



# NanoStation® **AC** loco

5 GHz airMAX® AC Radio

Model: Loco5AC

QUICK START GUIDE

## Introduction

Thank you for purchasing the Ubiquiti Networks® NanoStation® 5AC loco. This Quick Start Guide is designed to guide you through the installation and also includes warranty terms.

## Package Contents



NanoStation  
loco



Zip Tie



Quick Start  
Guide

**TERMS OF USE:** Ubiquiti radio devices must be professionally installed. Shielded Ethernet cable and earth grounding must be used as conditions of product warranty. TOUGH Cable™ is designed for outdoor installations. It is the professional installer's responsibility to follow local country regulations, including operation within legal frequency channels, output power, and Dynamic Frequency Selection (DFS) requirements.

## 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 Networks. For more details, visit [www.ubnt.com/toughcable](http://www.ubnt.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.

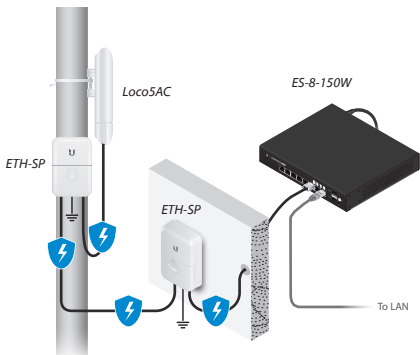


Diagram Showing Use of Ethernet Surge Protectors

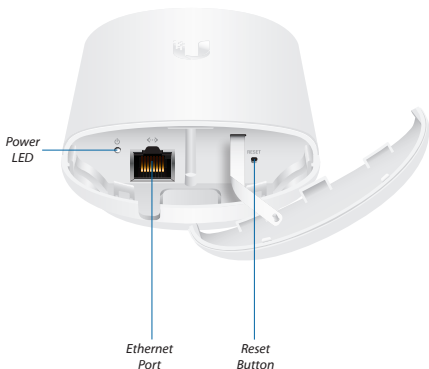
# Hardware Overview

## Back View

Mounting  
Bracket



## Port View



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

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

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

## Hardware Installation

1. Remove the port cover by pressing down on the center of the cover and sliding the cover out.



2. Connect an Ethernet cable to the *Ethernet Port*.



3. Replace the port cover.

## Pole Mount

1. Position the NanoStation loco at the desired location on a pole and insert a *Zip Tie* into the slot of the *Mounting Bracket*.



2. Align the front of the NanoStation loco toward the other end of the wireless link. Then tighten the *Zip Tie* around the pole.



3. Connect the Ethernet cable from the NanoStation loco's *Ethernet* port to a PoE-enabled Ethernet port on a switch.



**WARNING:** The switch port must comply with the power specifications listed in the *Specifications* section of this Quick Start Guide.



## Accessing airOS via Wi-Fi

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

Proceed to the appropriate instructions:

### UNMS App

1. Download the UNMS app from the App Store® (iOS) or Google Play™ (Android).

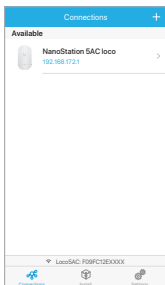


2. Connect your device's Wi-Fi to the NanoStation loco SSID named: **Loco5AC:<MAC Address>**

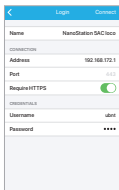


**Note:** Ensure that DHCP is enabled on your Wi-Fi adapter.

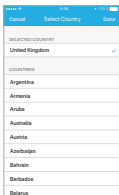
3. Launch the app.
4. Tap the NanoStation loco on the *Connections* screen.



5. Tap **Connect** on the *Login* screen.



6. Select your *Country* and tap **Done**.



7. Customize your settings as needed.



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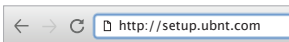
## Web Portal

1. Connect your device's Wi-Fi to the NanoStation loco SSID named: **Loco5AC:<MAC Address>**



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

2. Launch a web browser and go to: **http://setup.ubnt.com**



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



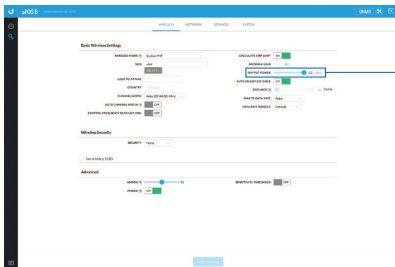
**Note:** The *Country* setting for U.S. product versions is restricted to a choice of Canada, Puerto Rico, or the U.S. to ensure compliance with FCC/IC regulations.

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

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

## 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.



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 ±10%
ESD/EMP Protection	±24kV Contact / Air
Operating Temperature	-40 to 70° C (-40 to 158° F)
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 a 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

**[www.ubnt.com/support/warranty/](http://www.ubnt.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.

NOTE: 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 (FCC ID: SWX-NS5ACLW) 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 (IC: 6545A-NS5ACLW) has been approved by ISED Canada.

### 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 (IC : 6545A-NS5ACLW) a été approuvé par ISDE Canada.

## RF Exposure Warning

The antennas used for this transmitter must be installed to provide a separation distance of at least 25 cm from all persons and must not be located or operating in conjunction with any other antenna or transmitter.

Les antennes utilisées pour ce transmetteur doivent être installées en considérant une distance de séparation de toute personnes d'au moins 25 cm et ne doivent pas être localisées ou utilisées en conflit avec tout autre antenne ou transmetteur.

## Australia and New Zealand



Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

## 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



**Note:** This device meets Max. TX power limit per ETSI regulations.

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.



## RoHS/WEEE Compliance Statement



### English

European Directive 2012/19/EU requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

### Deutsch

Die Europäische Richtlinie 2012/19/EU verlangt, dass technische Ausrüstung, die direkt am Gerät und/oder an der Verpackung mit diesem Symbol versehen ist, nicht zusammen mit unsortiertem Gemeindeabfall entsorgt werden darf. Das Symbol weist darauf hin, dass das Produkt von regulärem Haushaltsmüll getrennt entsorgt werden sollte. Es liegt in Ihrer Verantwortung, dieses Gerät und andere elektrische und elektronische Geräte über die dafür zuständigen und von der Regierung oder örtlichen Behörden dazu bestimmten Sammelstellen zu entsorgen. Ordnungsgemäßes Entsorgen und Recyceln trägt dazu bei, potentielle negative Folgen für Umwelt und die menschliche Gesundheit zu vermeiden. Wenn Sie weitere Informationen zur Entsorgung Ihrer Altgeräte benötigen, wenden Sie sich bitte an die örtlichen Behörden oder städtischen Entsorgungsdienste oder an den Händler, bei dem Sie das Produkt erworben haben.

## Español

La Directiva 2012/19/UE exige que los equipos que lleven este símbolo en el propio aparato y/o en su embalaje no deben eliminarse junto con otros residuos urbanos no seleccionados. El símbolo indica que el producto en cuestión debe separarse de los residuos domésticos convencionales con vistas a su eliminación. Es responsabilidad suya desechar este y cualesquiera otros aparatos eléctricos y electrónicos a través de los puntos de recogida que ponen a su disposición el gobierno y las autoridades locales. Al desechar y reciclar correctamente estos aparatos estará contribuyendo a evitar posibles consecuencias negativas para el medio ambiente y la salud de las personas. Si desea obtener información más detallada sobre la eliminación segura de su aparato usado, consulte a las autoridades locales, al servicio de recogida y eliminación de residuos de su zona o pregunte en la tienda donde adquirió el producto.

## Français

La directive européenne 2012/19/UE exige que l'équipement sur lequel est apposé ce symbole sur le produit et/ou son emballage ne soit pas jeté avec les autres ordures ménagères. Ce symbole indique que le produit doit être éliminé dans un circuit distinct de celui pour les déchets des ménages. Il est de votre responsabilité de jeter ce matériel ainsi que tout autre matériel électrique ou électronique par les moyens de collecte indiqués par le gouvernement et les pouvoirs publics des collectivités territoriales. L'élimination et le recyclage en bonne et due forme ont pour but de lutter contre l'impact néfaste potentiel de ce type de produits sur l'environnement et la santé publique. Pour plus d'informations sur le mode d'élimination de votre ancien équipement, veuillez prendre contact avec les pouvoirs publics locaux, le service de traitement des déchets, ou l'endroit où vous avez acheté le produit.

## Italiano

La direttiva europea 2012/19/UE richiede che le apparecchiature contrassegnate con questo simbolo sul prodotto e/o sull'imballaggio non siano smaltite insieme ai rifiuti urbani non differenziati. Il simbolo indica che questo prodotto non deve essere smaltito insieme ai normali rifiuti domestici. È responsabilità del proprietario smaltire sia questi prodotti sia le altre apparecchiature elettriche ed elettroniche mediante le specifiche strutture di raccolta indicate dal governo o dagli enti pubblici locali. Il corretto smaltimento ed il riciclaggio aiuteranno a prevenire conseguenze potenzialmente negative per l'ambiente e per la salute dell'essere umano. Per ricevere informazioni più dettagliate circa lo smaltimento delle vecchie apparecchiature in Vostro possesso, Vi invitiamo a contattare gli enti pubblici di competenza, il servizio di smaltimento rifiuti o il negozio nel quale avete acquistato il prodotto.

# Declaration of Conformity

**български [Bulgarian]** С настоящото UBIQUITI NETWORKS декларира, че този тип радиосъоръжение Loco5AC е в съответствие с Директива 2014/53/ЕС. Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Hrvatski [Croatian]** UBIQUITI NETWORKS ovime izjavljuje da je radijska oprema tipa Loco5AC u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Čeština [Czech]** Tímto UBIQUITI NETWORKS prohlašuje, že typ rádiového zařízení Loco5AC je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Dansk [Danish]** Hermed erklærer UBIQUITI NETWORKS, at radioudstyrstypen Loco5AC er i overensstemmelse med direktiv 2014/53/EU. EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Nederlands [Dutch]** Hierbij verklaar ik, UBIQUITI NETWORKS, dat het type radioapparatuur Loco5AC conform is met Richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**English** Hereby, UBIQUITI NETWORKS declares that the radio equipment type Loco5AC is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Eesti keel [Estonian]** Käesolevaga deklareerib UBIQUITI NETWORKS, et käesolev raadioseadme tüüp Loco5AC vastab direktiivi 2014/53/EL nõuetele. ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Suomi [Finnish]** UBIQUITI NETWORKS vakuuttaa, että radiolaitetyyppi Loco5AC on direktiivin 2014/53/EU mukainen. EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Français [French]** Le soussigné, UBIQUITI NETWORKS, déclare que l'équipement radioélectrique du type Loco5AC est conforme à la directive 2014/53/UE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Deutsch [German]** Hiermit erklärt UBIQUITI NETWORKS, dass der Funkanlagentyp Loco5AC der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Ελληνικά [Greek]** Με την παρούσα ο/η UBIQUITI NETWORKS, δηλώνει ότι ο ραδιοεξοπλισμός Loco5AC πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Magyar [Hungarian]** UBIQUITI NETWORKS igazolja, hogy a Loco5AC típusú rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Íslenska [Icelandic]** Hér með lýsir UBIQUITI NETWORKS yfir því að Loco5AC er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 2014/53/EU. Fullur texti ESB samræmisýfirlýsing er að finna á eftirfarandi netfangi: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Italiano [Italian]** Il fabbricante, UBIQUITI NETWORKS, dichiara che il tipo di apparecchiatura radio Loco5AC è conforme alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Latviešu valoda [Latvian]** Ar šo UBIQUITI NETWORKS deklarē, ka radioiekārta Loco5AC atbilst Direktīvai 2014/53/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Lietuvių kalba [Lithuanian]** Aš, UBIQUITI NETWORKS, patvirtinu, kad radijo įrenginių tipas Loco5AC atitinka Direktivą 2014/53/ES. Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Malti [Maltese]** B'dan, UBIQUITI NETWORKS, niddikjara li dan it-tip ta' taghmir tar-radju Loco5AC huwa konformi mad-Direttiva 2014/53/UE. Id-dikjarazzjoni tal-konformità tista' tiġi kkonsultata minn [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Norsk [Norwegian]** UBIQUITI NETWORKS erklærer herved at utstyret Loco5AC er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 2014/53/EU. Den fulle teksten til EU-samsvarserklæringen er tilgjengelig på følgende internettadresse: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Polski [Polish]** UBIQUITI NETWORKS niniejszym oświadcza, że typ urządzenia radiowego Loco5AC jest zgodny z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Português [Portuguese]** O(a) abaixo assinado(a) UBIQUITI NETWORKS declara que o presente tipo de equipamento de rádio Loco5AC está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Română [Romanian]** Prin prezenta, UBIQUITI NETWORKS declară că tipul de echipamente radio Loco5AC este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Slovenčina [Slovak]** UBIQUITI NETWORKS týmto vyhlasuje, že rádiové zariadenie typu Loco5AC je v súlade so smernicou 2014/53/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Slovenščina [Slovenian]** UBIQUITI NETWORKS potrjuje, da je tip radijske opreme Loco5AC skladen z Direktivo 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Español [Spanish]** Por la presente, UBIQUITI NETWORKS declara que el tipo de equipo radioeléctrico Loco5AC es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

**Svenska [Swedish]** Härmed försäkras UBIQUITI NETWORKS att denna typ av radioutrustning Loco5AC överensstämmer med direktiv 2014/53/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: [www.ubnt.com/compliance](http://www.ubnt.com/compliance)

## Online Resources

Website [www.ubnt.com](http://www.ubnt.com)

Support [help.ubnt.com](http://help.ubnt.com)

Community [community.ubnt.com](http://community.ubnt.com)

Downloads [downloads.ubnt.com](http://downloads.ubnt.com)



Ubiquiti Networks, Inc.  
685 Third Avenue, 27th Floor  
New York, NY 10017  
USA

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