Package Contents



Reflector



Radome



Antenna Feed



Rear Housing



Mounting Bracket



Adjustment Bracket







Hex Bolts with Washers (Qty. 4)

Pole Clamp

Carriage Bolts (Qty. 2)







Flange Nuts (Qty. 2)

Screws with Washers (Qty. 4)

Washers (Qty. 4)







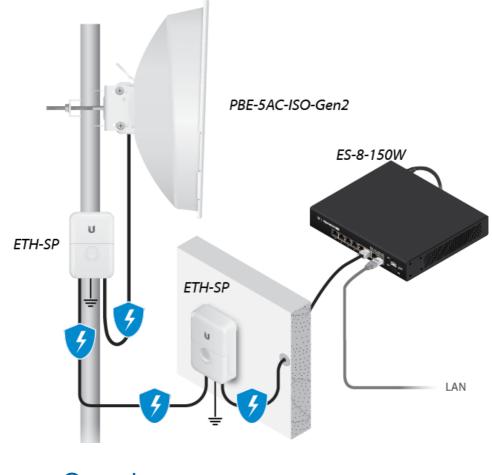
Nylon Insert Lock Nuts (Qty. Gigabit PoE (24V, 0.5A) with 4) Mounting Bracket Power Cord

Installation Requirements

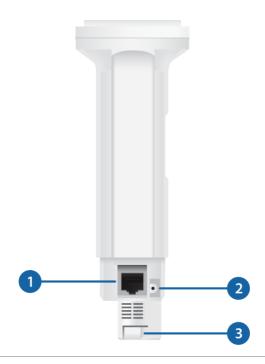
- 13 mm wrench
- Shielded Category 5 (or above) cabling with drain wire should be used for all wired Ethernet connections and should be grounded through the AC ground of the PoE.

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 PowerBeam and the other at the entry point to the building. The ETH-SP will absorb power surges and safely discharge them into the ground.



Hardware Overview



1 Ethernet

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

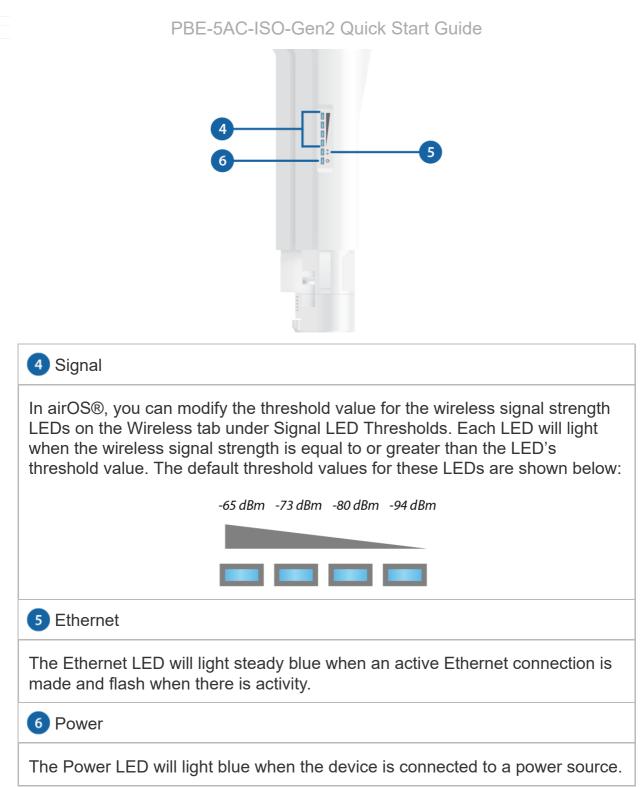
2 Reset Button

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 Gigabit PoE Adapter.

3 Release Button

After you assemble the PowerBeam, check the Release button; it should be fully engaged in the Release Button Slot of the Rear Housing. This ensures that the Antenna Feed is locked into place. If you need to remove the Antenna Feed, you must depress the Release button first.

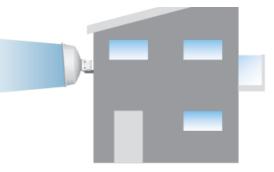
LEDs



Application Examples

The PowerBeam mounted outdoors with the Reflector installed provides directional outdoor coverage (gain is reflector-dependent).

PBE-5AC-ISO-Gen2 Quick Start Guide



The PowerBeam mounted outdoors without the Reflector installed provides outdoor-to-indoor coverage using the 3 dBi Antenna Feed only.



Installation







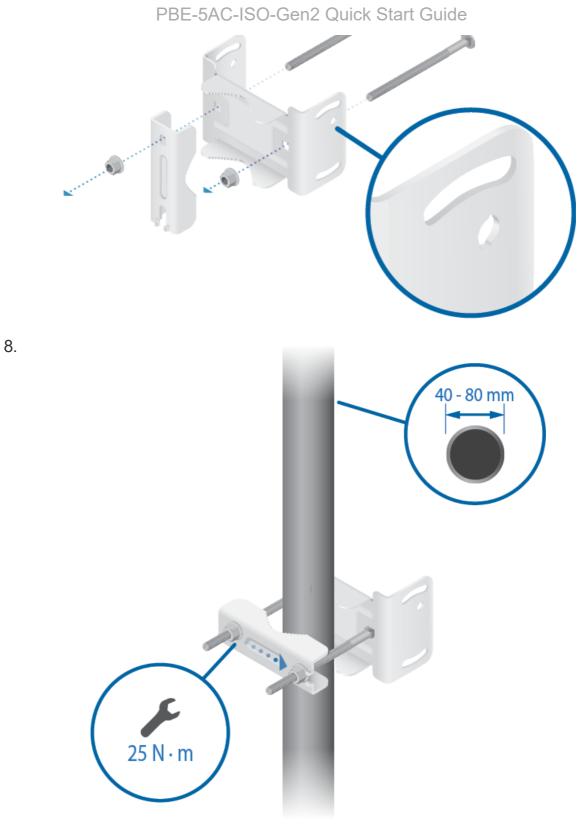


5.



6.







PBE-5AC-ISO-Gen2 Quick Start Guide









- 13. Adjust the elevation angle.
 - a. Loosen the four Hex Bolts on both sides of the antenna.
 - b. Pivot the antenna until the Elevation Indicator shows the desired elevation angle.
 - c. Tighten the four Hex Bolts.



14. Connect the power using:



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

Connecting to the PoE Adapter

- 1. Connect the Ethernet cable from the device to the POE port of the PoE adapter.
- 2. Connect an Ethernet cable from your LAN to the LAN port of the PoE adapter.
- 3. Connect the Power Cord to the adapter, and then plug the Power Cord into a power outlet.



Mounting the PoE Adapter (Optional)

- 1. Remove the PoE Mounting Bracket from the adapter, place the bracket at the desired location, and mark the two holes.
- 2. Pre-drill the holes if necessary, and secure the bracket using two fasteners (not included).
- 3. Align the adapter's slots with the tabs of the PoE Mounting Bracket, and then slide the adapter down.



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



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>

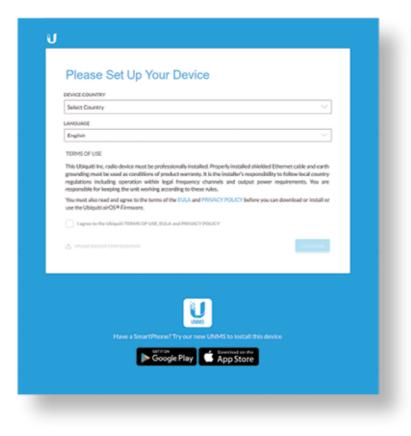


Note: Ensure that your Wi-Fi connection has DHCP enabled.

2. Launch your web browser and go to: http://setup.ui.com



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



0	create Your Username and Password
_	MANNER VOUR USERNAME
U	sername
OH	COSE & STRONG PASSWORD
P	ssword
008	rénem néw haáswoko
0	onfirm Password
	BACK SAVE
	Have a SmartPhone? Try our new UNMS to install this device Formation Constant of the State of t

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.

Antenna

applicable country. For a Custom antenna, Antenna Gain is entered manually. Note the requirements and antenna types listed below.

Cable Loss (When applicable)

Enter the cable loss in dB. Output power is adjusted to compensate for loss between the radio and the antenna.

Certified Antenna Types

This radio transmitter FCC ID: SWX-PBE5ACG2 / IC: 6545A-PBE5ACG2 has been approved by FCC / ISED Canada to operate with the antenna types listed below with the maximum permissible gain for each antenna type indicated. Antenna types not included in this list or having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Antenna	Frequency	Gain
Dish	5 GHz	25 dBi

Specifications

PBE-5AC-ISO-Gen2							
Dimensions (with Radome)	459 x 459 x 261 mm (18.07 x 18.07 x 10.28")						
Weight (Mount Included)	3.22 kg (7.10 lb)						
Gain	25 dBi						
Networking Interface	(1) 10/100/1000 Ethernet Port						
Enclosure	Outdoor UV Stabilized Plastic						
Max. Power Consumption	8.5W						
Power Supply	24V, 0.5A Gigabit PoE Adapter (Included)						
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)						
Wind Survivability	200 km/h (125 mph)						
Wind Loading	559 N @ 200 km/h (125.7 lbf @ 125 mph)						
Certifications	CE, FCC, IC						
Mounting	Pole Mounting Kit Included						
Operating Temperature	-40 to 70° C (-40 to 158° F)						
Operating Humidity	5 to 95% Noncondensing						
Shock and Vibrations	ETSI300-019-1.4						

งงบานพานษ		0100 - 0070					
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.
- 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 wire.
 - b. The equipment requires the use of the ground wire as a part of the safety certification, 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.

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.

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.

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 137 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 137 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.

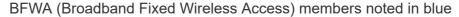
CE Marking

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



Country	List
Obuild y	LISU

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





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







© 2020 Ubiquiti Inc. All rights reserved.