Package Contents

EdgeSwitch 16XP

Flathead Screws (Qty. 2)

Phillips Screws (Qty. 4)

Cage Nuts (Qty. 4)

Power Cords (Qty. 2)

Installation Requirements

- Phillips and flathead screwdrivers
- Standard-sized, 19" wide rack with an available 1U space
- 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**

IMPORTANT: Although the cabling can be located outdoors, the EdgeSwitch itself should be housed inside a protective enclosure.
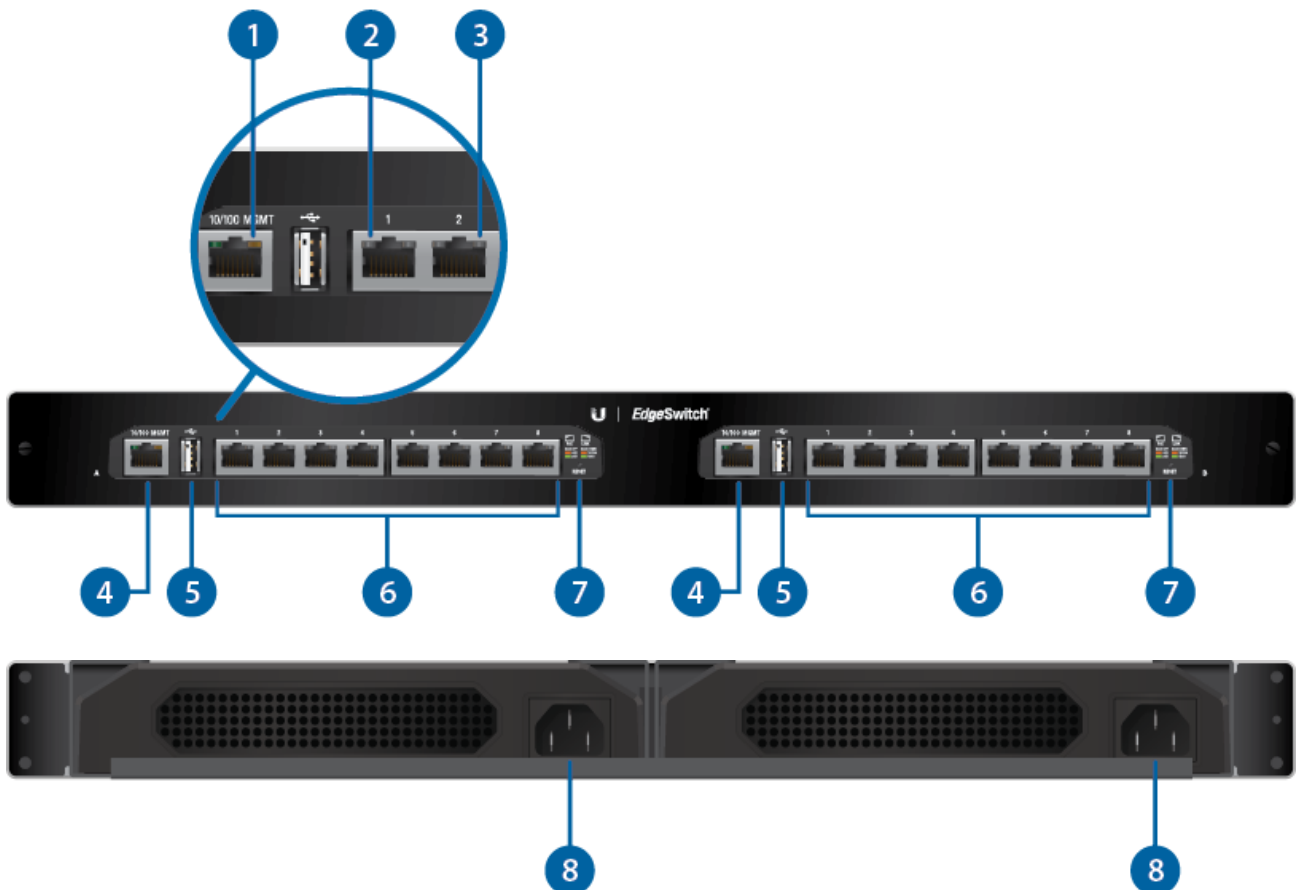
WARNING: To reduce the risk of fire or electric shock, do not expose this EdgeSwitch to rain or moisture.

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.

A and B designate the two 8-Port EdgeSwitch devices housed in the rack. This may be useful for the Location setting on the Device tab in the Configuration Interface.

1	Management Power/Link LED	
Off	No Power/No Link
Amber	After bootup, the LED indicates power. After an initial link is established, the LED indicates a 10/100 Mbps connection. If the link terminates, the LED turns off until a link is re-established. If the unit reboots, the LED will again indicate power until a link is established.
2	RJ45 PoE LED (Ports 1 - 8)	
Off	No Power over Ethernet
Green	24V Power over Ethernet
Amber	48V Power over Ethernet
3	RJ45 Speed/Link/Act LED (Ports 1 - 8)	
Off	No link
Amber	Link established at 10/100 Mbps
Amber Flashing	Link activity at 10/100 Mbps

Green Flashing	Link activity at 1000 Mbps

4 **Management Port**

10/100 Mbps port used to access the EdgeSwitch Configuration Interface.

5 **USB Port**

Reserved for future use.

6 **RJ45 (Ports 1 - 8)**

10/100/1000 Mbps ports for switching and PoE (also available for management by default).

7 **Reset Button**

To reset to factory defaults, press and hold the Reset button for more than 10 seconds while the unit is powered on.

8 **Power**

Connect the included Power Adapter to the Power port.
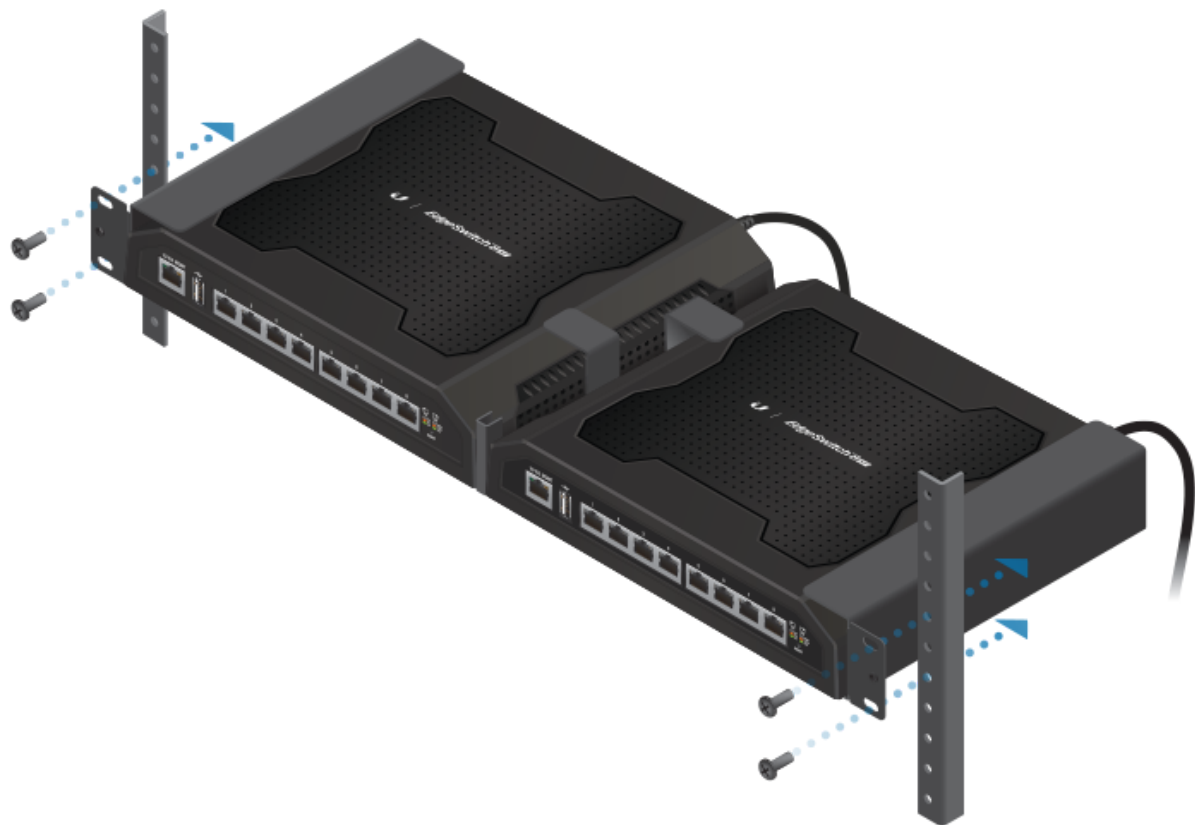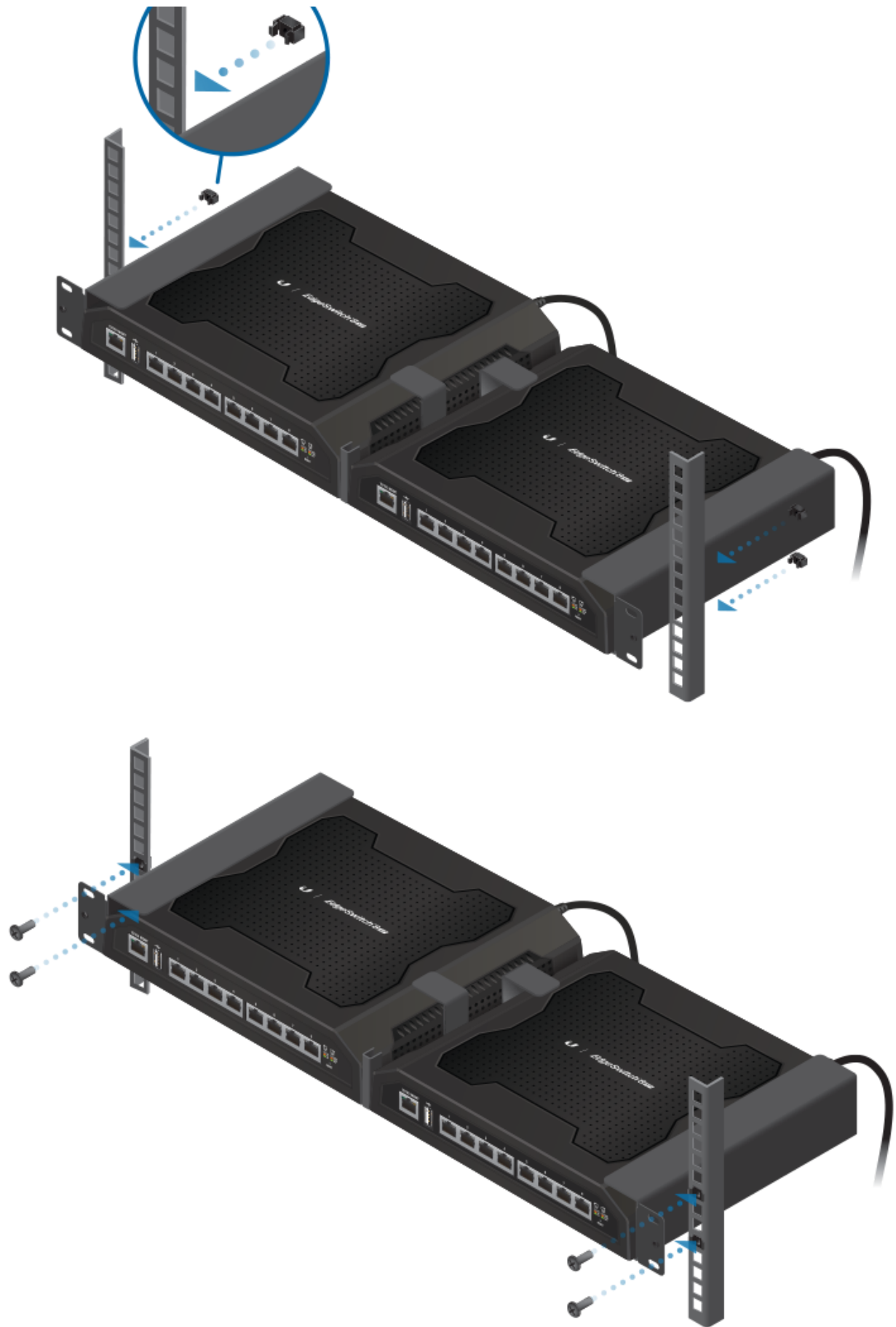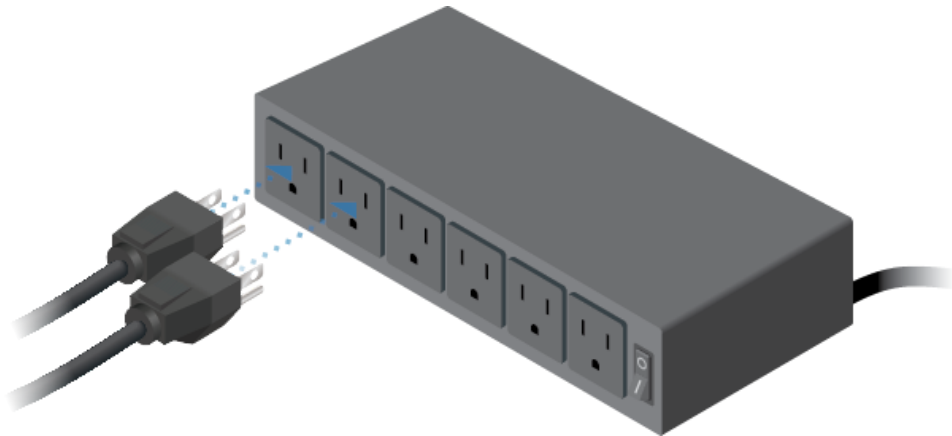
Hardware Installation

1.

2.

3.

OR

4.

5.

Daisy-Chain (Optional)

All data ports are available as uplink ports. If you want to daisy-chain EdgeSwitch A and B, we recommend that you connect an Ethernet cable from port 8 of EdgeSwitch A to port 1 of EdgeSwitch B.

Note: PoE is disabled by default on all numbered ports and is not available on the Management port. To enable PoE on the appropriate ports, use the Ports tab in the Configuration Interface.

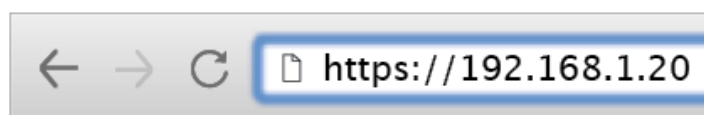## Accessing the Configuration Interface

Connect to the Configuration Interface by performing the following steps:

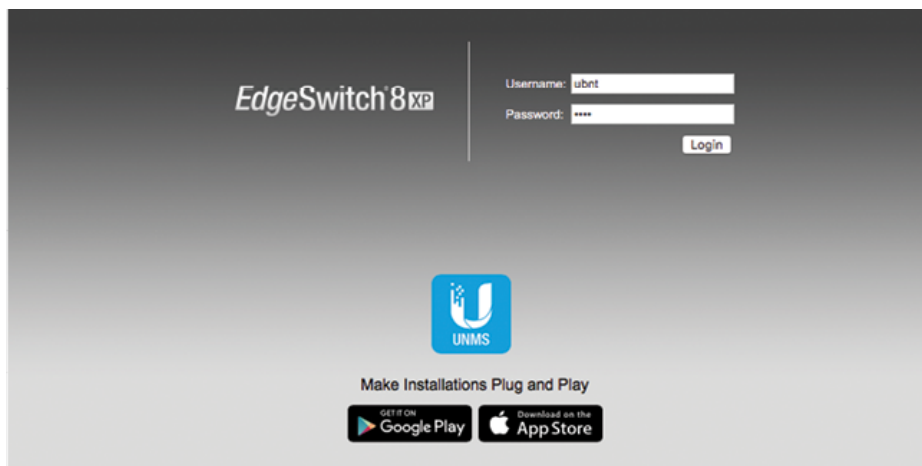1. Ensure that your computer is connected to the Management port on the EdgeSwitch.

Note: By default, you can configure the EdgeSwitch via any port; however, we recommend the Management port. (Access to the Configuration Interface can be limited to the Management port only. You can configure this setting on the Device tab.)

2. Configure the Ethernet adapter on your computer with a static IP address on the 192.168.1.x subnet (e.g., 192.168.1.100).

3. Launch your web browser. Type https://192.168.1.20 in the address field. Press enter (PC) or return (Mac).

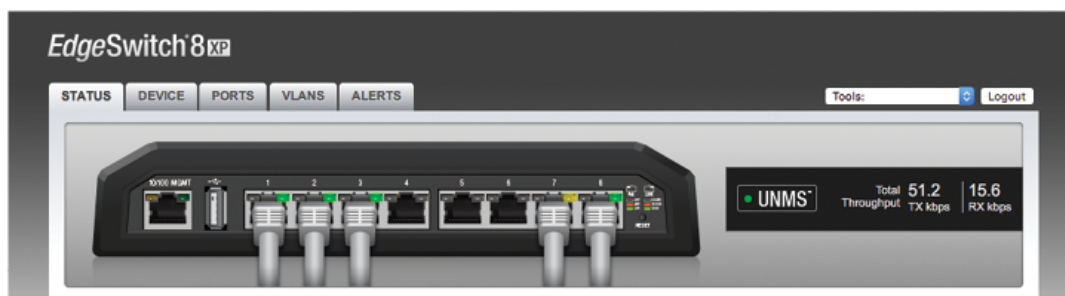4. Enter ubnt in the Username and Password fields. Click Login.

The Configuration Interface will appear, allowing you to customize your settings as needed.

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.
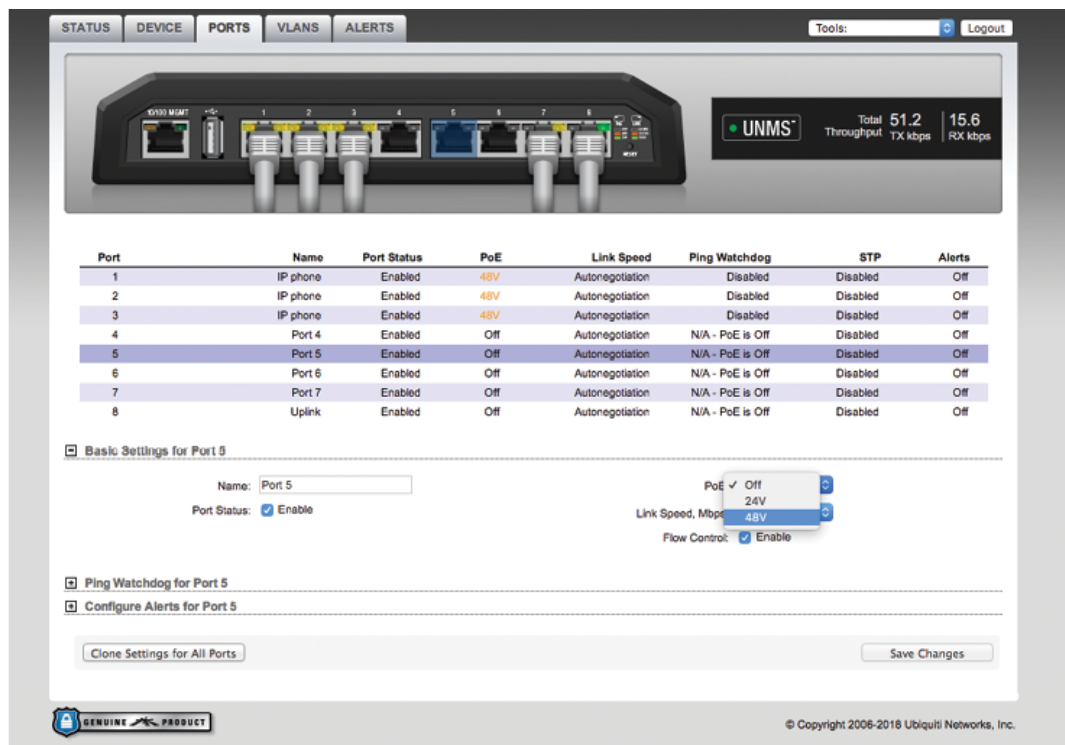
Configuring PoE Settings

WARNING: Before activating PoE, ensure that the connected device supports passive PoE and the supplied voltage. By default, PoE is off on each port.

1. Click the Ports tab.

2. On the Ports tab, select the Ethernet port you want to configure. Select the appropriate PoE Status setting, and then click Save Changes.

The PoE LED on the Ethernet port will confirm the PoE setting.

Specifications

ES-16XP	
Dimensions	480 x 44.5 x 186 mm (18.9 x 1.75 x 7.32")
Weight	3.95 kg (8.71 lb)
Hardware Configuration	(2) 8-Port EdgeSwitch 8XP Devices
Mounting	19" 1U Rack-Mount

8-Port ES-8XP*	
Power Input	100-240VAC
Max. Power Consumption	150W
PoE Out Voltage Range	45-48VDC / 22-24VDC
Max. PoE Wattage Per Data Port	11.5W (24V) 23W (48V)
ESD Rating	±24 kV Air/Contact
PoE Method	Passive
Button	Reset
USB Port	2.0 Type A (Reserved for Future Use)
Processor	MIPS 24K, 400 MHz
System Memory	64 MB
Code Storage	8 MB
Certifications	CE, FCC, IC

Operating Humidity	90% Noncondensing

PoE Configurable Per Port
    Management Port
    Data Ports
	
	N/A
	Off/24V/48V

LEDs Per Port
    Management Port
    Data Ports
	
	Power/Link
	PoE, Speed/Link/Activity

Networking Interfaces
    Management Port
    Data Ports
	
	(1) 10/100 Ethernet Port
	(8) 10/100/1000 Ethernet Ports

* Specifications apply to each 8-Port EdgeSwitch ES-8XP unit.

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.

    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.

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.

$$C \epsilon$$

WEEE Compliance Statement

Declaration of Conformity

Online Resources