

Package Contents



NanoSwitch



Self-Tapping Screw



Metal Straps (Qty. 2)

Installation Requirements

Mounting accessories and drain wire are not included.

Pole-Mounting

- Drill with a 4.5 mm Drill Bit
- 7 mm Socket Wrench or Screwdriver

Wall-Mounting

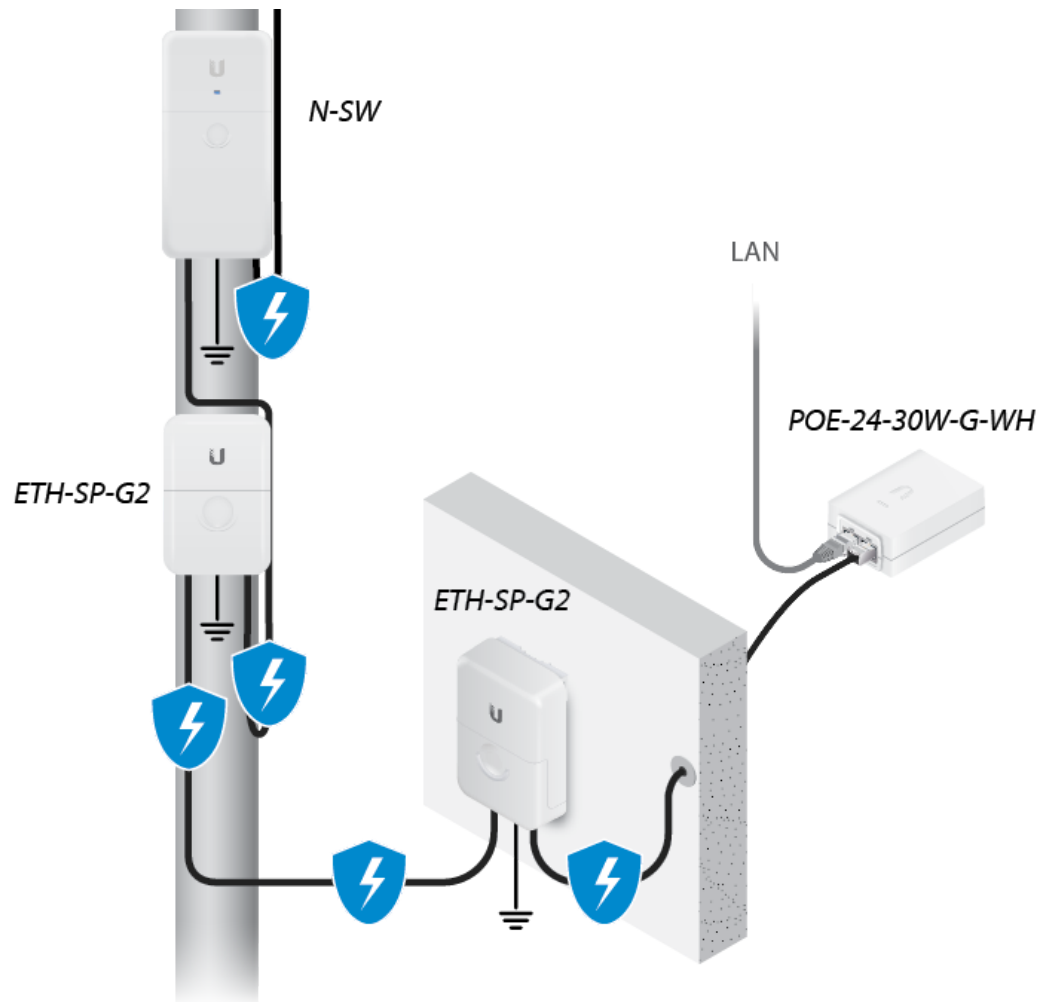
- (2) Screws (≤ 5 mm Screw Head)
- (1) Drain Wire, Optional (≤ 12 AWG, ≤ 1 m)

Cables

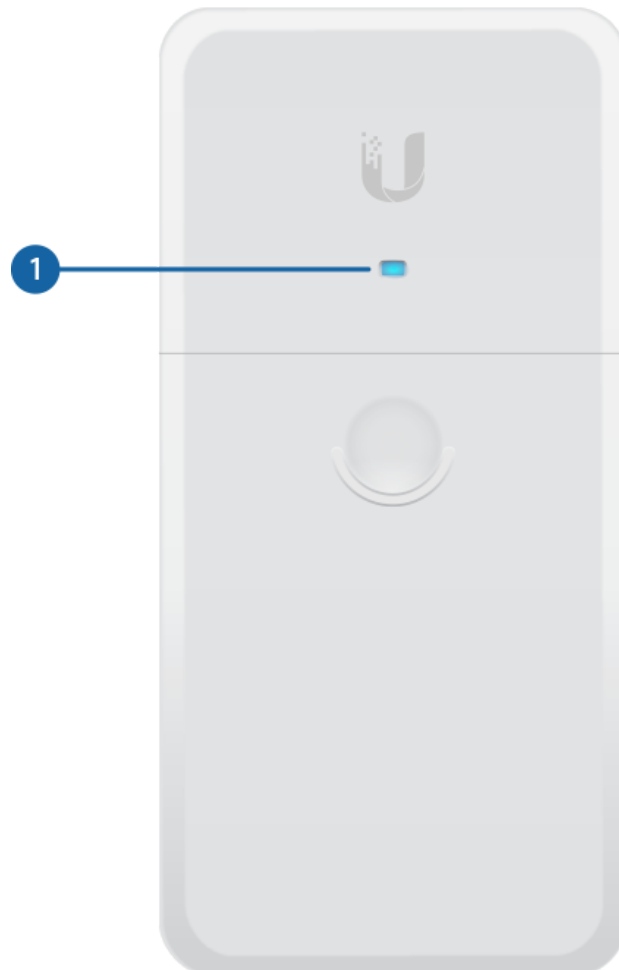
- Shielded Category 5 (or above) cabling with drain wire should be used for all wired Ethernet connections and should be grounded through the AC ground of the PoE.

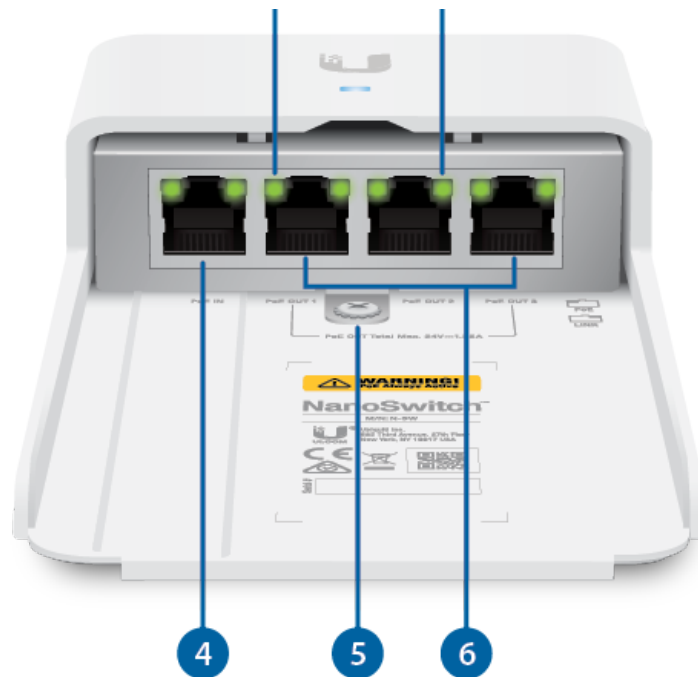
We recommend that you protect your networks from harmful outdoor environments and destructive ESD events with industrial-grade, shielded Ethernet cable from Ubiquiti. For more details, visit: ui.com/toughcable

- Surge protection should be used for all outdoor installations. We recommend that you use two Ethernet Surge Protectors, model ETH-SP-G2, one near the N-SW and the other at the entry point to the building. The ETH-SP-G2 will absorb power surges and safely discharge them into the ground.



Hardware Overview





1 Power LED

The Power LED will light blue when the device is connected to a power source.

2 PoE LED

Green	Active 24V PoE
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3 Link LED

Green	Link Established
	Flashing Indicates Activity

4 PoE In Port

RJ45 port supports 10/100/1000 Ethernet connections and supports 24V, 2-pair passive PoE to power the switch. For maximum power consumption of 30W, we recommend supplying power with the POE-24-30W-G-WH PoE adapter (not included).

5 Ground Bonding Point

The NanoSwitch must be grounded in one of the following ways:

- Use the Self-Tapping Screw to ground the NanoSwitch directly to a grounded metal pole or structure.
- Use the Machine Screw and Nut to attach a drain wire (not included) that is connected to a remote grounding block or structure.

6 PoE Out (Ports 1 - 3)

RJ45 ports support 10/100/1000 Ethernet connections and provide passive 24V, 2-pair PoE passthrough for up to 30W PoE output.



WARNING: PoE is always active. Before connecting a device to a PoE Out port,



WARNING: Do NOT provide more than a total of 24W PoE output (24V, 1A) per port or 30W total output; otherwise this will damage the NanoSwitch.

Connect a Drain Wire (Optional)

If a drain wire is used to ground the NanoSwitch, attach it to the Ground Bonding Point with the Self-Tapping Screw and Nut.



At the installation site, secure the other end of the drain wire to a grounded mast, pole, tower, or grounding bar.

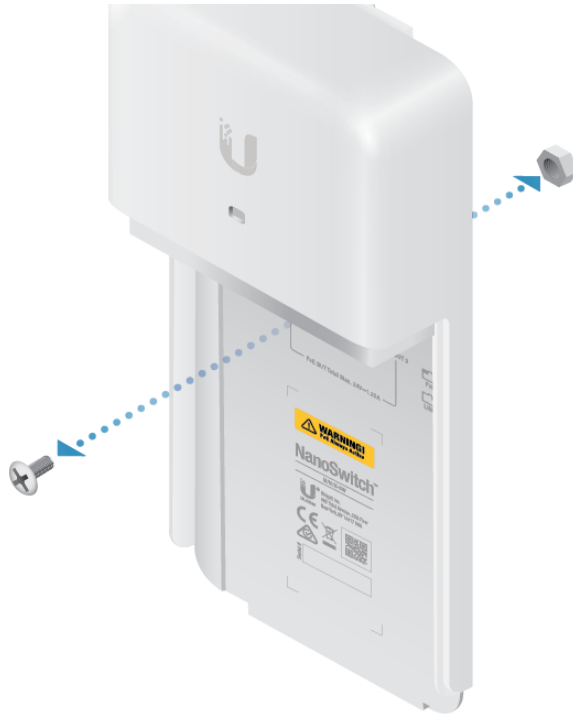
Hardware Installation

Follow the appropriate steps for your installation:

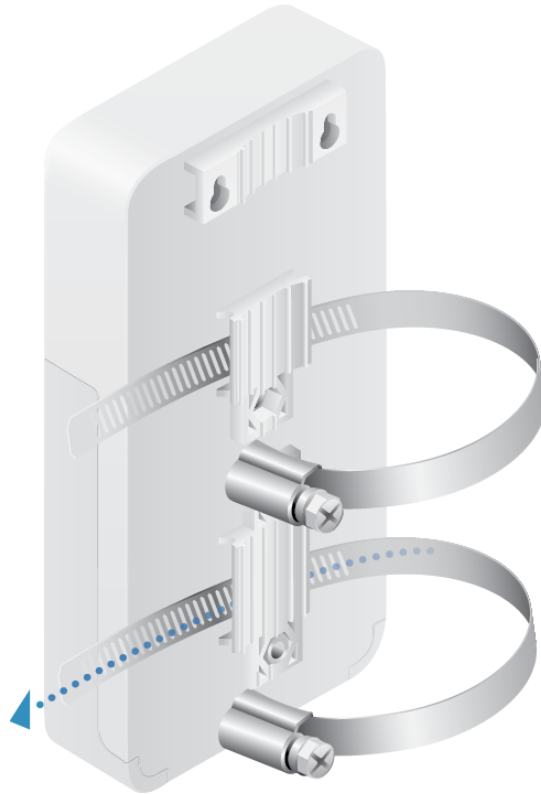
- [“Pole-Mounting”](#)
- [“Wall-Mounting”](#)

Pole-Mounting

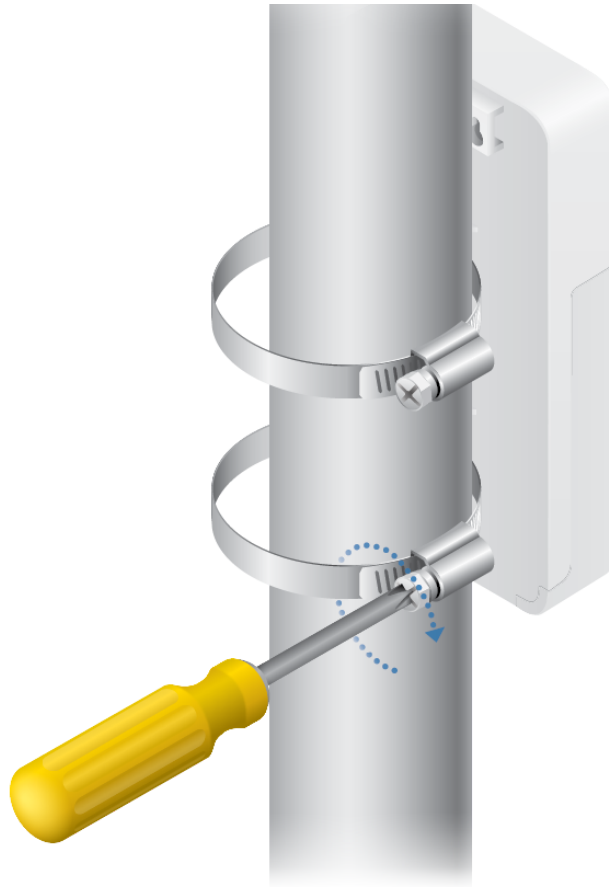
1. If you are using the Self-Tapping Screw for grounding, remove the Machine Screw and Nut:



2.



3.



4.



Note: If you are using a drain wire for grounding, proceed to [“Connecting Power”](#).

5.



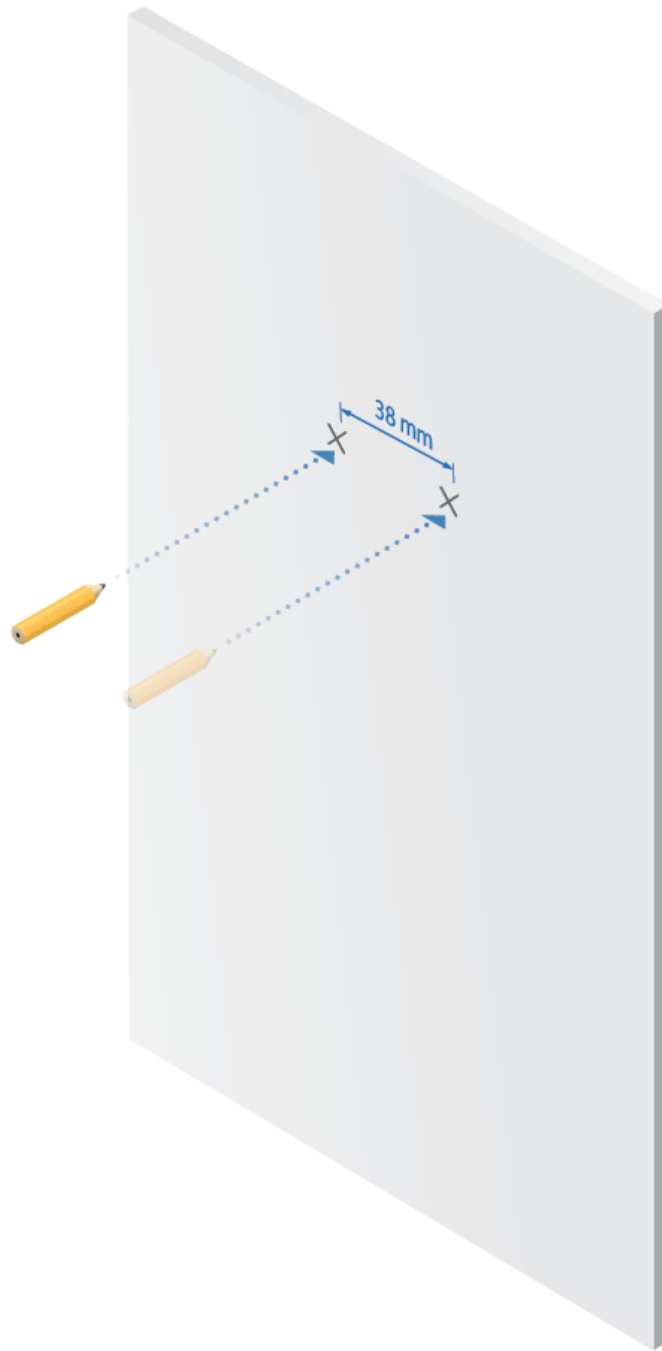
6.



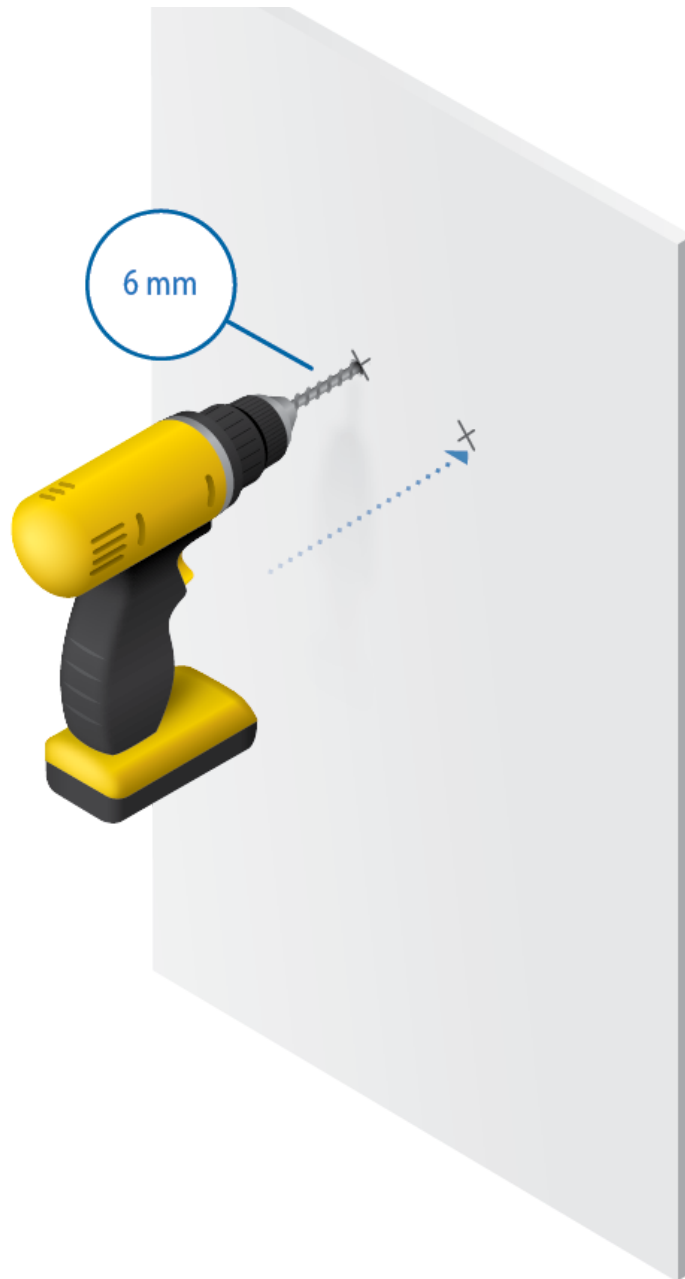


Note: Screws not included.

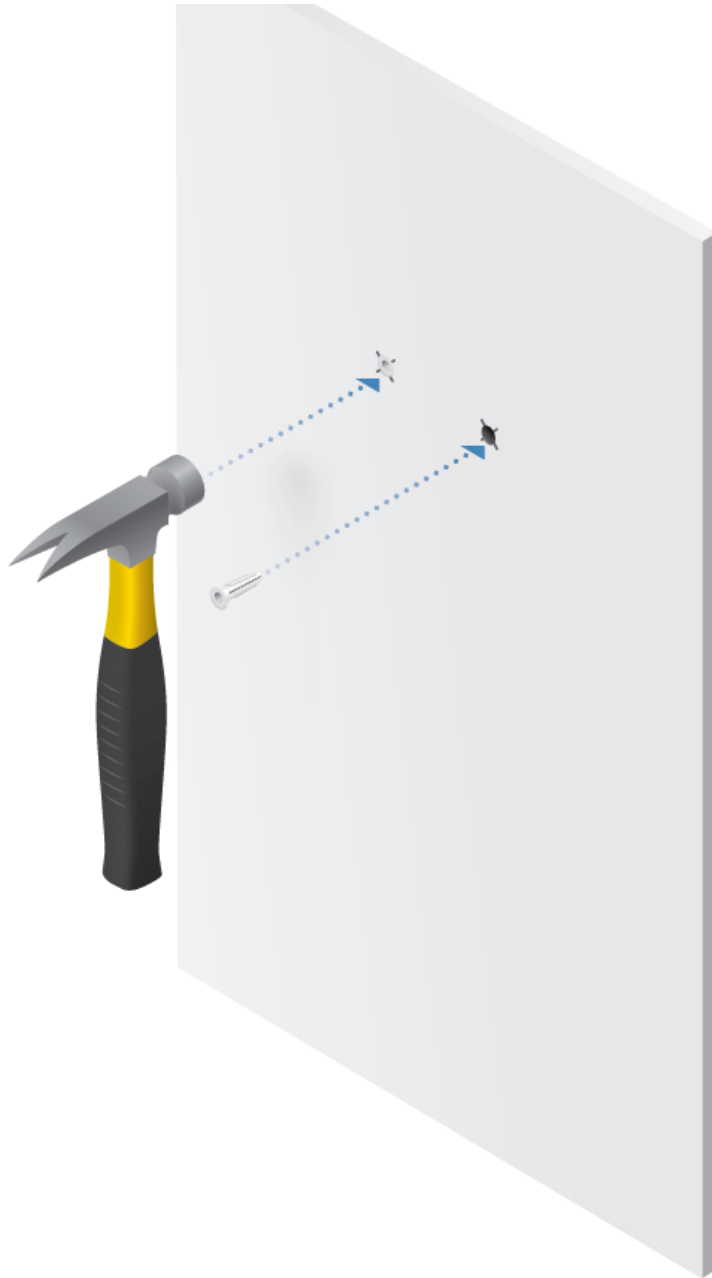
1.



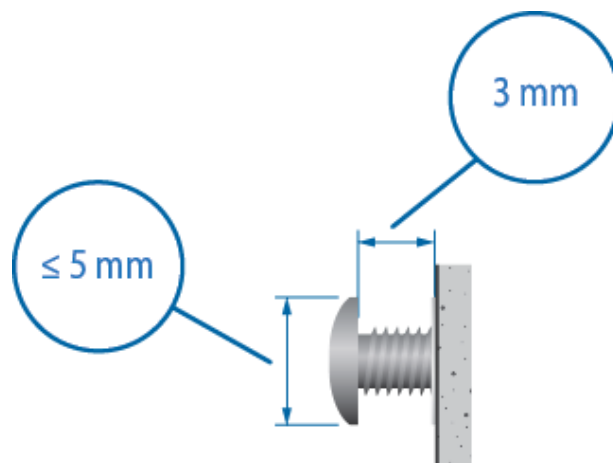
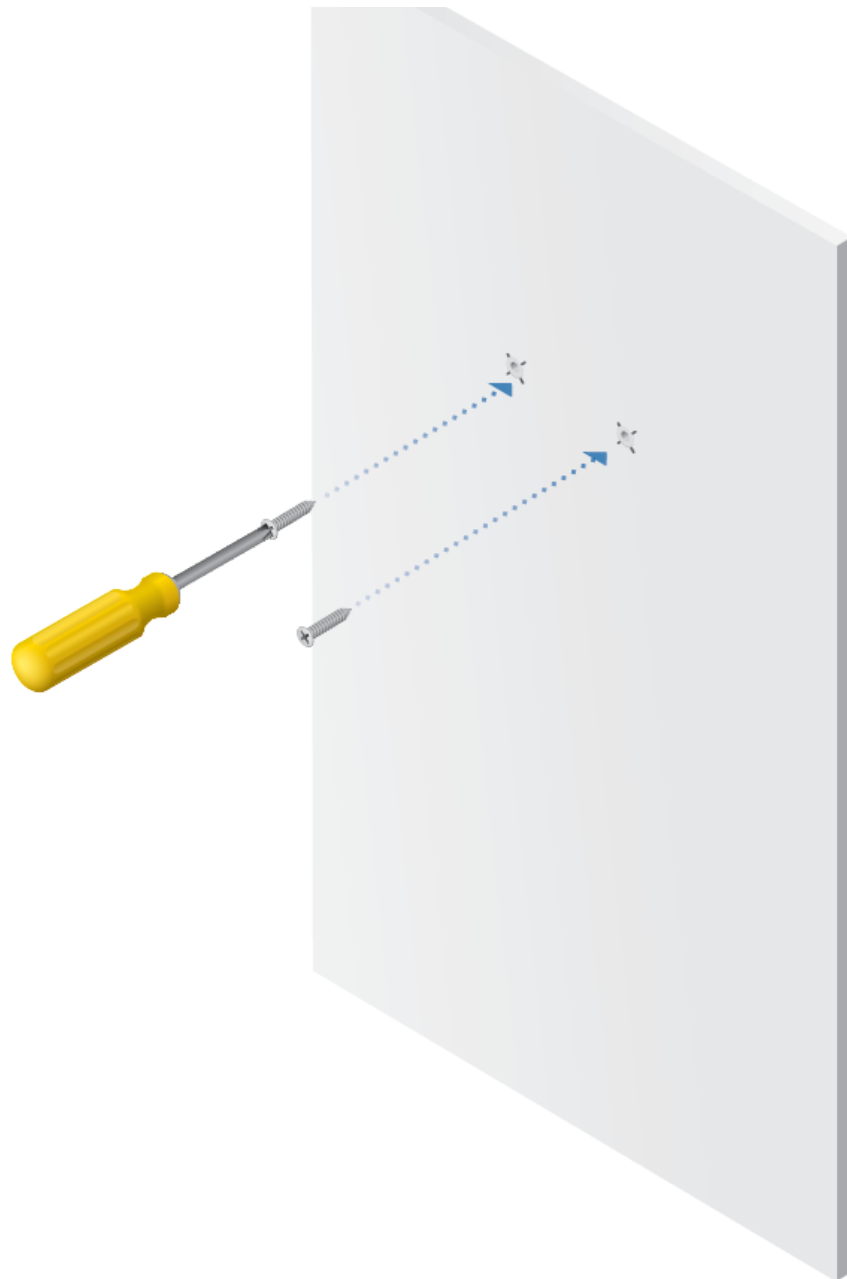
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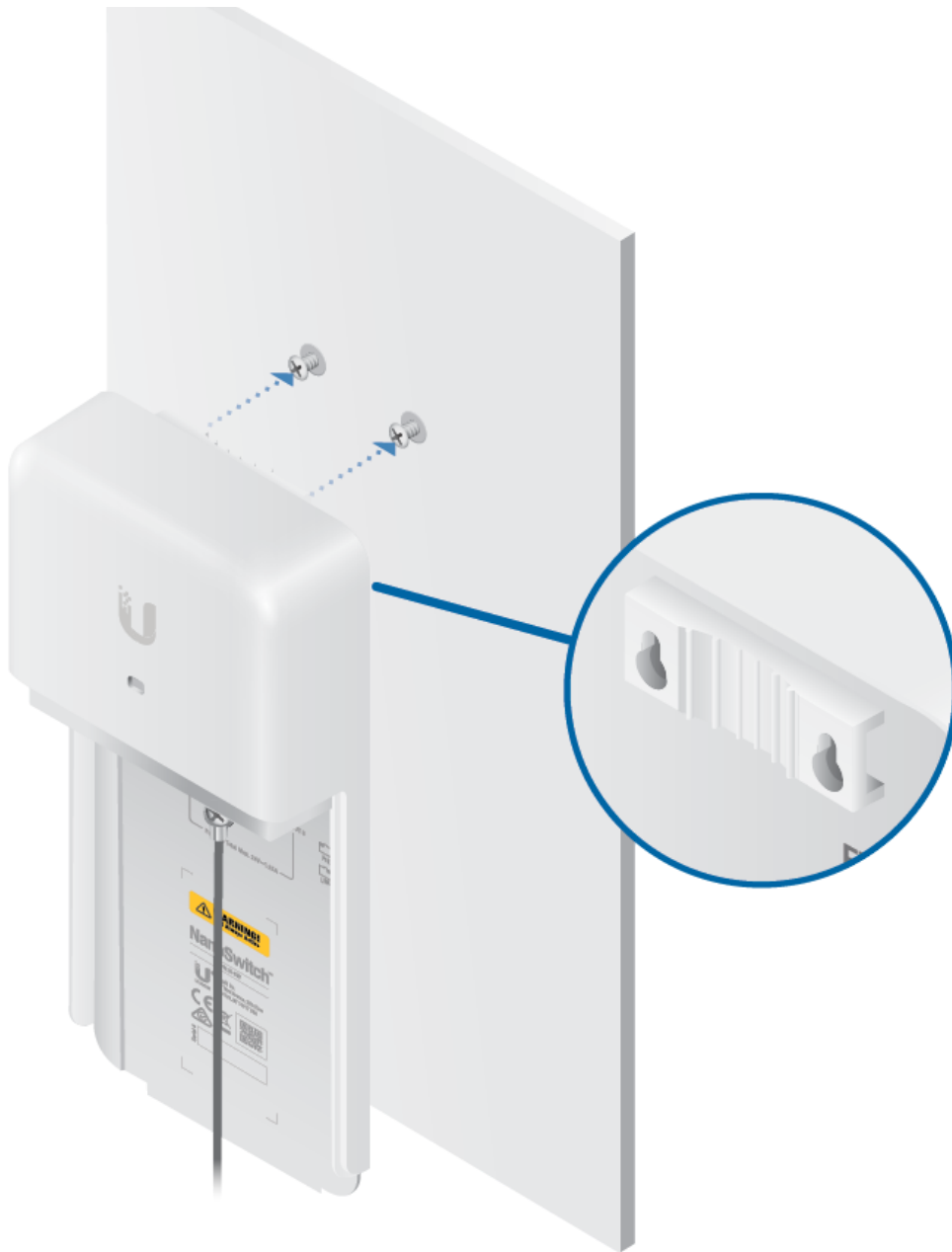


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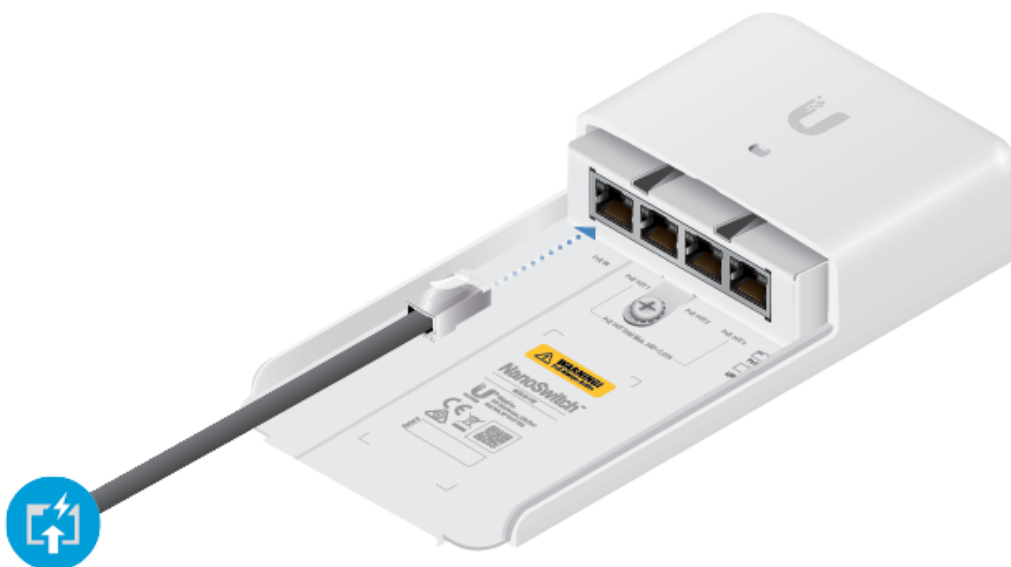




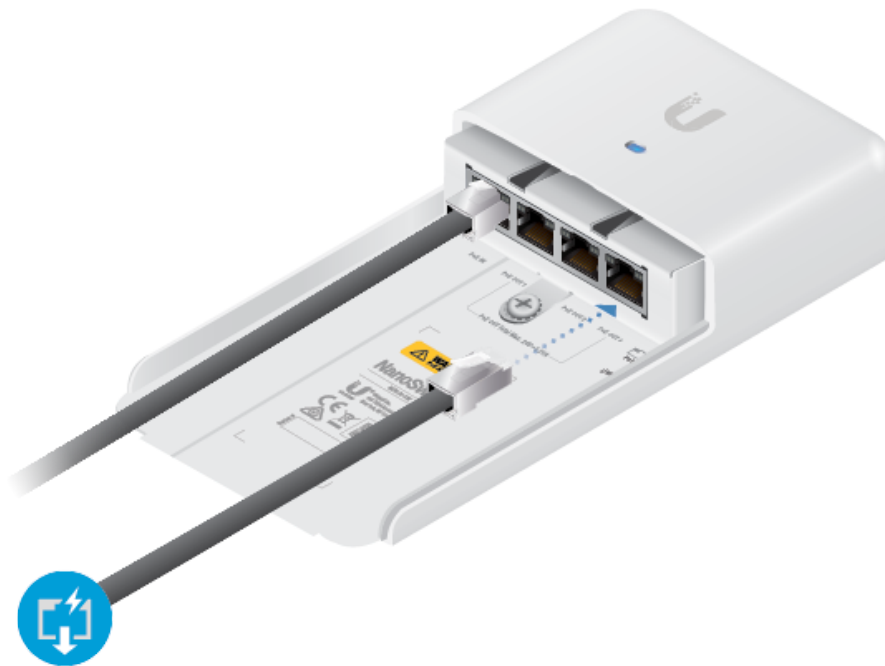
6.



Connecting Power



Connecting Ethernet



Specifications

N-SW	
Dimensions (Excluding Mount)	196.4 x 93.5 x 32.4 mm (7.73 x 3.68 x 1.28")
Weight	271 g (9.6 oz)
Enclosure Characteristics	White Polycarbonate
Total Non-Blocking Line Rate	4 Gbps
Typical Power Consumption	1.5W
Max. Power Consumption	30W
Power Method	24V, 2-Pair Passive PoE
Networking Interfaces	(4) 10/100/1000 Mbps Ethernet RJ45
Total Passive PoE Max Wattage	24V, 2-Pair, 1A for 3 Ports (30W)
Passive PoE Max Wattage per Port	24V, 2-Pair, 1A per Port (24W)
Passive PoE Voltage Range	21.6 - 30V
ESD/EMP Protection	± 24kV Air, ± 24kV Contact
Operating Temperature	-30 to 70° C (-22 to 158° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC

Safety Notices

1. Read, follow, and keep these instructions.



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.

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



[WEEE Compliance Statement](#)

[Declaration of Conformity](#)

Online Resources

