Package Contents

EdgePoint Router

Metal Strap

Gigabit PoE (24V, 1.25A) with Mounting Bracket

Power Cord

Installation Requirements

- Phillips screwdriver
- 7 mm socket wrench
- Ground wire – min. 10 AWG (5 mm^2) 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 input or PoE input is used at any one time. If both input types are connected, only the input type with the highest voltage will be used; the other can be used as a backup. Any of the input options can power any of the output options.

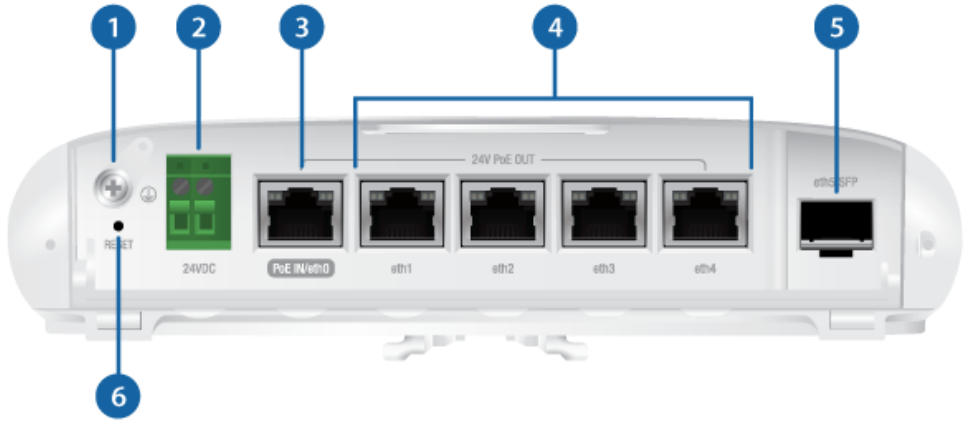
Power Input Options

- 24VDC, 3A
- 24V, 1.4A on eth0 (PoE In)

Power Output Options

The number of devices that can be powered depends on the power consumption of the specific devices and the power input option. For example, if you provide 24VDC, 1.25A, then you have 30W of power. If the EdgePoint uses 7W (Max. Power Consumption), then you have 23W available for passive PoE output. Please check product specifications for the power consumption values to use in your calculations.

Hardware Overview



1 Ground Bonding Point
Used to secure a ground wire (not included).
2 DC Input
Terminal block connector accepts 24VDC, 3A input to power the EdgePoint and passive PoE output.
3 PoE In/eth0 Port (24V PoE Out)
The RJ45 port supports 10/100/1000 Ethernet connections and has PoE input or output

- **PoE Output** You can configure the port for 24V 2-pair PoE output.

Do NOT configure port eth0 in PoE output mode if you are using it as a PoE input power source.

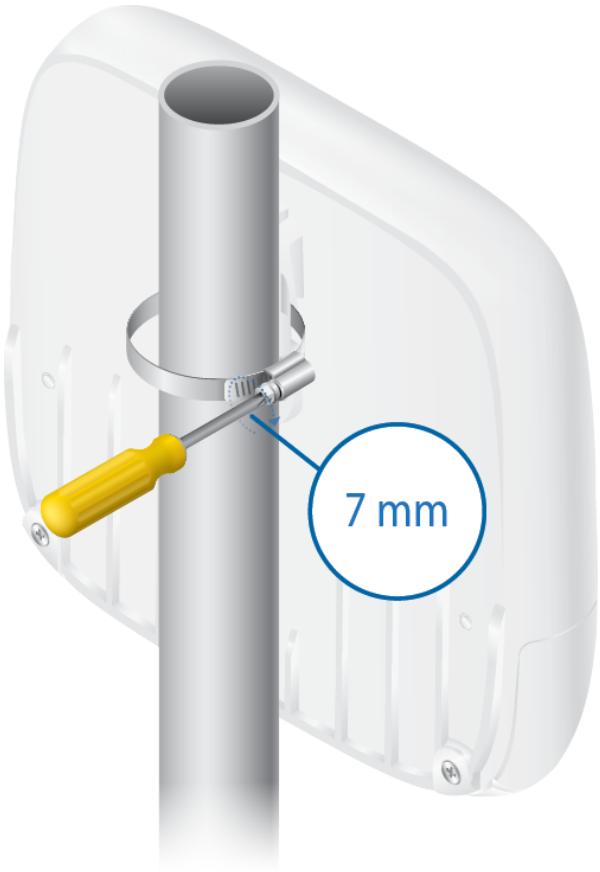
4 eth1 - eth4 Ports (24V PoE Out)	
RJ45 ports support 10/100/1000 Ethernet connections and passive 24V, 2-pair PoE output for airMAX® devices.	
5 eth5/SFP Port	
SFP port is hot-swappable and supports Gigabit fiber SFP modules. **Note:** For installations with extreme temperatures, please use industrial-grade fiber SFP modules.	
6 Reset Button	
Click here to learn how to reset the EdgePoint to factory defaults.	
7 Power LED	
Green	EdgePoint Powered On
8 PoE Output LED (eth1 - eth4 Ports)	
Off	No PoE
Green	24V Passive
9 Speed/Link/Activity LED (eth0 - eth5/SFP Ports)	
Off	No Link
Green	10/100/1000 Mbps (1 Gbps) Link Flashing Indicates Activity

Hardware Installation

Pole Mounting

1.

2.



3. Proceed to "Grounding the EdgePoint".

Removing the Port Cover

1.

2.

Note: Depending on which cables will be connected, remove the corresponding cable feed plugs from the port cover.

Grounding the EdgePoint

Connecting Ethernet

Optional

Note: Cable ties are not included.

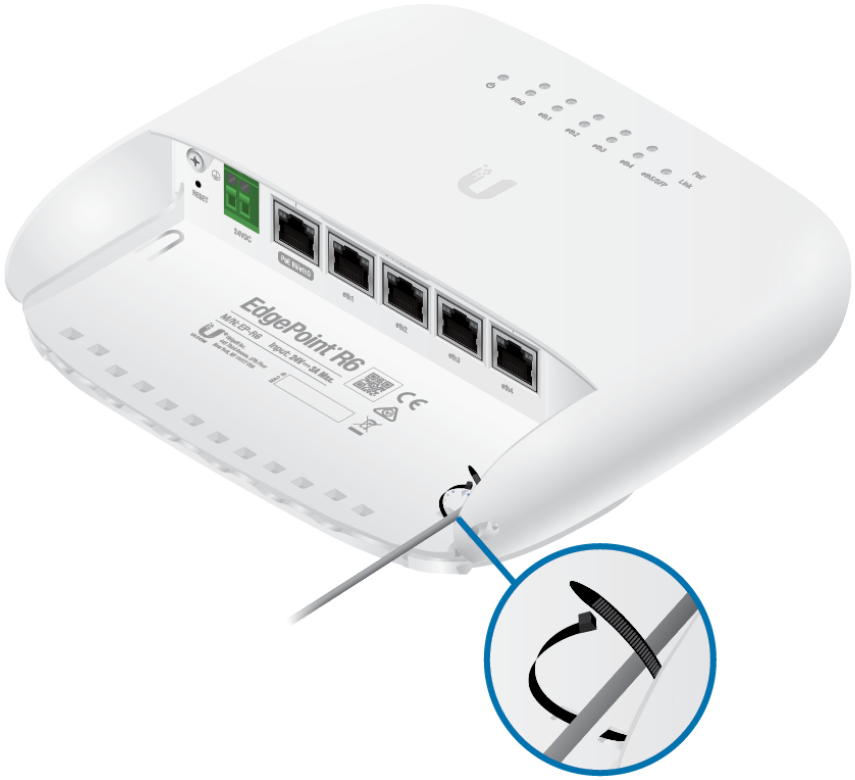
Connecting SFP

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

1.

2.

3.



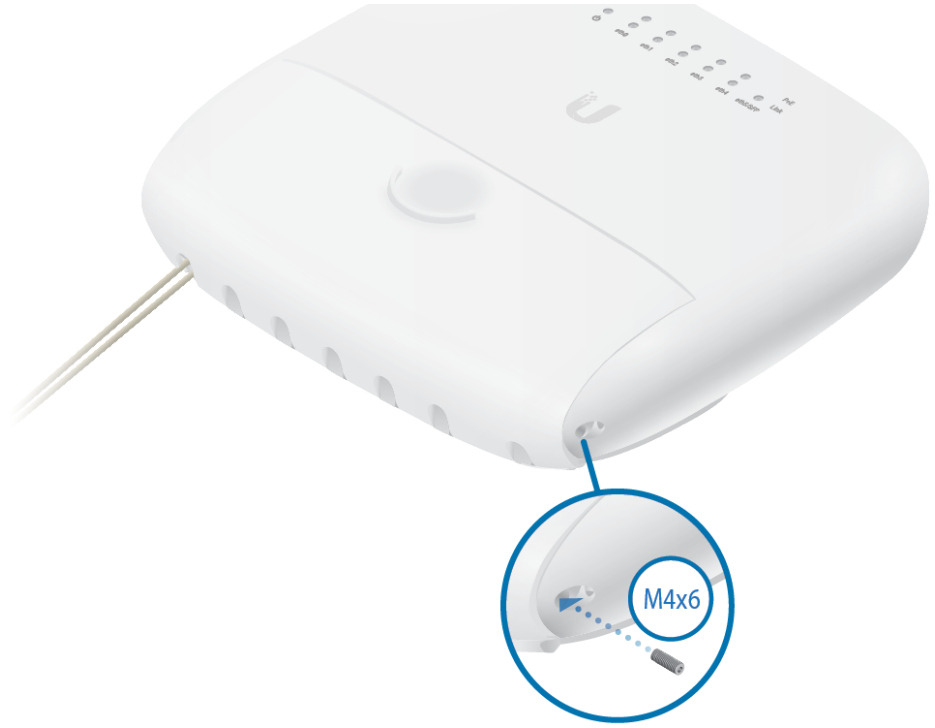
Connecting Power

Connecting to the 24VDC Input

1.

2.

Optional



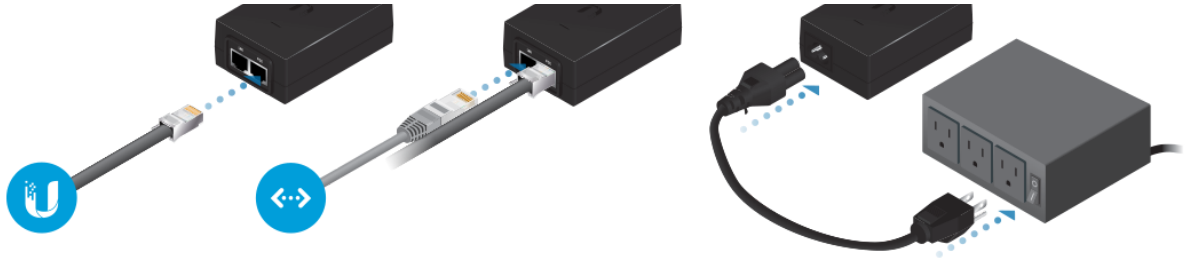
Note: The set screw is not included.

Connecting Power Using PoE

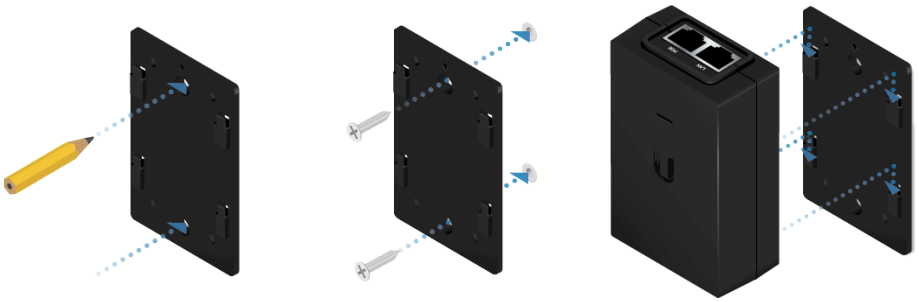
Note: Do NOT configure port eth0 in PoE output mode if you are using it as a PoE input power source.

1.

2.



Optional



3.

Optional

Note: The set screw is not included.

Accessing the EdgeOS Configuration Interface

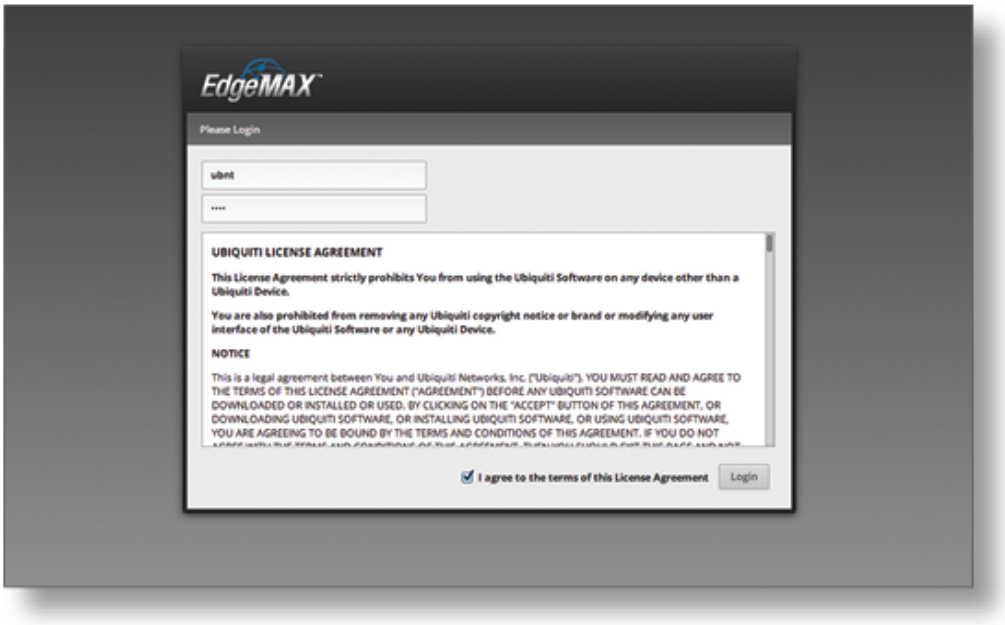
The EdgeOS® configuration interface can be accessed via DHCP or static IP address assignment. By default, eth1 is set up as a DHCP client, while eth0 is assigned a static IP address of 192.168.1.1. To configure the EdgePoint, proceed to the appropriate section: DHCP or "Static IP Address".

DHCP

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.



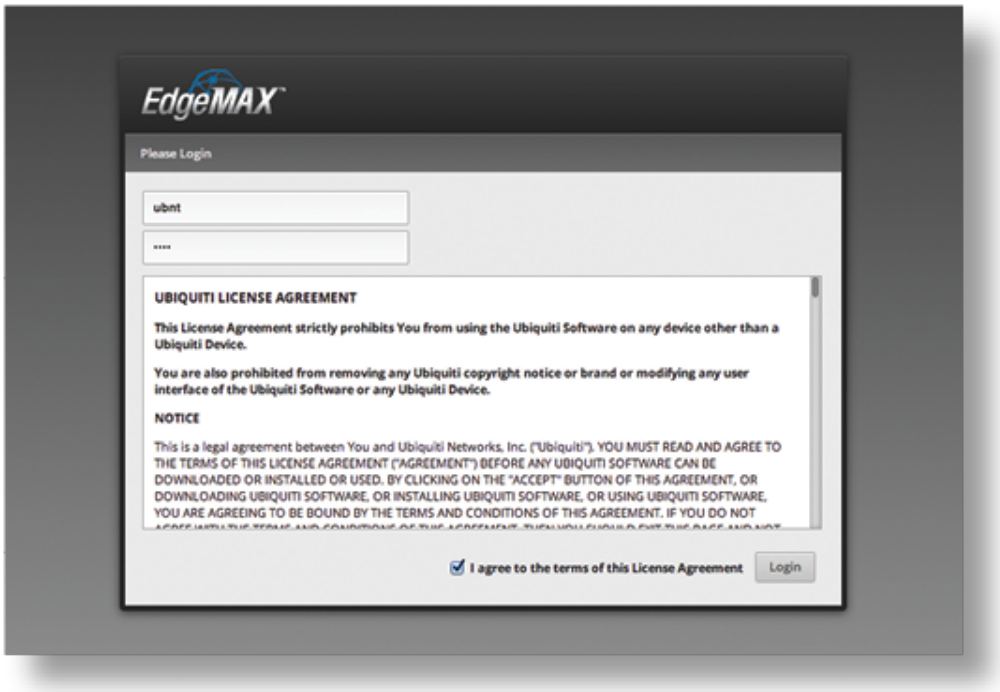
The EdgeOS Configuration Interface will appear, allowing you to customize your settings as needed. For more information, refer to the EdgeOS User Guide, which is available at ui.com/download/edgemax

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 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

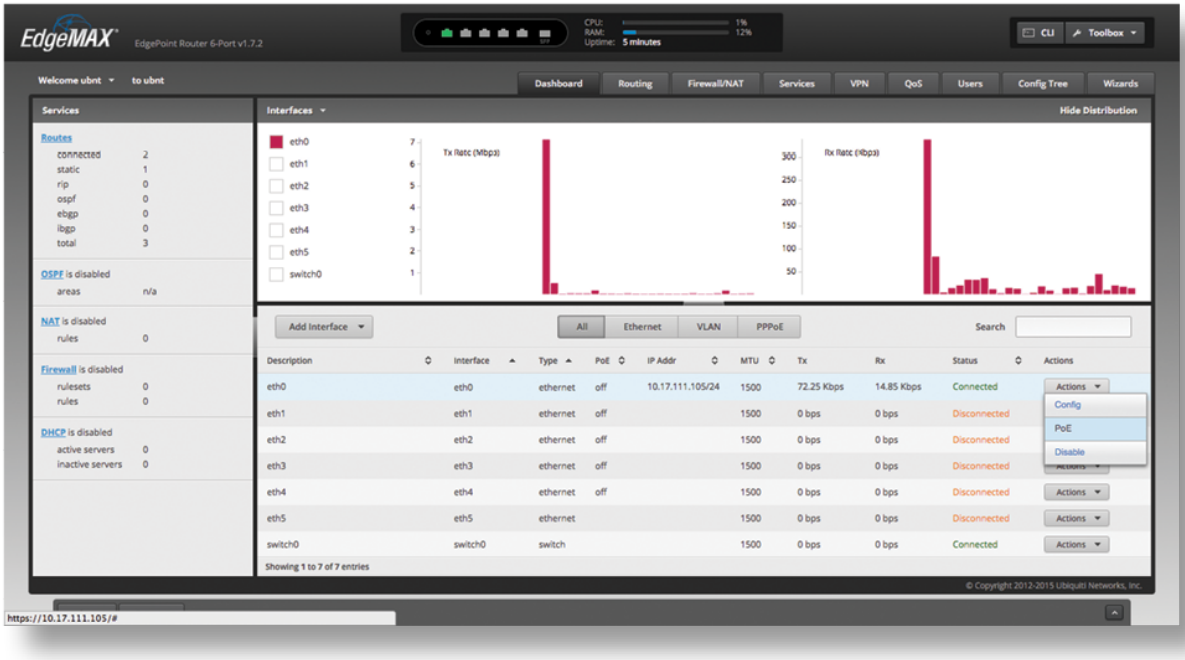
For more information on PoE configuration, refer to "Configuring PoE Settings".

UNMS Management

You can manage your device using UNMS, which lets you configure, monitor, upgrade, and back up your devices using a single application. Get started at www.unms.com

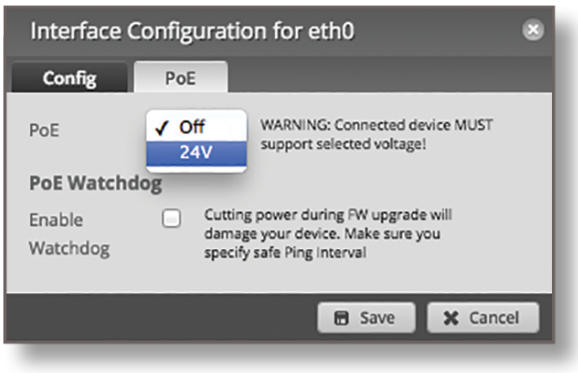
Configuring PoE Settings

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



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

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.



3. Click Save.

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

Specifications

EP-R6	
Dimensions	188.6 x 177.1 x 49.8 mm (7.43 x 6.97 x 1.96")
Weight	605 g (1.33 lb)
Max. Power Consumption	7W (Excludes PoE Output)
Power Input	(1) DC Terminal Block or (1) RJ45 (eth0) (Self-Correcting Polarity Protection on DC Terminal Block Only, Diode ORed Protection on All Power Inputs)

Power Supply	Min. 24V / 0.5A (Excludes PoE Output Power)
VDC Input	24V, 3A
Passive PoE Input	(1) 24V / 1.4A, 4-Pair (+1, 2, 4, 5; -3, 6, 7, 8) Passive PoE, eth0 (Do NOT configure eth0 in PoE output mode if you are using a PoE input power source.)
Passive PoE Output	(5) 24V / 0.7A, 2-Pair (+4, 5; -7, 8) Passive PoE, eth0 to eth4
Power Monitoring	(1) DC Terminal Block, Input Power (1) RJ45, eth0, Input Power
Supported Voltage Range	16 to 30VDC
Button	Reset
LEDs System eth0 to eth4 eth5/SFP	 Power Speed/Link/Activity, PoE Speed/Link/Activity
Ports Data Ports	 (5) 10/100/1000 RJ45 Ports (1) 1 Gbps SFP Port
Processor	Dual-Core 880 MHz, MIPS1004Kc with Hardware Acceleration for Packet Processing
System Memory	256 MB DDR3-1600 RAM
Code Storage	256 MB NAND
Pole/Wall Mount	Yes
Operating Temperature	-40 to 65° C (-40 to 149° 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.

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

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 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.

WEEE Compliance Statement

Declaration of Conformity

Online Resources