# ER-X-SFP Quick Start Guide

## Package Contents

EdgeRouter X SFP

Power adapter (24V, 2.5A)

Power cable

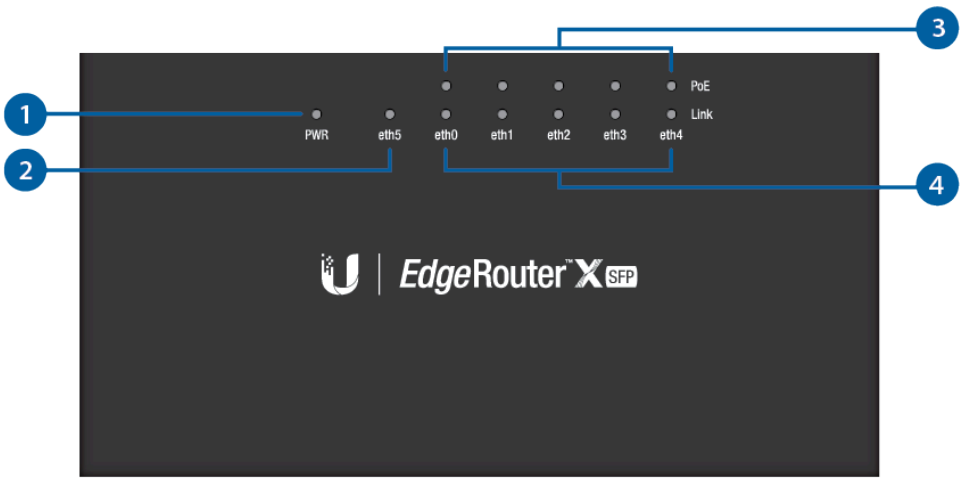
## Installation requirements

- For indoor applications, use Category 5 (or higher) UTP cabling certified for indoor use.
- For outdoor applications, Category 5 (or higher) shielded cabling must be used for all Ethernet connections and must be connected to the AC ground of the power supply.

  We recommend that you protect your networks from harmful outdoor environments and electrostatic discharge phenomena with Ubiquiti's industrial-grade Ethernet shielded cable. For more details, please visit: ui.com/toughcable

Note: Although cabling can be routed outside, the EdgeRouter must be stored inside a protective enclosure.

## Hardware Description



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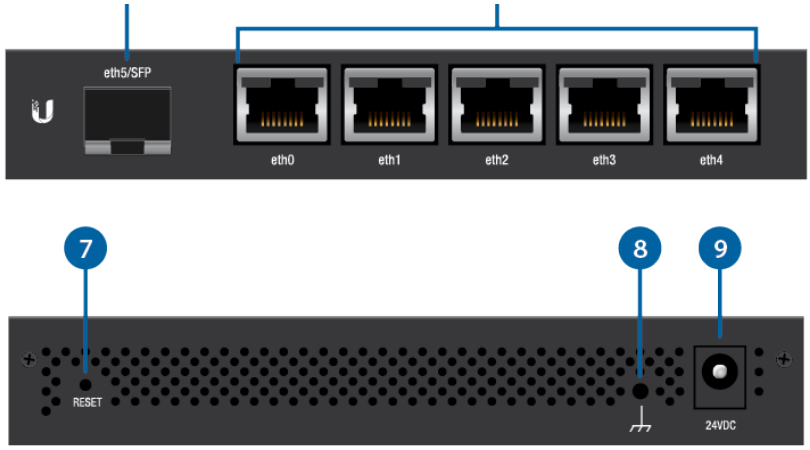


| | |
|---|---|
| 1 Power LED | |
| Disabled | Disabled |
| Green | Activated |
| 2 Link/Activity LED (eth5 port) | |
| Disabled | Not connected |
| Green | 100/1000 Mbps (1 Gbps) Link<br>Blinking indicates activity |
| 3 PoE LED (ports eth0-eth4) | |
| Disabled | Without PoE |
| Green | 24V Passive |
| 4 Link/Activity LED (ports eth0-eth4) | |
| Disabled | Not connected |
| Green | 10/100/1000 Mbps Link<br>Blinking indicates activity |
| 5 eth5/SFP port | |
| The SFP port is hot-swappable and supports 100Mbps or Gigabit fiber SFP modules. | |
| 6 Ports eth0-eth4 | |
| RJ45 ports support 24V passive PoE output and 10/100/1000 Ethernet | |

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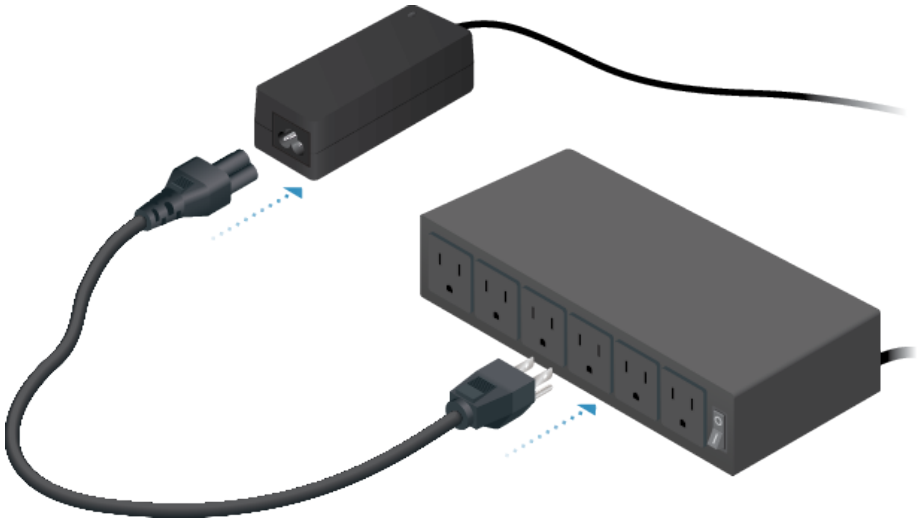
| |
|---|
| 7 Reset button |
| Click here for information on how to reset the EdgePoint to factory defaults. |
| 8 Grounding |
| ESD grounding for enhanced ESD protection. Ground wire and screw with washer are not included (Recommended screw size: M3-0.5x4mm). |
| 9 Power port |
| Connect the power adapter. |

# Hardware Installation

## Connecting the power supply

1.

2.



## Ethernet connection

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## SFP connection (optional)

1.

2.

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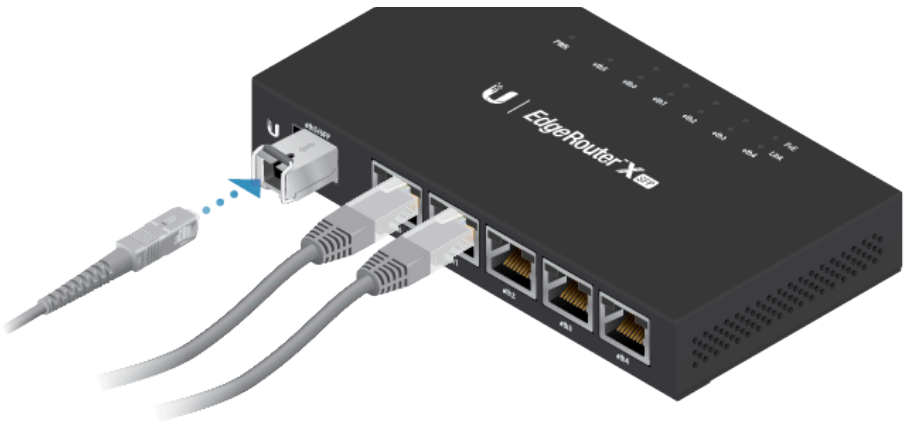

For more information on compatible fiber SFP modules, please visit: ubnt.link/SFP_DAC_Compatibility

# Accessing the EdgeOS Configuration Interface

The EdgeOS® configuration interface can be accessed via DHCP or static IP address assignment. By default, eth1 is configured as a DHCP client , while eth0 is assigned a static IP address 192.168.1.1. To configure the EdgeRouter, go 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 already has a DHCP server.

2. To check the IP address of the EdgeRouter, use one of the following methods:
   - Configure 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 what IP address was assigned.
3. Launch your web browser. Enter the correct 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

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as needed. For more information, see the EdgeOS user guide, available at ui.com/download/edgemax

For more information about configuring PoE, see "Configuring PoE Settings" .

## Static IP Address

1. Connect an Ethernet cable from the computer's Ethernet port to the eth0 port on the EdgeRouter.

2. Configure the Ethernet adapter on your host system with a static IP address in the 192.168.1.x subnet.
3. Launch your web browser. Type https://192.168.1.1 in the address bar 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 settings interface will open, allowing you to customize your settings as needed. For more information, see the EdgeOS user guide, available at ui.com/download/edgemax

For more information about configuring PoE, see "Configuring PoE Settings" .

# UISP Management

You can also manage your device using the Ubiquiti Internet Service Provider network management system. UISP ™ allows you to backup, configure, monitor and update your devices from a single application. To get started, go to uisp.ui.com

## Configuring PoE Settings

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

WARNING: Before enabling 24V passive PoE, make sure the connected device supports PoE and the supplied voltage.

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

For more information, see the EdgeOS User Guide, available at ui.com/download/edgemax

# Specs

| ER-X-SFP | |
|---|---|
| Dimensions | 142 x 75 x 23mm (5.59 x 2.95 x 0.91") |
| Weight | 215 g (7.58 oz) |
| Maximum power consumption | 5W |
| Maximum on PoE output | 50W at 24V |
| PoE output | 24V Passive (sockets: 4, 5+; 7, 8-) |
| Power input | 24V DC, 2.5A power adapter (included) |
| Power supply | External AC/DC adapter |
| Supported voltage range | 9 - 30 V DC |
| Button | Restore |
| LED lights | Power, Link/Activity (6), PoE (5) |
| Processor | 880MHz dual-core MIPS1004Kc |
| System memory | 256MB DDR3 RAM |
| Code storage | 256MB NAND |
| Wall mounting | Yeah |
| Network interfaces<br>Data Port/PoE Passthrough<br>Data port | <br>(5) 10/100/1000 RJ45 port<br>(1) 100/1000 SFP port |
| Operating temperature | -10° C to 45° C (14° F to 113° F) |
| Operating humidity | 10 - 90% non-condensing |
| Certifications | CE, FCC, IC |

# Safety instructions

1. Please read, follow and retain these instructions.
2. Heed all warnings.
3. Only use devices or accessories specified by the manufacturer.

WARNING: Lack of proper ventilation may result in a risk of fire. Maintain at least 20 mm clearance next to the ventilation holes for proper ventilation.

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WARNING: Do not use this product in a location where it may be submerged in water.

WARNING: Avoid using this product during an electrical storm. There is a remote possibility of electric shock from lightning.

# Electrical Safety Information

1. It is mandatory to comply with the current, frequency and voltage requirements indicated on the manufacturer's label. Connection to a power source other than those specified may result in incorrect operation, damage to the equipment or risk of fire if the limitations are not respected.
2. This equipment contains no operator serviceable parts. Only a qualified service technician should perform service.
3. This equipment is supplied with a detachable power supply cord which has an integral safety earth wire designed to be connected to a safety earth socket.
   a. Do not substitute the power cord with anything other than the approved type provided. Never use an adapter plug to connect to a two-wire outlet, as this will disrupt the continuity of the ground wire.
   b. The equipment requires the use of the ground wire as part of the safety certification. Modification or improper use may result in a shock hazard, which could result in serious injury or death.
   c. If you have any doubts about the installation, contact a qualified electrician or the manufacturer before connecting the equipment.
   d. The AC adapter indicated provides a safety earth connection. For installation in a building, adequate back-up short-circuit protection must be provided.
   e. A protective connection must be installed in accordance with national wiring rules and regulations.

# Limited warranty

ui.com/support/warranty

The limited warranty requires the use of arbitration to resolve disputes on a case-by-case basis and, where appropriate, specifies arbitration rather than 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

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 a 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. Operation 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 of Canada

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

## Australia and New Zealand

Warning: This equipment complies with Class A of CISPR 32. In a residential environment, it may cause radio interference.

## CE marking

The CE marking on this product indicates that the product complies with all applicable directives.

CE

## WEEE Compliance Statement

## Declaration of conformity

## Online Resources

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