



NanoStationM/locoM Series Quick Start Guide

Package Contents

NSM2/NSM3/NSM365/NSM5



NanoStationM2/M3/M365/M5



Zip Tie



PoE (24V, 0.5A) with Mounting Bracket



Power Cord

locoM2/locoM5



NanoStationlocoM2/M5



Zip Tie



PoE (24V, 0.5A) with Mounting Bracket

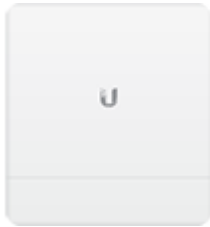


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Power Cord

locoM9



NanoStationlocoM9



Zip Tie



PoE (24V, 0.5A) with Mounting Bracket



Power Cord

Installation Requirements

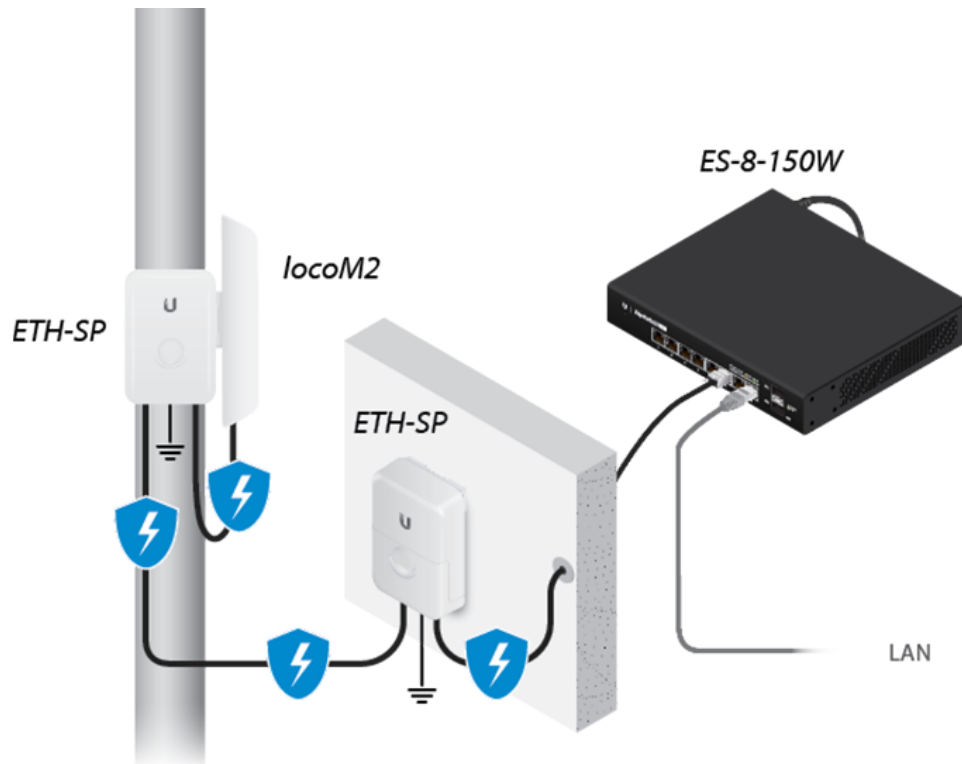
- Shielded Category 5 (or above) cabling with drain wire should be used for all wired Ethernet connections and should be grounded through the AC ground of the PoE.

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, one near the NanoStation 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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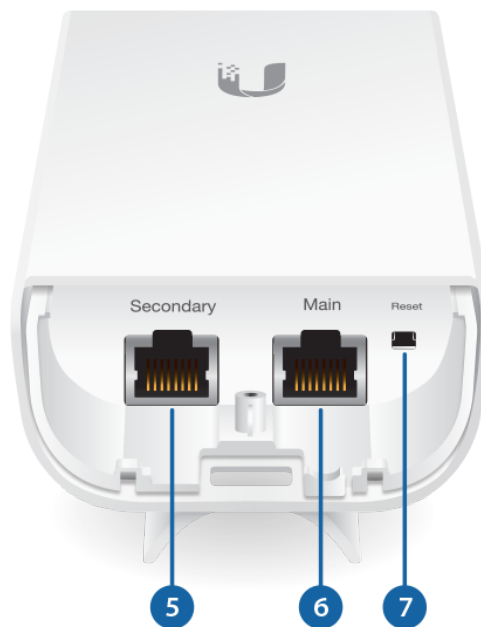
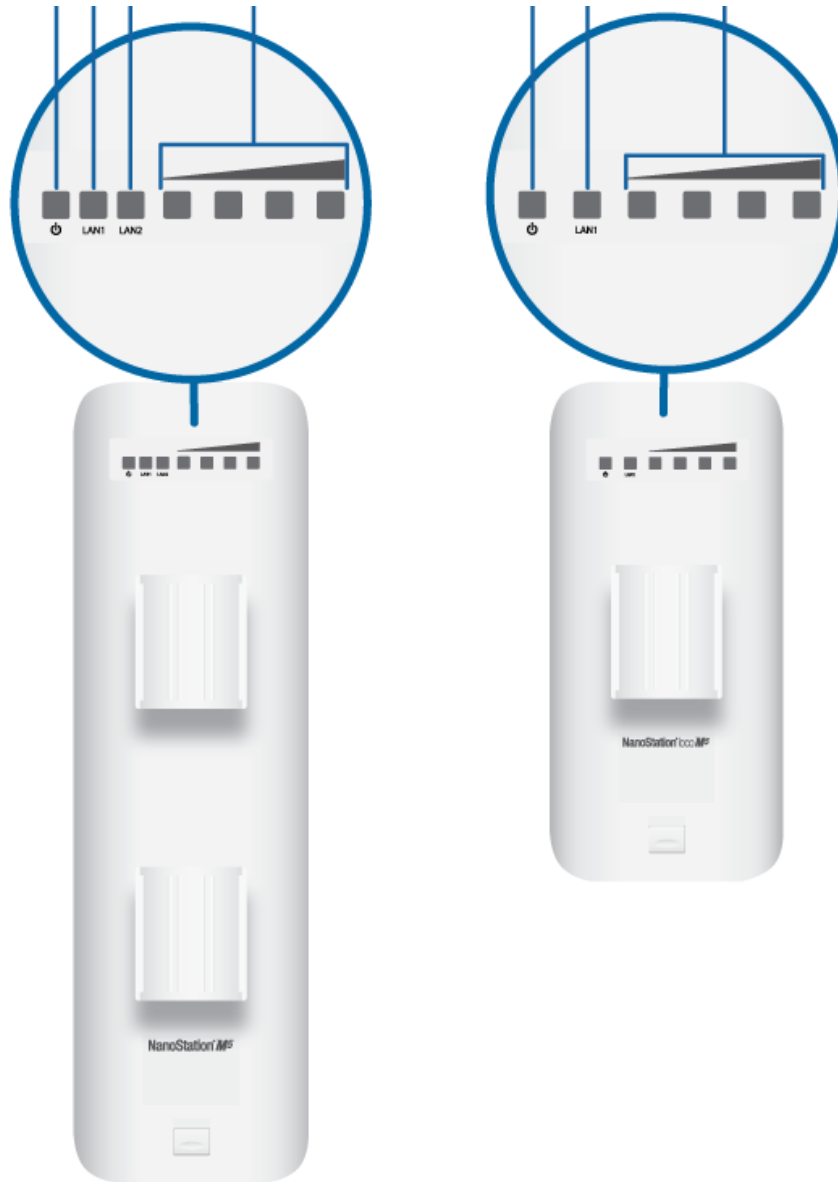


Hardware Overview

NSM2/NSM3/NSM365/NSM5/locoM2/locoM5



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

2 LAN1 LED

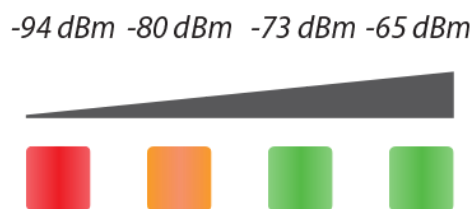
The LED will light steady green when an active Ethernet connection is made to the Main/LAN port and flash when there is activity.

3 LAN2 LED

(NanoStation M2/M3/M5 only) The LED will light steady green when an active Ethernet connection is made to the Secondary port and flash when there is activity.

4 Signal LEDs

In airOS®, you can modify the threshold values for the wireless signal strength LEDs on the Advanced tab under Signal LED Thresholds. The default values are shown below:



5 Secondary Port

(NanoStationM2/M3/M5 only) This 10/100 Ethernet port is used for bridging and supports software-configurable PoE passthrough.



Note: To use PoE passthrough on the Secondary port, a 24V, 1A PoE adapter is required.

6 Main/LAN* Port

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

7 Reset Button

To reset to factory defaults, press and hold the Reset button for more than 10 seconds while the device is powered on. Alternatively, the device may be reset remotely via a Reset button located on the bottom of the PoE adapter.

* The Main port is labeled LAN on the NanoStationlocoM2/M5.



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**1 Power LED**

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

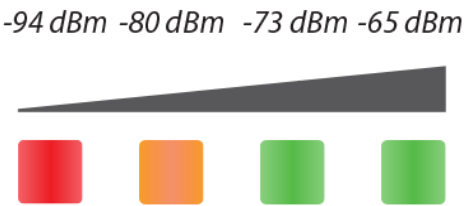
2 LAN1 LED

The LED will light steady green when an active Ethernet connection is made to the Main/LAN port and flash when there is activity.



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In airOS®, you can modify the threshold values for the wireless signal strength LEDs on the Advanced tab under Signal LED Thresholds. The default values are shown below:



4 RP-SMA Antenna Connector

Reserved for future use.

5 Main/LAN Port

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

6 Reset Button

To reset to factory defaults, press and hold the Reset button for more than 10 seconds while the device is powered on. Alternatively, the device may be reset remotely via a Reset button located on the bottom of the PoE adapter.

Installation

1.



2.



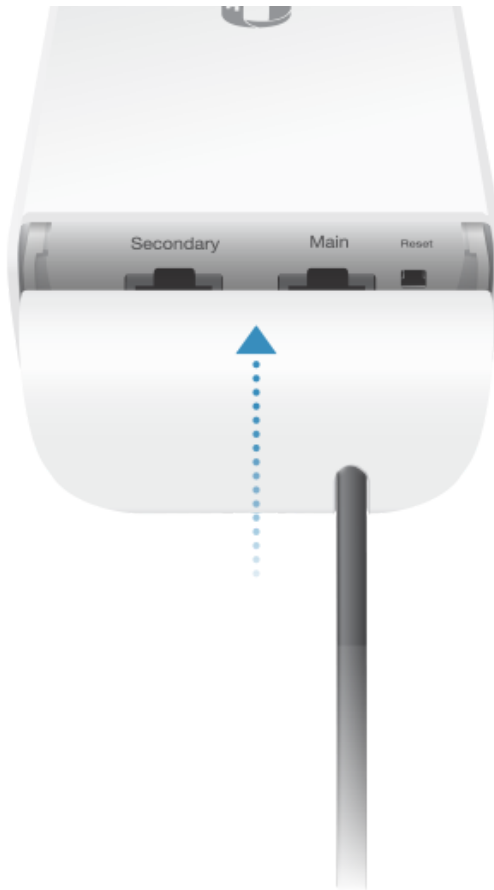
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3.

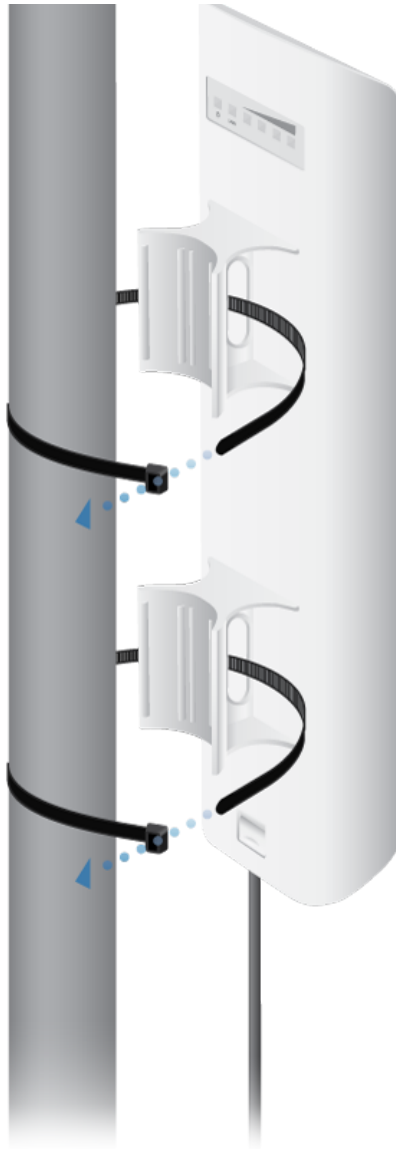


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4.

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5.



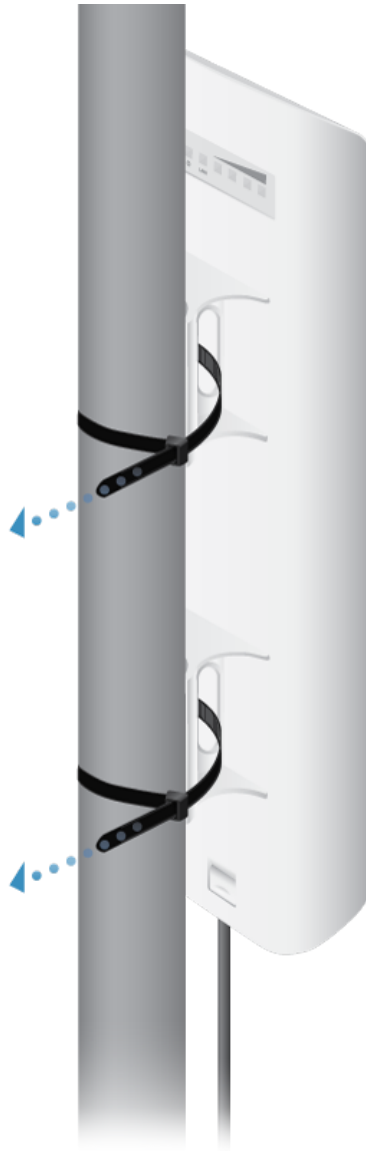
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6.



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Connecting Power



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



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OR



Optional



Accessing airOS

Verify connectivity in the airOS Configuration Interface.

1. Make sure that your host system is connected via Ethernet to the device.

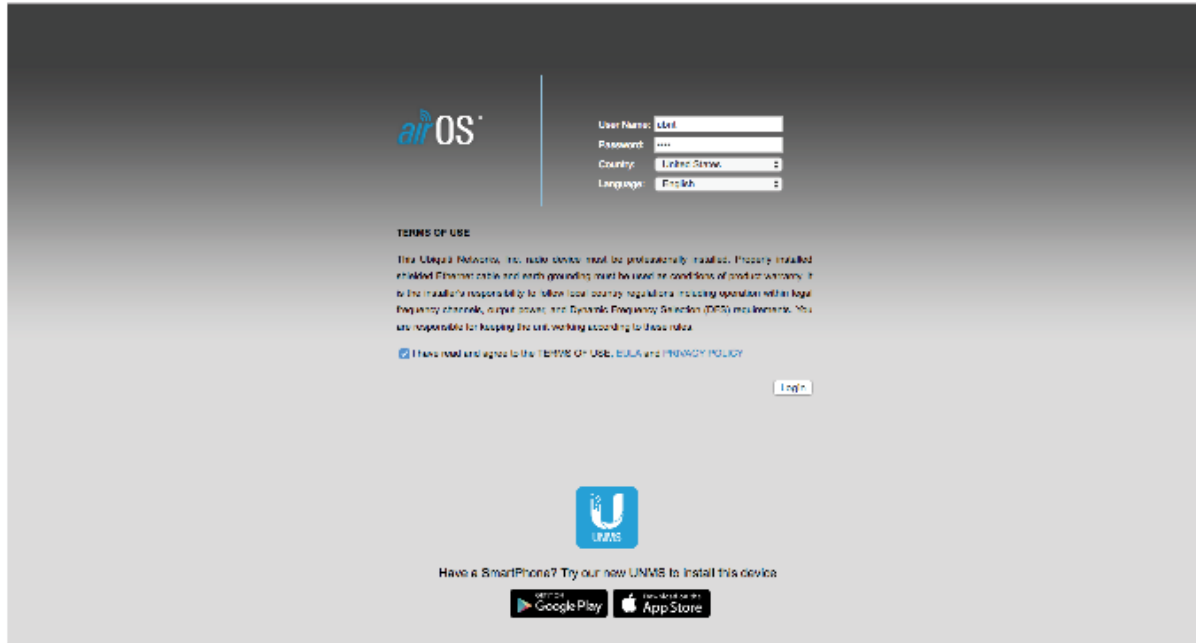


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3. Launch your web browser and type `https://192.168.1.20` in the address field. Press enter (PC) or return (Mac).



4. Enter `ubnt` in the Username and Password fields. Select your Country and Language. You must agree to the Terms of Use to use the product. Click Login.



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

You can also manage your device using the Ubiquiti® Network Management System. Setup using the UNMS™ app requires the U-Installer, sold separately.

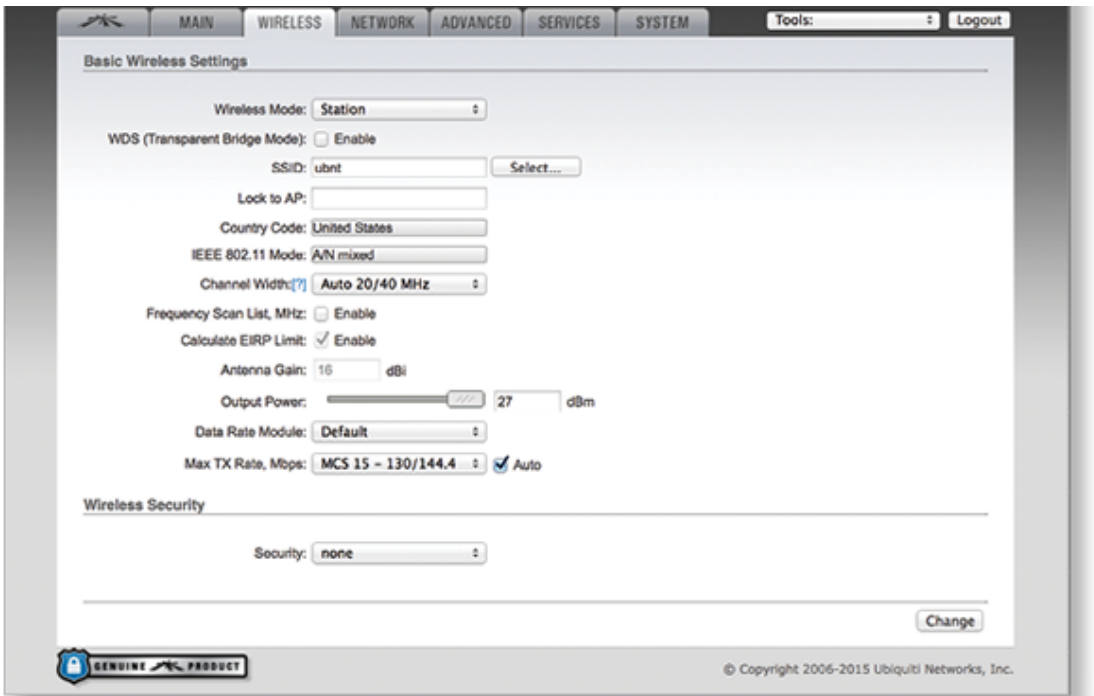
Installer Compliance Responsibility

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 Antenna Gain and Output Power fields are provided to the professional installer to assist in meeting regulatory requirements.

Specifications

NanoStationM2/M3/M365/M5	
Dimensions	294 x 30 x 80 mm (11.57 x 1.18 x 3.15")
Weight	
NSM2/NSM5	0.4 kg (14.11 oz)
NSM3/NSM365	0.5 kg (17.64 oz)
Gain	
NSM2	11 dBi
NSM3/NSM365	13.7 dBi
NSM5	16 dBi
Networking Interface	(2) 10/100 Ethernet Ports
Max. Power Consumption	8W
Power Supply	24V, 0.5A PoE Adapter (Included)
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)
Mounting	Pole Mounting Kit Included
Operating Temperature	-30 to 75° C (-22 to 167° F)





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Operating Humidity	5 to 95% Noncondensing	
NSM2/NSM3/NSM365 Operating Frequency (MHz)		
NSM2	2412 - 2462	
NSM3	3400 - 3700	
NSM365	3650 - 3675	
NSM5 Operating Frequency (MHz)		
Worldwide	5150 - 5875	
EU	5150 - 5350, 5470 - 5725, 5725 - 5875	
USA	U-NII-1	5150 - 5250
	U-NII-2A	5250 - 5350
	U-NII-2C	5470 - 5725
	U-NII-3	5725 - 5850
CA	5470 - 5600, 5650 - 5725, 5725 - 5850	
NanoStationlocoM2/M5/M9		
Dimensions		
locoM9	164 x 72 x 199 mm (6.46 x 2.83 x 7.83")	
locoM2/locoM5	163 x 31 x 80 mm (6.42 x 1.22 x 3.15")	
Weight		
locoM9	0.9 kg (31.75 oz)	
locoM2/locoM5	0.18 kg (6.35 oz)	
Gain		
locoM9/locoM2	8 dBi	
locoM5	13 dBi	
Networking Interface	(1) 10/100 Ethernet Port	
Max. Power Consumption		
locoM9	6.5W	
locoM2/locoM5	5.5W	
Power Supply	24V, 0.5A PoE Adapter (Included)	
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)	
Mounting	Pole Mounting Kit Included	
Operating Temperature	-30 to 75° C (-22 to 167° F)	





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Operating Humidity	5 to 95% Noncondensing	
locoM2 Operating Frequency (MHz)		
Worldwide	2412 - 2462	
locoM5 Operating Frequency (MHz)		
Worldwide	5150 - 5875	
EU	5150 - 5350, 5470 - 5725, 5725 - 5875	
USA	U-NII-1	5150 - 5250
	U-NII-2A	5250 - 5350
	U-NII-2C	5470 - 5725
	U-NII-3	5725 - 5850
CA	5470 - 5600, 5650 - 5725, 5725 - 5850	
locoM9 Operating Frequency (MHz)		
Worldwide	902 - 928	

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.
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



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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.

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.





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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.

IMPORTANT NOTE

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 20 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 20 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.



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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: 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





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