Package Contents

NSM2/NSM3/NSM365/NSM5

NanoStation M2/M3/M365/M5

Flange

PoE (24V, 0.5A) with support mounting

Mounting bracket
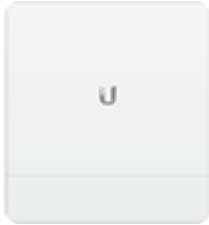
locoM2/locoM5

NanoStationlocoM2/M5

Flange

PoE (24V, 0.5A) with support mounting

Mounting bracket

locoM9

NanoStationlocoM9

Flange

PoE (24V, 0.5A) with support mounting

Mounting bracket

Installation requirements

- Category 5 (or higher) shielded cabling with drain wire must be used for all Ethernet connections and must be connected to the PoE AC ground.

  We recommend that you protect your networks from harmful outdoor environments and electrostatic discharge phenomena with Ubiquiti's industrial-grade Ethernet shielded cable. For more information, please visit ui.com/toughcable

- Surge protection must be used at all outdoor installations. We recommend that you use two surge protectors, model ETH-SP, one near the NanoStation and one at the building entry point. The ETH-SP will absorb surges and safely discharge them to the ground.
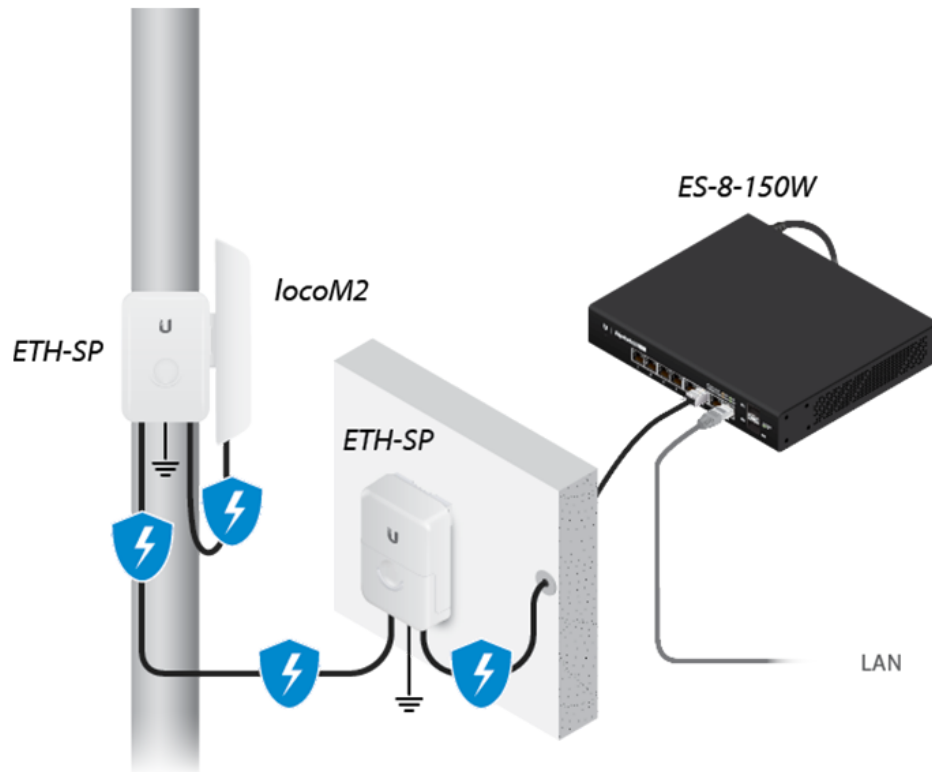
Hardware Overview

NSM2/NSM3/NSM365/NSM5/locoM2/locoM5
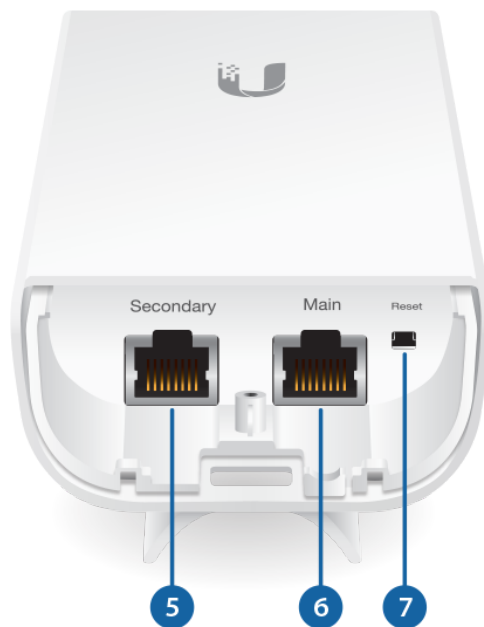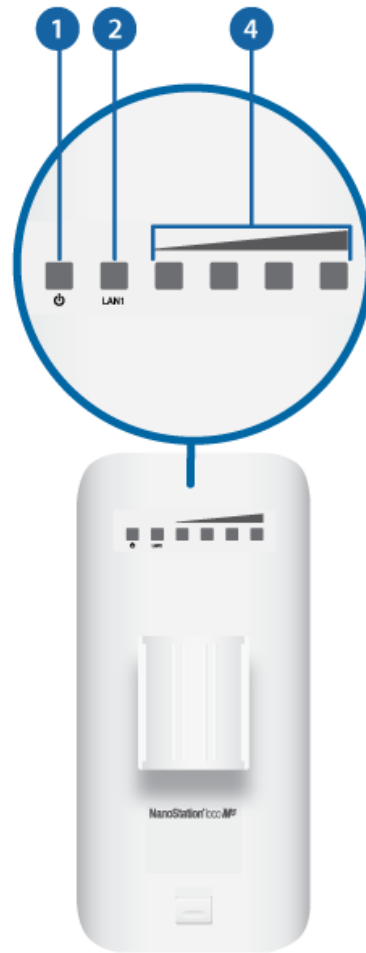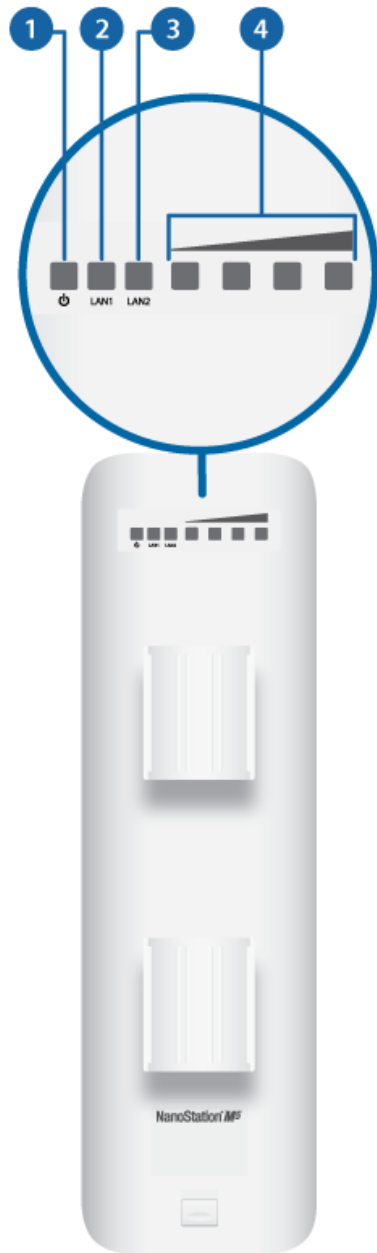
| |
|---|
| **1** Power LED |
| The LED indicator will light green when the device is connected to a power source. |
| **2** LAN1 LED |
| The LED indicator will light solid green when the device is connected to an Ethernet network using the main or LAN port and will flash if there is activity. |
| **3** LAN2 LED |
| (NanoStation M2/M3/M5 only) The LED indicator will light solid green when the device is connected to an Ethernet network using the secondary port and will blink if there is activity. |
| **4** LED signal indicators |
| In airOS®, you can modify the threshold value for the wireless LED signal strength. To do so, go to the Advanced tab under Signal LED Thresholds. The default values are shown below:
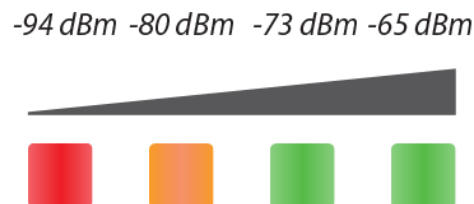
-94 dBm -80 dBm   -73 dBm -65 dBm |
| **5** Secondary |
| (NanoStation M2/M3/M5 only) The 10/100 Ethernet port is used as a bridge and supports a PoE gateway with software configuration.

Note:To use a PoE gateway on the secondary port, a 24V 1A PoE adapter is required. |
| **6** Main/LAN* |
| The 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. You can also reset the device remotely using the reset button located on the bottom of the PoE adapter.

*The main port is called LAN on the NanoStationlocoM2/M5.*

locoM9

1 Power LED

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

2 LAN1 LED
The LED indicator will light solid green when the device is connected to an Ethernet network using the main or LAN port and will flash if there is activity.
3 LED signal indicators
In airOS®, you can modify the threshold value for the wireless LED signal strength. To do so, go to the Advanced tab under Signal LED Thresholds. The default values   are shown below:

-94 dBm -80 dBm -73 dBm -65 dBm
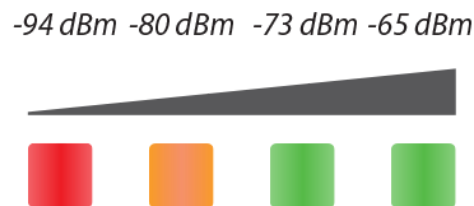
| |
|---|
| **4** RP-SMA antenna connector |
| Reserved for future use. |
| **5** Main/LAN |
| The 10/100 Ethernet port is used to connect the power and should be connected to the LAN and DHCP server. |
| **6** Reset button |
| To restore factory defaults, press and hold the Reset button for more than 10 seconds while the device is powered on. You can also reset the device remotely using the reset button located on the bottom of the PoE adapter. |

Facility

1.

2.

3.

4.
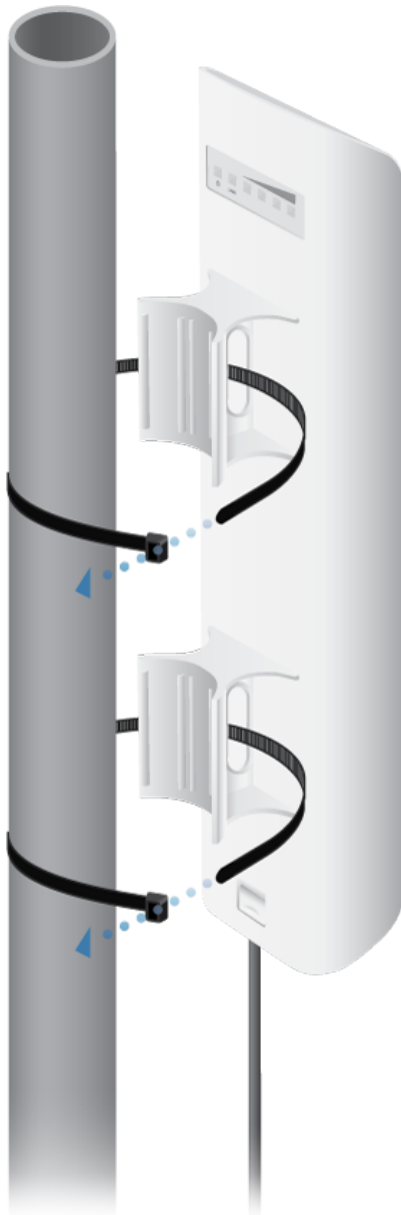
5.

6.
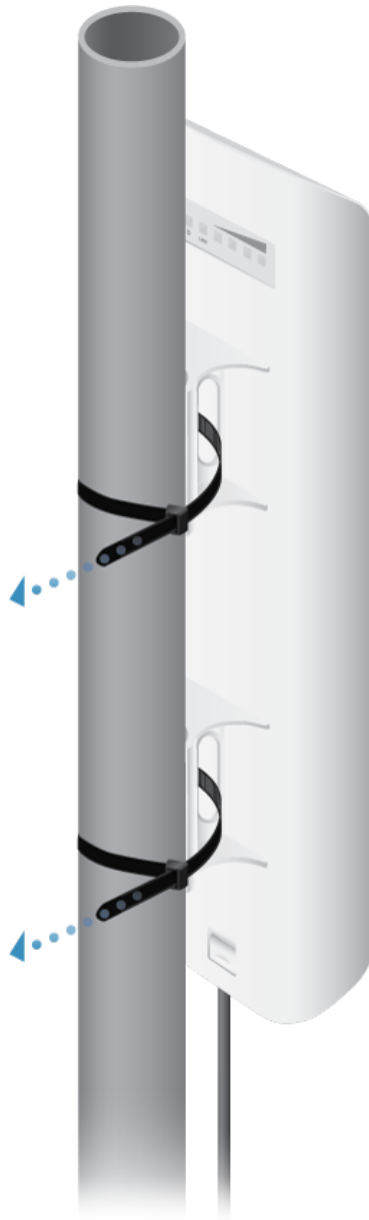
Connecting the power supply

⚠ WARNING:The port switch must meet the power specifications listed in this quick start guide.

EITHER

Optional

Accessing airOS

Check connectivity in the airOS configuration interface. 1. Check that your host is connected via Ethernet to the device.

2. Configure the Ethernet adapter on your host system with a static IP address in the 192.168.1.x subnet.

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 language and country. You must agree to the Terms of Use to use the product. Click Login.
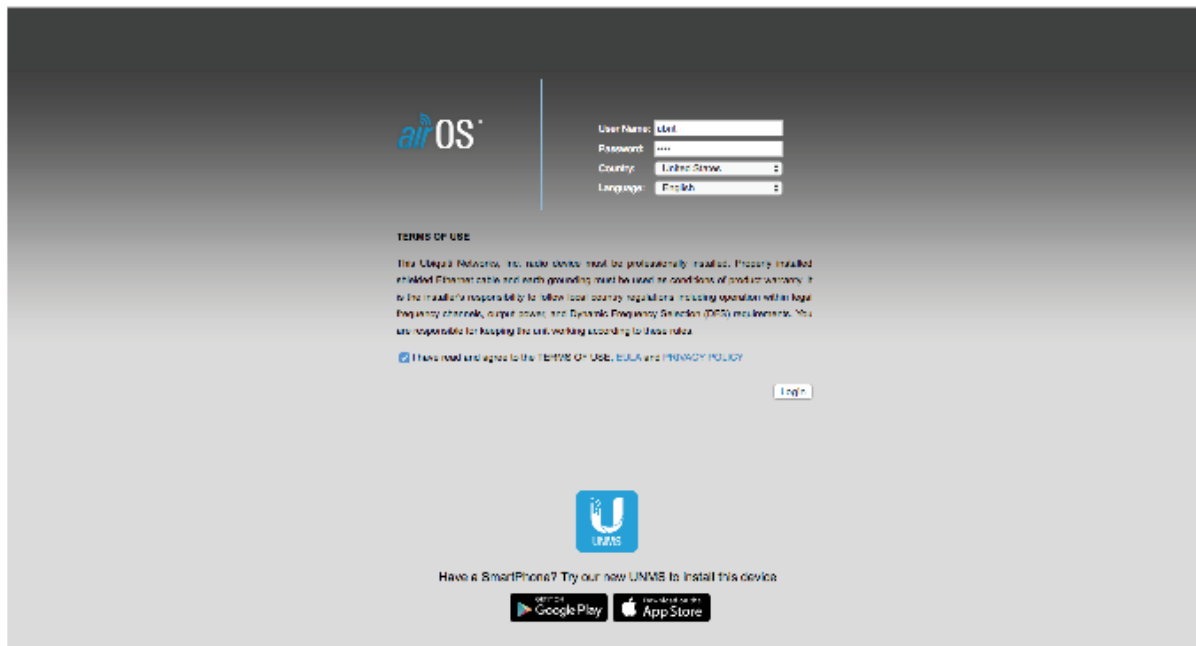
The airOS settings interface will open, allowing you to customize your settings as needed. For more information, please refer to the user guide available at ui.com/download/airmax

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

Installer's compliance responsibility

Devices must be professionally installed and it is the responsibility of the professional installer to ensure that the device is operational according to the requirements of the specific regulations of each country.
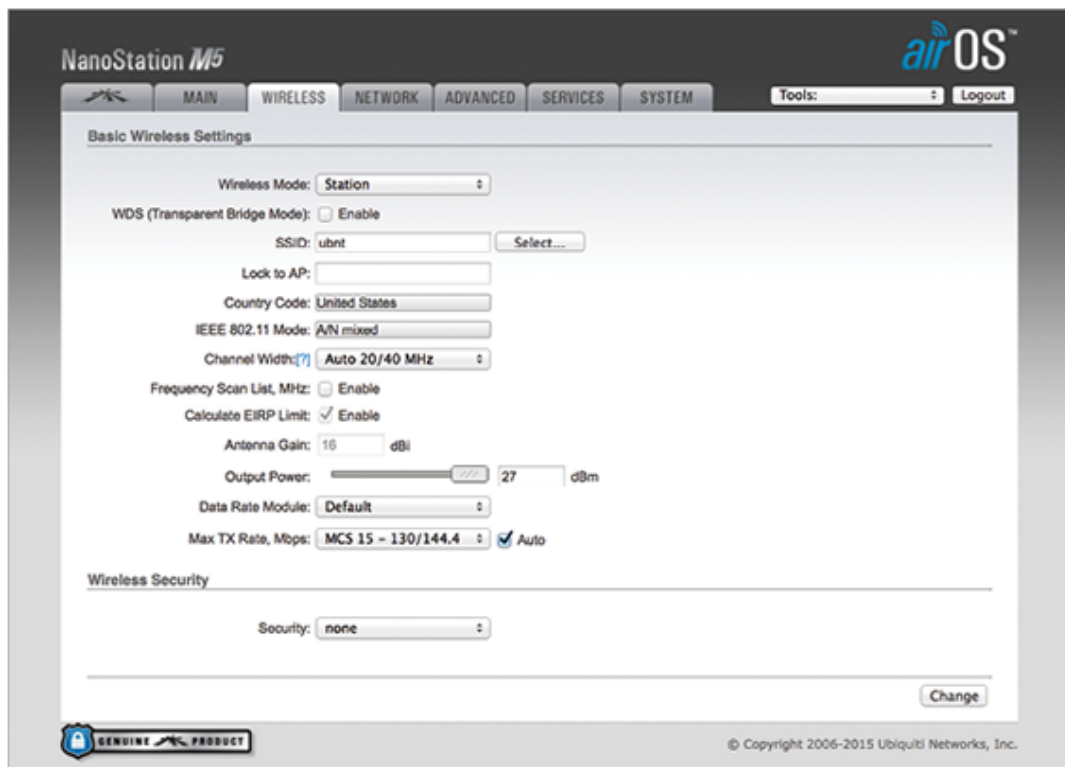
The Antenna Gain and Output Power fields assist the professional installer in meeting regulatory requirements.

Specs

NanoStation M2/M3/M365/M5	
Dimensions	294 x 30 x 80mm (11.57 x 1.18 x 3.15")

Weight
  NSM2/NSM5
  NSM3/NSM365
	
	0.4kg (14.11oz)
	0.5kg (17.64oz)

Revenue
  NSM2
  NSM3/NSM365
  NSM5
	
	11 dBi
	13.7 dBi
	16 dBi

Network interface	(2) 10/100 Ethernet ports
Maximum power consumption	8W
Power supply	24V, 0.5A PoE adapter (included)
Feeding method	Passive PoE (pairs 4, 5+ for the forward and 7, 8 for the reverse) return)
Mounting	Pole mount (kit included)
Operating temperature	-30 to 75° C (-22 to 167° F)

NanoStation M2/M3/M365/M5	
Operating humidity	5 to 95% non-condensing

Operating frequency (MHz) of NSM2/NSM3/NSM365	
NSM2	2412 - 2462
NSM3	3400 - 3700
NSM365	3650 - 3675

Operating frequency (MHz) of NSM5		
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
AC	5470 - 5600, 5650 - 5725, 5725 - 5850	

NanoStationlocoM2/M5/M9	

Dimensions
 	
  locoM9
 	
  locoM2/locoM5
	
	164 x 72 x 199mm
	(6.46 x 2.83 x 7.83")
	163 x 31 x 80mm
	(6.42 x 1.22 x 3.15")

Weight
  locoM9
  locoM2/locoM5
	
	0.9kg (31.75oz)
	0.18kg (6.35oz)

Revenue
  locoM9/locoM2
  locoM5
	
	8 dBi
	13 dBi

Network interface	(1) 10/100 Ethernet port

Maximum power consumption
  locoM9
  locoM2/locoM5
	
	6.5W
	5.5W

Power supply	24V, 0.5A PoE adapter (included)
Feeding method	Passive PoE (pairs 4, 5+ for the forward and 7, 8 for the reverse) return)
Mounting	Pole mount (kit included)
Operating tempurature	-30 to 75° C (-22 to 167° F)

NanoStationlocoM2/M5/M9	
Operating humidity	5 to 95% non-condensing

locoM2 Operating Frequency (MHz)	
Worldwide	2412 - 2462

Operating Frequency (MHz) of locoM5		
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
AC	5470 - 5600, 5650 - 5725, 5725 - 5850	

locoM9 Operating Frequency (MHz)	
Worldwide	902 - 928

Safety instructions

1. Read, follow and retain these instructions.

2. Heed all warnings.

3. Only use devices or accessories indicated by the manufacturer.

> ⚠️ **WARNING:**Do not use this product in a location where it may be submerged in water.

> ⚠️ **WARNING:**Avoid using this product during an electrical storm. There is a remote possibility of electric shock caused by lightning.

Electrical Safety Information

1. It is mandatory to comply with the current, frequency and voltage requirements indicated on the manufacturer's label. Connection to a power source other than those specified may result in incorrect operation, damage to the equipment or risk of fire if the limitations are not respected.

2. This equipment contains no operator-serviceable parts. Only a qualified service technician should perform service.

3. This equipment is supplied with a detachable power cord which has an integral safety earth wire designed to be connected to a safety earth socket.

a. Do not substitute the power cord with anything other than the approved type provided. Never use an adapter plug to connect to a two-wire outlet, as this will disrupt the continuity of the ground wire.

b. The equipment requires the use of the ground wire as part of the safety certification. Modification or improper use may result in a shock hazard, which could cause serious injury or death.

c. If you have any doubts about the installation, contact a qualified electrician or the manufacturer before connecting the equipment.

d. The AC adapter indicated provides a safety earth connection. For installation in a building, adequate back-up short-circuit protection must be provided.

e. A protective connection must be installed in accordance with national wiring rules and regulations.

Limited warranty

ui.com/support/warranty

The limited warranty requires the use of arbitration to resolve disputes on a case-by-case basis and, where appropriate, specifies arbitration rather than 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.

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 acceptable 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. Operation 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.

The FCC has approved this radio transmitter.

ISED Canada

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

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

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

ISED Canada has approved this radio transmitter.

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

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 a minimum distance of 20cm between the radiator and your body.

- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Australia and New Zealand

Warning: This equipment complies with Class A of CISPR 32. In a residential environment, this equipment may cause radio interference.

Brazil

Note:This equipment is not intended to protect against harmful interference and may not cause interference in duly authorized systems.

CE marking

The CE marking on this product indicates that the product complies with all applicable directives.

$$C\;E$$

List of countries

AT	BE	BG	CY	CZ	OF	DK EE		HE	IS	FI	FR	HR	HU
IE	ITEM	LV	LT	LU	MT	NL PL		PT	RO	HE	YEAH	SK	UK

Members with fixed broadband wireless access are featured in blue

Note:This device complies with the maximum transmit power limit according to ETSI regulations.

The following shall apply to products operating in the 5 GHz frequency range:

Note: This device is only suitable for indoor use when operating in the frequency range of 5150 - 5350 MHz in all member states.

Note: Operation in the 5.8 GHz frequency band is prohibited in Member States with fixed broadband wireless access. The remaining countries listed may use the 5.8 GHz frequency band.

WEEE Compliance Statement

Declaration of conformity

Online Resources