

Accessing the EdgeOS Configuration Interface

The EdgeOS® configuration interface can be accessed via DHCP or static IP address assignment. By default, eth1 is set up as a DHCP client, while eth0 is assigned a static IP address of 192.168.1.1. To configure the EdgeRouter, proceed to the appropriate section: DHCP or [“Static IP Address”](#).

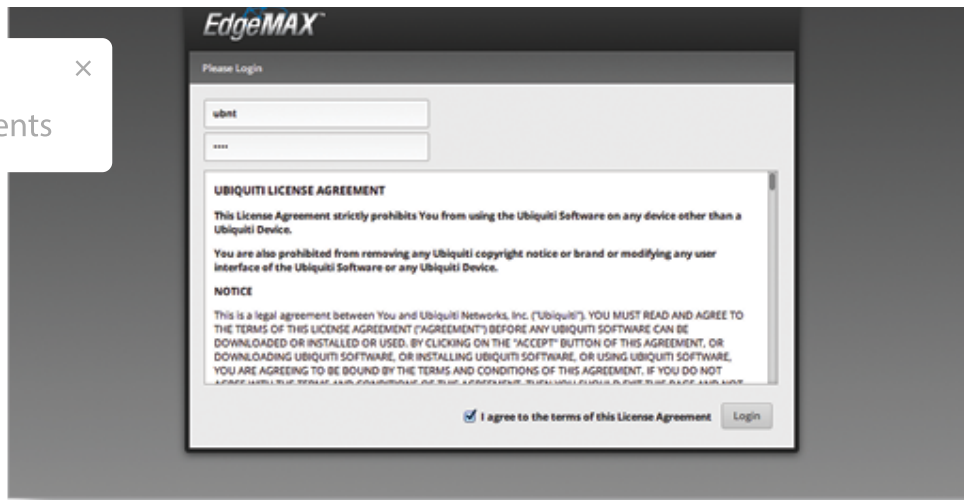
DHCP

1. Connect an Ethernet cable from eth1 on the EdgeRouter to a LAN segment that has an existing DHCP server.



2. To check the IP address of the EdgeRouter, use one of the following methods:
 - Set up the DHCP server to provide a specific IP address to the EdgeRouter based on its MAC address (on the label).
 - Let the EdgeRouter obtain an IP address and then check the DHCP server to see which IP address was assigned.
3. Launch your web browser. Enter the appropriate IP address in the address field. 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.

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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

For more information on PoE configuration, refer to [“Configuring PoE Settings”](#).

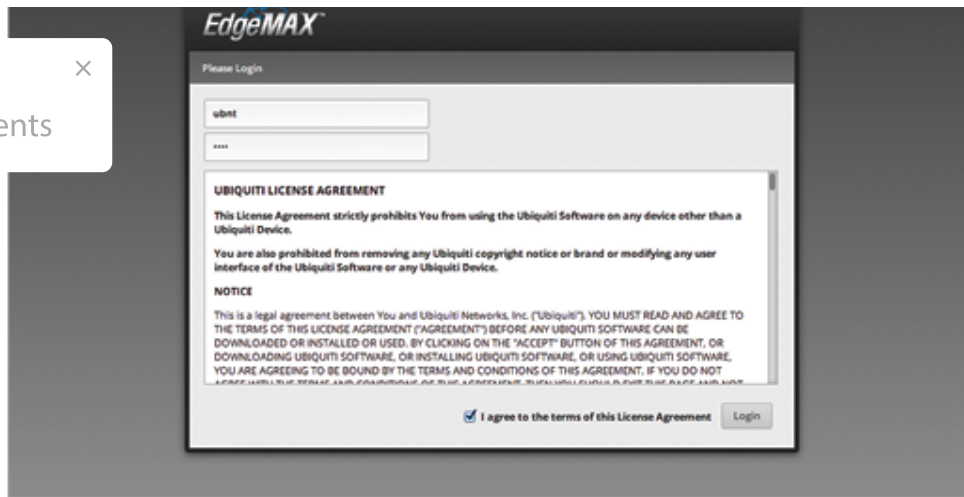
Static IP Address

1. Connect an Ethernet cable from the Ethernet port on your computer to the port labeled eth0 on the EdgeRouter.



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.

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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

For more information on PoE configuration, refer to [“Configuring PoE Settings”](#).

UNMS Management

You can also manage your device using the Ubiquiti Network Management System. UNMS™ lets you configure, monitor, upgrade, and back up your devices using a single application. Get started at www.unms.com

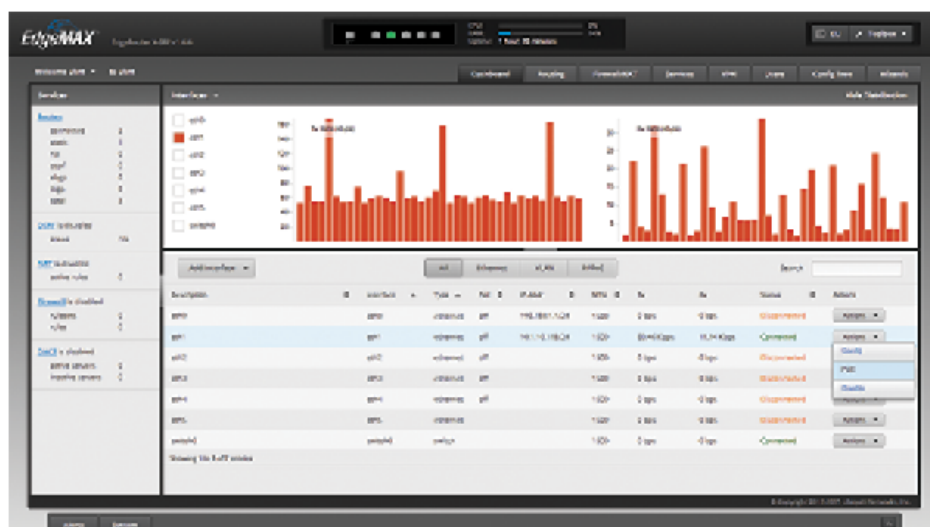
Configuring PoE Settings

The PoE setting for ports eth0-eth4 is set to Off by default.



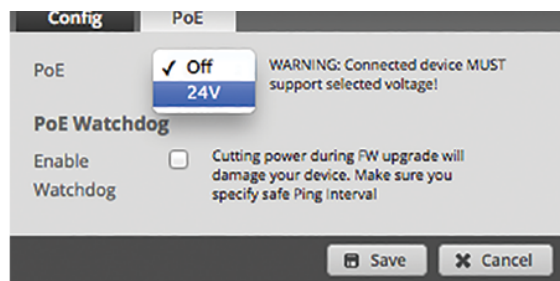
WARNING: Before activating 24V passive PoE, ensure that the connected device supports PoE and the supplied voltage.

1. On the Dashboard screen, go to Actions > PoE for the interface you want to configure.



2. Select Off or 24V from the PoE drop-down menu.

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3. Click Save.

For more information, refer to the EdgeOS User Guide, which is available at ui.com/download/edgemax

Specifications

ER-X-SFP	
Dimensions	142 x 75 x 23 mm (5.59 x 2.95 x 0.91")
Weight	215 g (7.58 oz)
Max. Power Consumption	5W
Max. Total PoE Output	50W @ 24V
PoE Output	Passive 24V (Pins 4, 5+; 7, 8-)
Power Input	24VDC, 2.5A Power Adapter (Included)
Power Supply	External AC/DC Adapter
Supported Voltage Range	9 to 30VDC
Button	Reset
LEDs	Power, Link/Activity (6), PoE (5)
Processor	Dual-Core 880 MHz, MIPS1004Kc
System Memory	256 MB DDR3 RAM
Code Storage	256 MB NAND
Wall-Mount	Yes
Networking Interfaces	
Data/PoE Passthrough Port	(5) 10/100/1000 RJ45 Port
Data Port	(1) 100/1000 SFP Port
Operating Temperature	-10 to 45° C (14 to 113° F)
Operating Humidity	10 - 90% Noncondensing
Certifications	CE, FCC, IC

Safety Notices

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

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× To reduce the risk of fire or electric shock, do not expose this product to rain or



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
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

required to correct the interference at his own expense.

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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

