



UBIQUITI NETWORKS PBE-M5-400 PowerBeam M5 25dBi High-Performance AirMax Bridge User Guide

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UBIQUITI NETWORKS PBE-M5-400 PowerBeam M5 25dBi High-Performance AirMax Bridge User Guide



Package Contents



- Reflector
- Antenna Feed*
- Rear Housing



- Mounting Bracket
- Pole Clamp
- U-Bolt



- Flange Nuts (Qty. 2)
- Gigabit PoE (24V, 0.5A) with mounting Bracket

- Power Cord

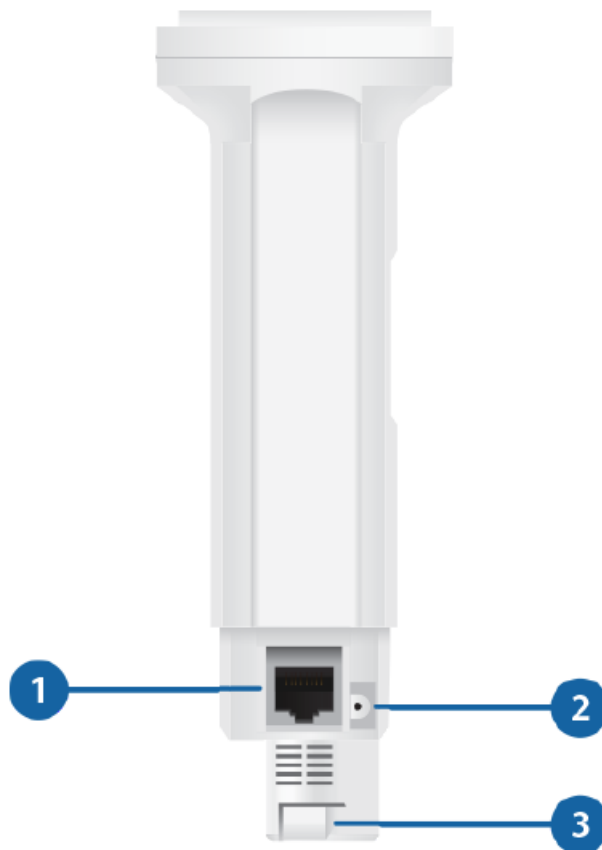
The PBE-M5-400 Antenna Feed has a thin gray ring around the center of the cap to differentiate it from the PBE-M5-300 Antenna Feed

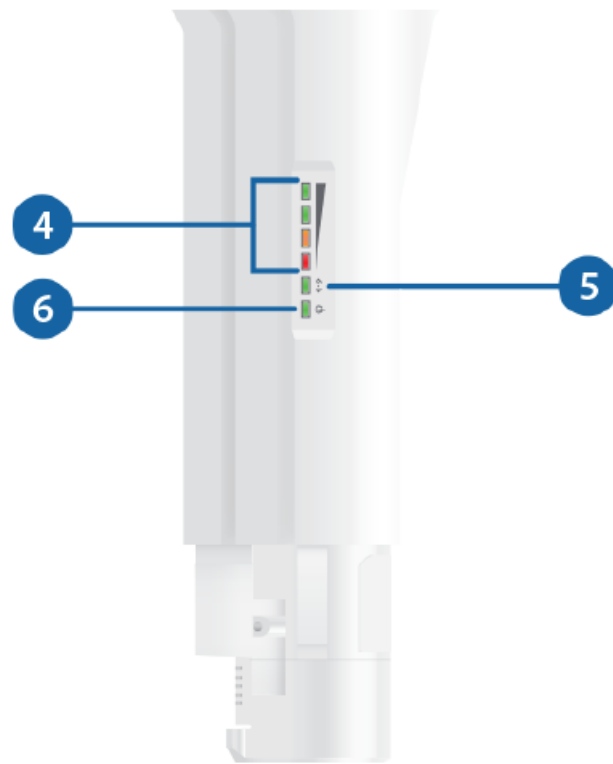
Installation Requirements

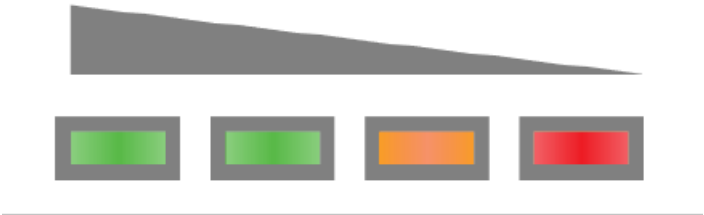
- 13 mm wrench
- Shielded Category 5 (or above) cabling should be used for all wired Ethernet connections and should be grounded through the AC ground of the PoE.

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](https://ui.com/toughcable)

Hardware Overview

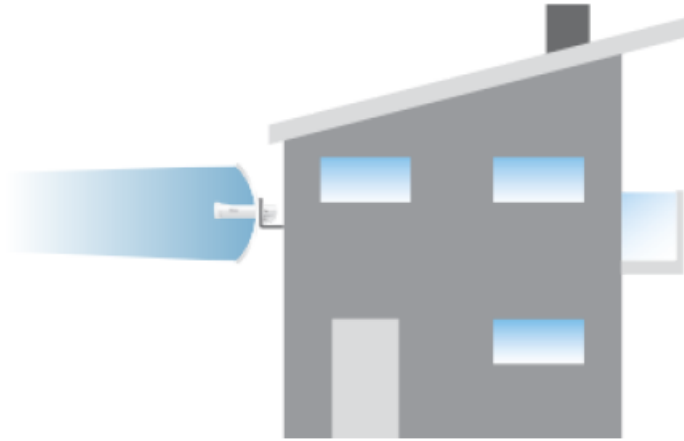




| |
|---|
| 1. Ethernet |
| This Gigabit Ethernet port is used to connect the power and should be connected to the LAN and DHCP server. |
| 2. Reset Button |
| To reset to factory defaults, press and hold the Reset button for more than 10 seconds while the device is powered on. Alternatively, the device may be reset remotely via a Reset button located on the bottom of the Gigabit PoE adapter. |
| 3. Release Button |
| After you assemble the device, 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. |
| 4. Signal LEDs |
| <p>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:</p> <div style="text-align: center;"> <p><i>-65 dBm -73 dBm -80 dBm -94 dBm</i></p>  </div> |
| 5. Ethernet LED |
| The Ethernet LED will light steady green when an active Ethernet connection is made and flash when there is activity. |
| 6. Power LED |
| The Power LED will light green when the device is connected to a power source. |

Application Examples

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

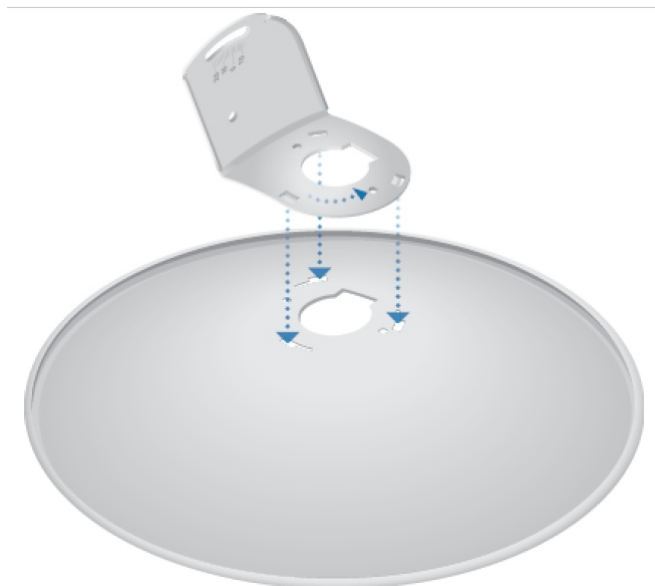


The PowerBeam mounted outdoors without the Reflector installed provides outdoor-to-indoor coverage using the 3 dBi Antenna Feed only.

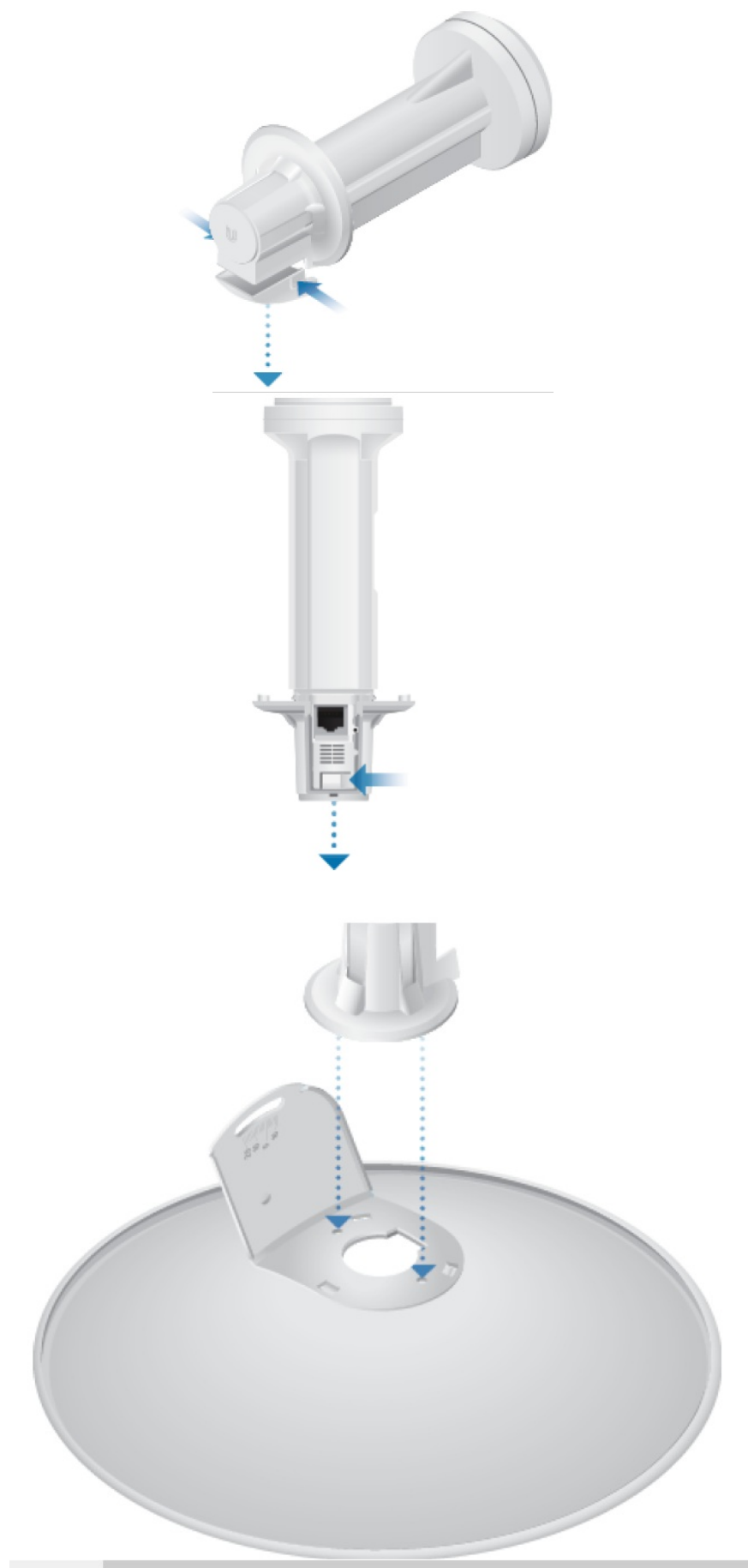


Installation

1.



2.



3.

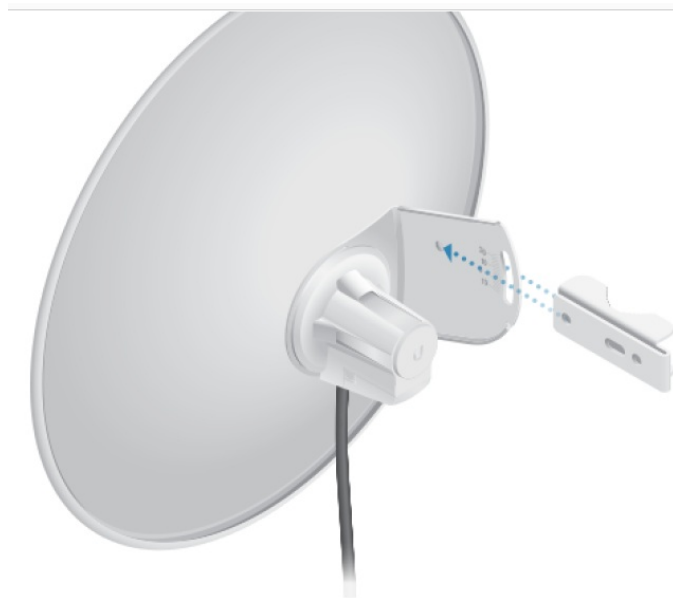
4.



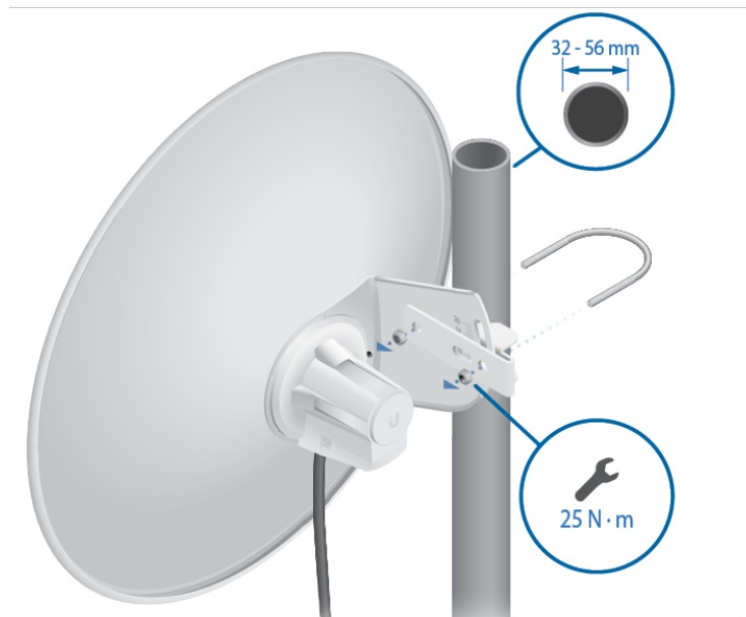
5.



6.



7.



Optional (radome not included)



Connecting Power

WARNING:

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



OR



Optional

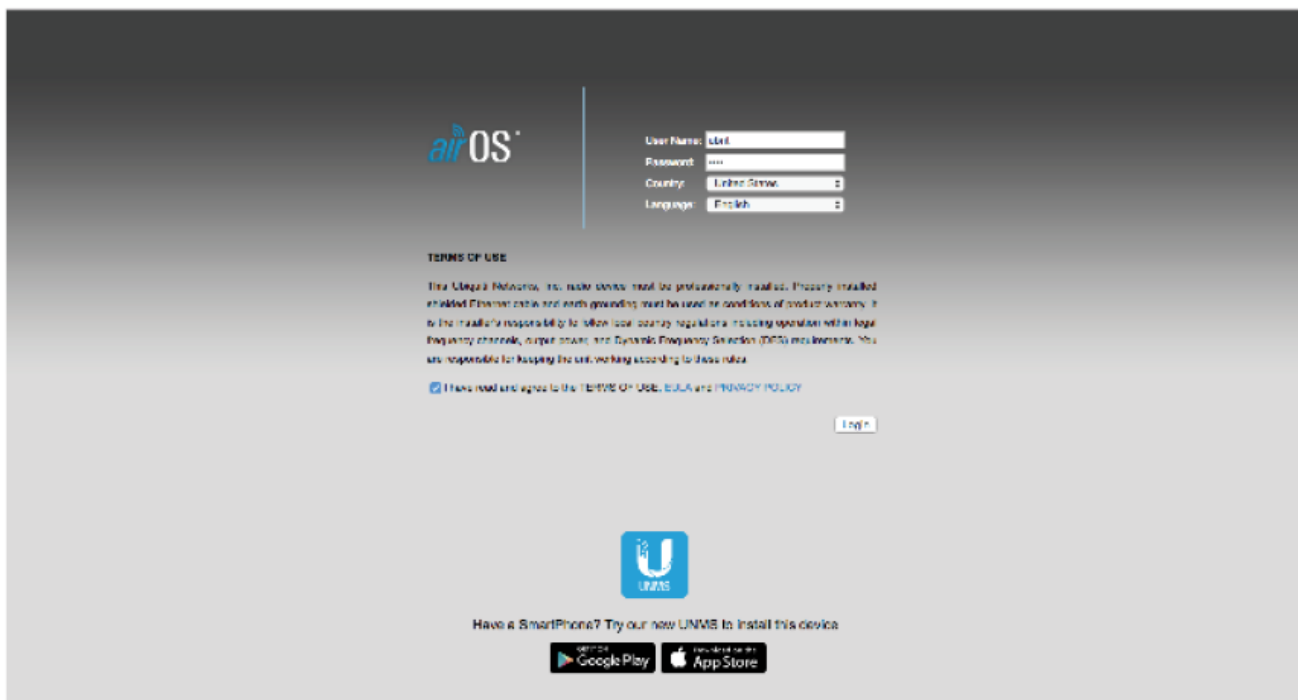


Accessing airOS

1. Make sure that your host system is connected via Ethernet to the device.
2. Configure the Ethernet adapter on your host system with a static IP address on the the192.168.1.x subnet.
3. Launch your web browser and type <https://192.168.1.20> in the address field. Press enter (PC) or Return (Mac).



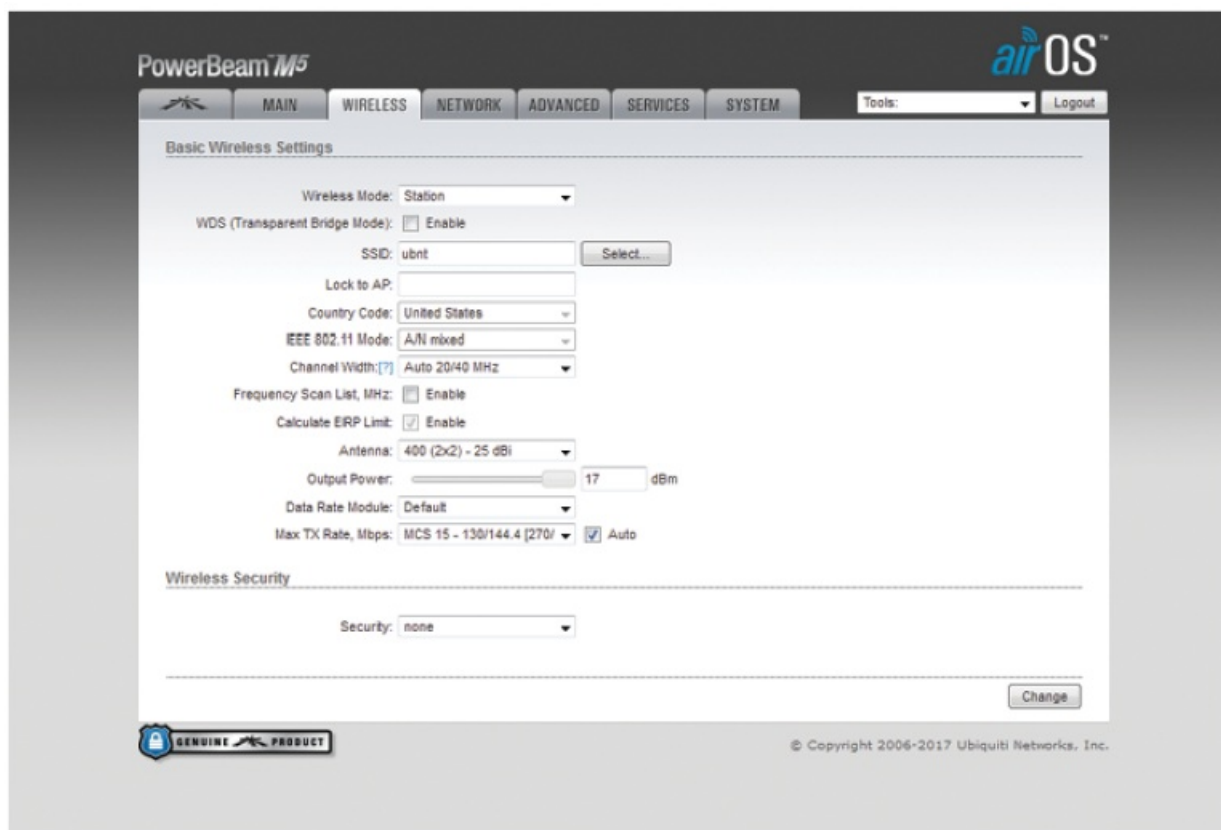
4. Enter ubnt in the Username and Password fields. Select your Country and Language. You must agree to the Terms of Use to use the product. Click Login



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.



Antenna

Select your antenna from the list. If Calculate EIRP Limit is enabled, transmit output power is automatically adjusted to comply with the regulations of the applicable country.

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

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-M5-400 | |
| Dimensions | 420 x 420 x 275 mm (16.54 x 16.54 x 10.83") |
| Weight (Mount Included) | 1.753 kg (4.789 lb) |
| Gain | 25 dBi |
| Networking Interface | (1) 10/100/1000 Ethernet Port |
| Enclosure | Outdoor UV Stabilized Plastic |
| Max. Power Consumption | 8W |
| Max. TX Power | 26 dBm |
| 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 | 342.5 N @ 200 km/h (77 lbf @ 125 mph) |
| Mounting | Pole Mounting Kit Included |
| Salt Fog Test | IEC 68-2-11 (ASTM B117), Equivalent: MIL-STD-810 G Method 509.5 |
| Vibration Test | IEC 68-2-6 |
| Temperature Shock Test | IEC 68-2-14 |
| UV Test | IEC 68-2-5 at 40° C (104° F) Equivalent: ETS 300 019-1-4 |
| Wind-Driven Rain Test | ETS 300 019-1-4 Equivalent: MIL-STD-810 G Method 506.5 |
| Operating Temperature | -40 to 70° C (-40 to 158° F) |
| Operating Humidity | 5 to 95% Noncondensing |
| Certifications | CE, FCC, IC |

| 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 |

Safety Notices

1. Read, follow, and keep these
2. Heed all warnings.
3. Only use attachments/accessories specified by the

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

1. 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.
 - 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.
 - 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.
4. Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment.
5. Protective earthing is provided by Listed AC adapter. Building installation shall provide appropriate short-circuit backup protection. 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.

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|---|---|
|  | <p>UBIQUITI NETWORKS PBE-M5-400 PowerBeam M5 25dBi High-Performance AirMax Bridge [pdf] User Guide</p> <p>PBE-M5-400, PowerBeam M5 25dBi High-Performance AirMax Bridge, PBE-M5-400 PowerBeam M5 25dBi High-Performance AirMax Bridge</p> |
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