

Package Contents



NanoStation loco



Zip Tie

Installation Requirements

- Shielded Category 5 (or above) cabling with drain wire should be used for all outdoor 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, one near the NanoStation loco and the other at the entry point to the building. The ETH-SP will absorb power surges and safely discharge them into the ground.

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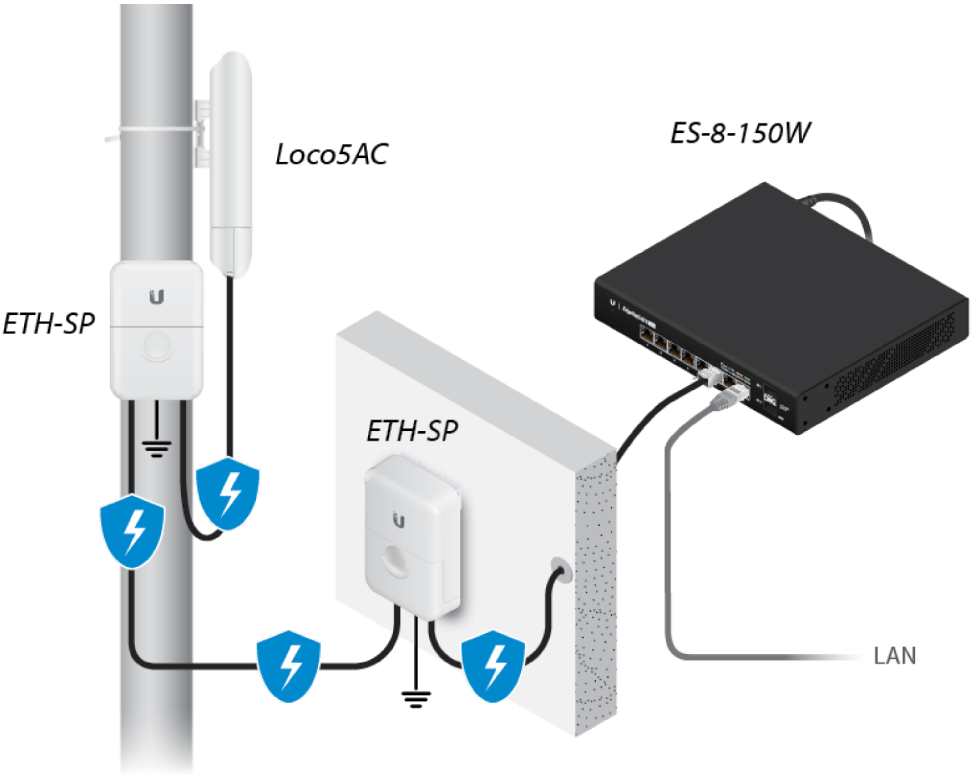


Diagram Showing Use of Ethernet Surge Protectors

Hardware Overview

Port View



1	Power LED
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2 Ethernet Port

10/100/1000 Ethernet port used to connect the power and should be connected to the LAN and DHCP server.

3 Reset Button

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

Hardware Installation

1.



2.

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Pole Mount

1.



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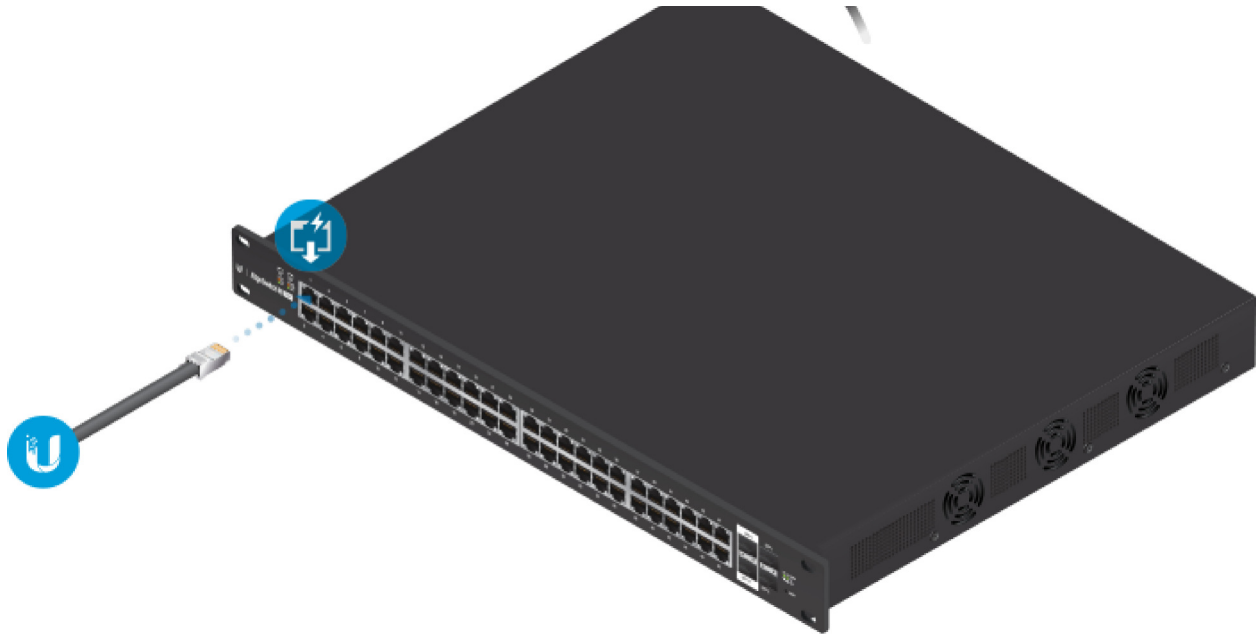
3.



Connecting Power



WARNING: The switch port must comply with the power specifications listed in this [“Specifications”](#).



Accessing airOS via Wi-Fi

Verify connectivity in the airOS® Configuration Interface using the UNMS™ app or Web Portal. Both are available for 15 minutes immediately after you power on the device. If necessary, you can power cycle the device to re-enable its Wi-Fi.

UNMS App

1. Download the UNMS app.



2. Connect your device's Wi-Fi to the SSID named: <model>:<MAC Address>



Note: Ensure that DHCP is enabled on your Wi-Fi adapter.

3. Launch the app and follow the on-screen instructions.

Web Portal

1. Connect your device's Wi-Fi to the SSID named: <model>:<MAC Address>



Note: Ensure that your Wi-Fi connection has DHCP enabled.

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3. Select your Country and Language. You must agree to the Terms of Use to use the product. Click Continue.

A screenshot of the Ubiquiti "Please Set Up Your Device" web interface. The page has a blue header with the Ubiquiti logo. The main content area is white and contains the following elements:

- DEVICE COUNTRY:** A dropdown menu with "Select Country" as the placeholder text.
- LANGUAGE:** A dropdown menu with "English" as the placeholder text.
- TERMS OF USE:** A section containing a paragraph of text about professional installation and warranty, followed by a checkbox labeled "I agree to the Ubiquiti TERMS OF USE, EULA and PRIVACY POLICY".
- UPLOAD BACKUP CONFIGURATION:** A link with a document icon.
- CONTINUE:** A blue button.

At the bottom of the page, there is a Ubiquiti logo, a text prompt "Have a SmartPhone? Try our new UNMS to install this device", and two buttons for "GET IT ON Google Play" and "Download on the App Store".

4. Create a username and password. Confirm your new password and then click Save.

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Create Your Username and Password

CHOOSE YOUR USERNAME

Username

CHOOSE A STRONG PASSWORD

Password

CONFIRM NEW PASSWORD

Confirm Password

BACK SAVE

UNMS

Have a SmartPhone? Try our new UNMS to install this device

Get it on Google Play Download on the App Store

The airOS Configuration Interface will appear, allowing you to customize your settings as needed. For additional details, refer to the User Guide available at ui.com/download/airmax-ac

Installer Compliance Responsibility

Devices must be professionally installed and it is the professional installer's responsibility to make sure the device is operated within local country regulatory requirements.

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The screenshot displays the Loco5AC web interface with the following settings:

- Basic Wireless Settings:**
 - WIRELESS MODE [?]: Station/PeP
 - SSID: Lab1
 - LOCK TO AP MAC: [Empty]
 - COUNTRY: Germany
 - CHANNEL WIDTH: Auto 20/40/80 MHz
 - AUTO CHANNEL WIDTH [?]: OFF
 - CONTROL FREQUENCY SCAN LIST MHz: OFF
 - CALCULATE EIRP LIMIT: ON
 - ANTENNA GAIN: 13 dBi
 - OUTPUT POWER: 23 dBm
 - AUTO ADJUST DISTANCE: ON
 - DISTANCE [?]: 0.4 m, 0.6 km
 - MAX TX DATA RATE: Auto
 - DATA RATE MODE: Default
- Wireless Security:**
 - SECURITY: None
 - Secondary SSID: [Unchecked]
- Advanced:**
 - AMPDU [?]: 32
 - AMPDU [?]: ON
 - SENSITIVITY THRESHOLD: OFF

A "SAVE CHANGES" button is located at the bottom right of the settings area.

The Output Power field is provided to the professional installer to assist in meeting regulatory requirements.

Specifications

Loco5AC	
Dimensions	179 x 77.5 x 59.1 mm (7.05 x 3.05 x 2.33")
Weight	180 g (6.35 oz)
Processor	MIPS 74K
Memory	DDR2 64 MB
Antenna Gain	13 dBi
Networking Interface	(1) 10/100/1000 Ethernet Port
Power Method	Passive PoE 2-Pair (Pairs 4, 5+; 7, 8 Return)
Power Supply	24V, 0.3A Gigabit PoE Supply*
Max. Power Consumption	7W
Supported Voltage Range	24V \pm 10%
ESD/EMP Protection	\pm 24kV Contact / Air
Operating Temperature	-40 to 70° C (-40 to 158° F)

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Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC

** Not included. Recommended PoE Adapter: POE-24-12W-G.*

Operating Frequency (MHz)		
Worldwide		5150 - 5875
US/CA	U-NII-1	5150 - 5250
	U-NII-2A	5250 - 5350
	U-NII-2C	5470 - 5725
	U-NII-3	5725 - 5850

Management Radio (MHz)	
Worldwide	2412 - 2472
US/CA	2412 - 2462

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 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.

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.

This radio transmitter has been approved by FCC.

ISED Canada

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

This device complies with ISED Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This radio transmitter has been approved by ISED Canada.

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

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

Le présent appareil est conforme aux CNR d'ISDE Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. l'appareil ne doit pas produire de brouillage;
2. l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Le présent émetteur radio a été approuvé par ISDE Canada.

Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

Radiation Exposure Statement

- This equipment complies with radiation exposure limits set forth for an uncontrolled environment.
- This equipment should be installed and operated with minimum distance 25 cm between the radiator and your body.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

AVIS IMPORTANT

Déclaration sur l'exposition aux rayonnements

- Cet équipement est conforme aux limites prévues pour l'exposition aux rayonnements dans un environnement non contrôlé.
- Lors de l'installation et de la mise en fonctionnement de l'équipement, assurez-vous qu'il y ait une distance minimale de 25 cm entre l'élément rayonnant et vous.
- Cet émetteur ne doit être installé à proximité d'aucune autre antenne ni d'aucun autre émetteur, et ne doit être utilisé conjointement à aucun autre de ces appareils.

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.

Brazil



Nota: Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

CE Marking

CE marking on this product represents the product is in compliance with all directives that are applicable to it.



Country List



AT	BE	BG	CY	CZ	DE	DK	EE	EL	ES	FI	FR	HR	HU
IE	IT	LV	LT	LU	MT	NL	PL	PT	RO	SE	SI	SK	UK

BFWA (Broadband Fixed Wireless Access) members noted in blue

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The following apply to products that operate in the 5 GHz frequency range:



Note: This device is restricted to indoor use only when operating in the 5150 - 5350 MHz frequency range within all member states.



Note: All countries listed may operate at 30 dBm. BFWA member states may operate at 36 dBm.



Note: Operation in the 5.8 GHz frequency band is prohibited in BFWA member states. Other countries listed may use the 5.8 GHz frequency band.

WEEE Compliance Statement

Declaration of Conformity

Online Resources

