



Package Contents



EdgeRouter X



Power Adapter (12V, 0.5A)

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. To enhance ESD protection, attach a ground wire (not included) to the back panel of the EdgeRouter.

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.

Power Options

The EdgeRouter can be powered by either method:

- Power adapter
- 24V passive PoE on the eth0/PoE In port

Passive PoE output on port eth4/PoE Out works as a passthrough and depends on the input power source.

If the included Power Adapter (12V, 0.5A) is used, there may not be sufficient passthrough to power another device because the EdgeRouter can consume up to 5 watts on its own.

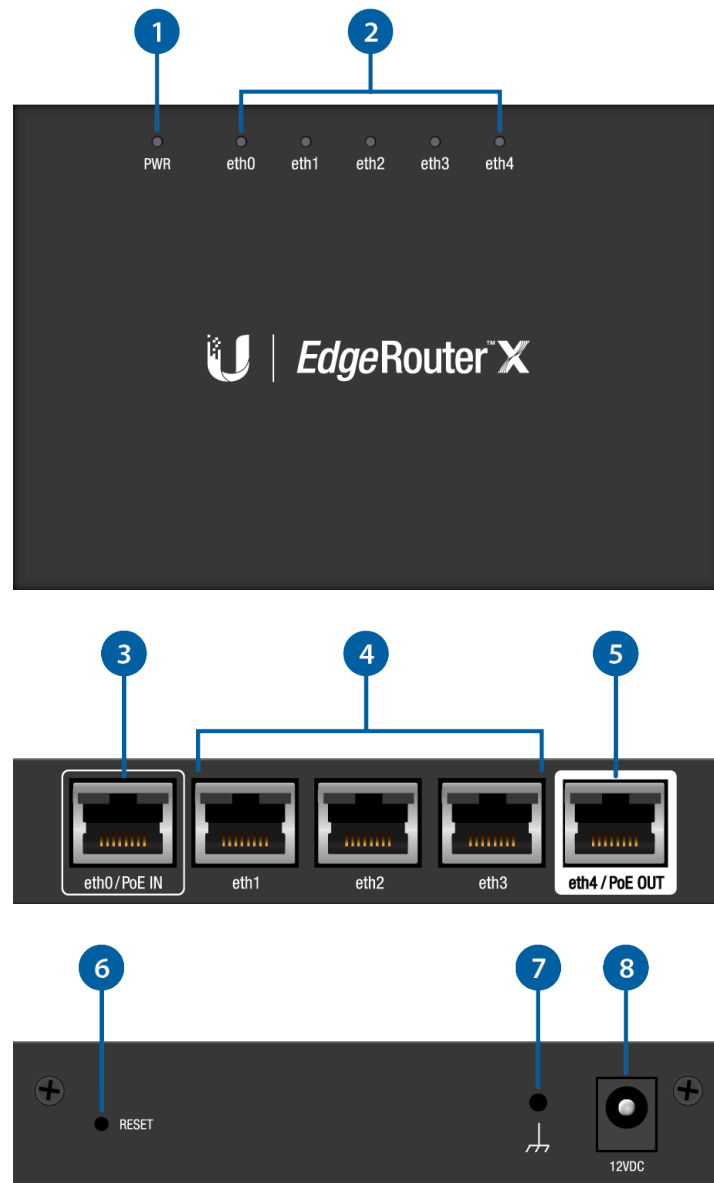
We recommend using a more powerful input power source (not included); here are a few examples of viable power input options for passive PoE passthrough:

ER-X Quick Start Guide

24V passive PoE (on eth0/PoE In)*	≈23V, 5W
12V, 1A (ERLite-3 Power Adapter)	≈11V, 5W
24V, 2.5A (ERPoe-5 Power Adapter)	≈23V, 11W

* Not compatible with 24V, 1A Gigabit PoE Adapter.

Hardware Overview



1 Power LED	
Off	Power Off
Green	Power On

Off	No Link
Green	Link Established at 10/100/1000 Mbps Flashing Indicates Activity
3 eth0/PoE In Port	
RJ45 port accepts 24V passive PoE and supports a 10/100/1000 Ethernet connection.	
4 eth1 - eth3 Ports	
RJ45 ports support 10/100/1000 Ethernet connections.	
5 eth4/PoE Out Port	
RJ45 port supports passive PoE passthrough and a 10/100/1000 Ethernet connection.	
6 Reset Button	
Click here to learn how to reset the EdgeRouter to factory defaults.	
7 Ground	
ESD grounding for enhanced ESD protection. The ground wire and screw with washer are not included (recommended screw size: M3-0.5 x 4 mm).	
8 Power Port	
Connect the Power Adapter.	

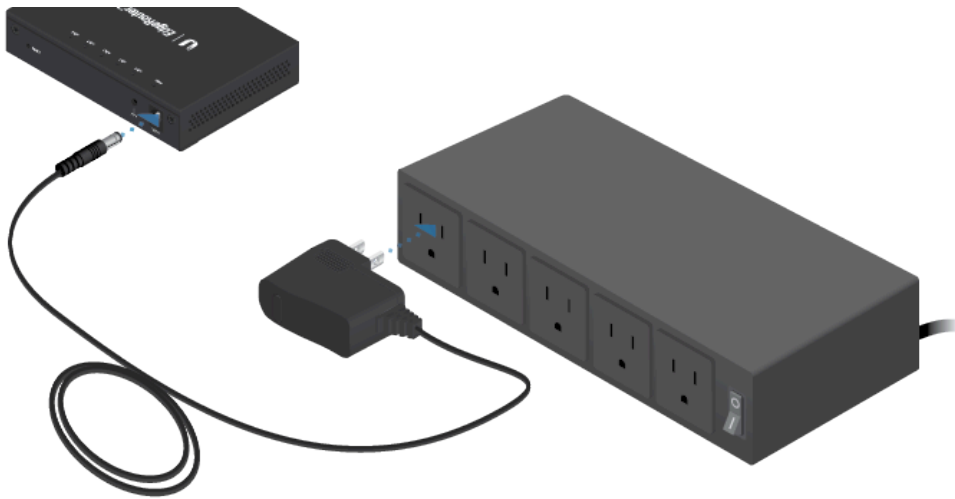
Connecting Power

Follow the appropriate instructions:

Connecting Power Using the Power Adapter



ER-X Quick Start Guide



Connecting Power Using PoE



OR



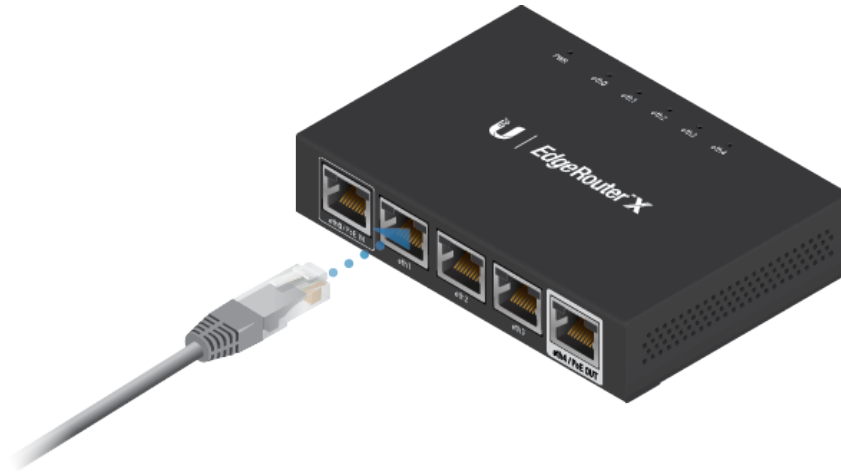
Accessing the EdgeOS Configuration Interface

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



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.

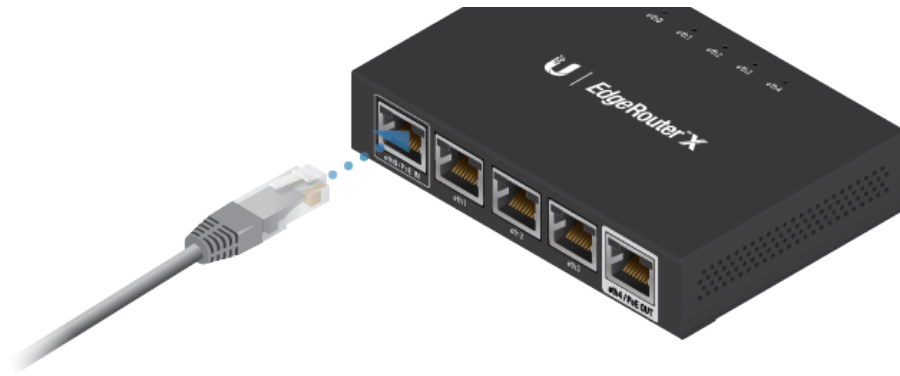
The EdgeOS Configuration Interface will appear, allowing you to customize your settings as needed. For more information, refer to the EdgeOS User Guide, which is available at ui.com/download/edgemax

Static IP Address

1. Connect an Ethernet cable from the Ethernet port on your computer to the port labeled eth0/PoE In on the EdgeRouter. If you are using PoE, then connect your computer to the EdgeRouter via a PoE switch or to the adapter's LAN port.



ER-X Quick Start Guide



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

UISP Management

You can also manage your device using the Ubiquiti Internet Service Provider. UISP™ lets you configure, monitor, upgrade, and back up your devices using a single application. Get started at uisp.ui.com

Specifications

ER-X	
Dimensions	110 x 75 x 22 mm (4.33 x 2.95 x 0.87")
Weight	175g (6.17 oz)
Max. Power Consumption	5W
Power Input	12VDC, 0.5A Power Adapter (Included) or 24V Passive PoE
Power Supply	External AC/DC Adapter
Supported Voltage Range	9 to 30VDC
Button	Reset
LED	Power, Ethernet 0-4
Processor	Dual-Core 880 MHz, MIPS1004Kc
System Memory	256 MB DDR3 RAM

ER-X Quick Start Guide

Code Storage	250 MB NAND
Wall-Mount	Yes
Networking Interfaces	
Data/PoE Input Port	(1) 10/100/1000 RJ45 Port
Data Ports	(3) 10/100/1000 RJ45 Ports
Data/PoE Passthrough Port	(1) 10/100/1000 RJ45 Port
Operating Temperature	-10 to 45° C (14 to 113° F)
Operating Humidity	10 to 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.



WARNING: Failure to provide proper ventilation may cause fire hazard. Keep at least 20 mm of clearance next to the ventilation holes for adequate airflow.



WARNING: To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.



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.

- 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.

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.





Declaration of Conformity

Online Resources

