



## NanoBeam™

High-Performance  
airMAX™ Bridge  
Models:  
NBE-M2, NBE-M5

## QUICK START GUIDE



### Introduction

Thank you for purchasing the Ubiquiti Networks™ NanoBeam™. This Quick Start Guide is designed to guide you through the installation of the NanoBeam and show you how to access the airOS™ Configuration Interface. This Quick Start Guide also includes the warranty terms and is for use with the NanoBeamM2, model NBE-M2, and the NanoBeamM5, model NBE-M5.

If you want to add a radome to enclose the Dish Reflector, Ubiquiti Networks offers the NanoBeam Radome, 400 mm, model NBE-RAD-400 as an optional accessory. Product details are available on our website at <http://www.ubnt.com>

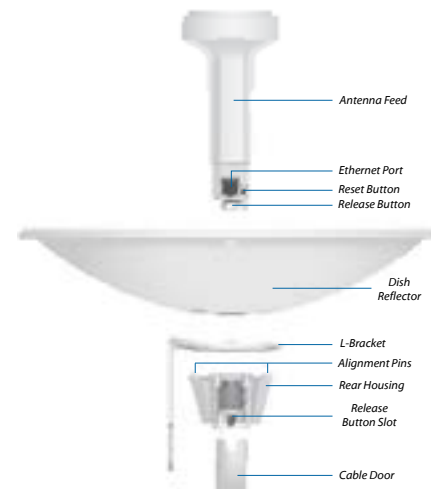
### Package Contents



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 customer's responsibility to follow local country regulations, including operation within legal frequency channels, output power, and Dynamic Frequency Selection (DFS) requirements.

### Hardware Overview

#### Bottom View



**Antenna Feed** The NanoBeamM2 *Antenna Feed* is shown; however, the NanoBeamM5 *Antenna Feed* has the same layout for the *Ethernet Port*, *Reset* button, and *Release* button.

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

**Release Button** After you assemble the NanoBeam, 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



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

- LED will light green when the wireless signal strength is above -65 dBm.
- LED will light green when the wireless signal strength is above -73 dBm.
- LED will light amber when the wireless signal strength is above -80 dBm.
- LED will light red when the wireless signal strength is above -94 dBm.

**Ethernet** The Ethernet LED will light steady green when an active Ethernet connection is made and flash when there is activity.

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

### Application Examples

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



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



### Installation Requirements

- 13 mm or 1/2" 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 the most brutal environments and devastating ESD attacks with industrial-grade shielded Ethernet cable from Ubiquiti Networks. For more details, visit [www.ubnt.com/toughcable](http://www.ubnt.com/toughcable)

### Installation

The installation instructions show the NanoBeamM2; however, the same instructions apply to the NanoBeamM5.

1. Align and insert the tabs of the *Dish Bracket* into the slots of the *Dish Reflector*. Rotate the *Dish Bracket* counter-clockwise until the tabs lock into place.



2. Line up the *Alignment Pins* of the *Rear Housing* with the alignment holes of the *Dish Bracket*. Insert the pins and push until they lock into place.



3. Push in the sides of the *Cable Door* and detach it from the *Rear Housing*.



4. Attach the *Antenna Feed*:
  - a. Insert the *Antenna Feed* into the *Rear Housing*, and push until it locks into place with a click.
  - b. Lightly pull the *Antenna Feed* to ensure that it is locked into place and the *Release* button is fully engaged.



Bottom View

5. Connect the Ethernet cable:
  - a. Connect an Ethernet cable to the *Ethernet Port* of the *Antenna Feed*.
  - b. Re-attach the *Cable Door* to the *Rear Housing*.



6. Slide the *Pole Clamp* onto the *Dish Bracket*.



7. Insert the *M8 U-Bolt* into the *Pole Clamp* and *Dish Bracket*. Secure each end of the *M8 U-Bolt* with a *M8 Flange Nut*.



**Note:** The mounting assembly can accommodate a  $\varnothing$  1.25" - 2.2" pole.

8. Optional: If you have the *NanoBeam Radome* (optional accessory), then align the arrows on the bottoms of the *Radome* and *Dish Reflector* so the *Drain Holes* on the *Radome* point downward. Snap the *Radome* onto the *Dish Reflector*.



9. Connect the other end of the Ethernet cable from the NanoBeam to the Ethernet port labeled **POE** on the *PoE Adapter*.



10. Connect an Ethernet cable from your LAN or computer to the Ethernet port labeled **LAN** on the *PoE Adapter*.



11. Connect the *Power Cord* to the power port on the *PoE Adapter*. Connect the other end of the *Power Cord* to a power outlet.



### Accessing airOS

Verify connectivity in the airOS Configuration Interface.

1. Make sure that your host machine is connected via Ethernet to the NanoBeam.
2. Configure the Ethernet adapter on your host system with a static IP address on the 192.168.1.x subnet.
3. Launch your web browser. Type <https://192.168.1.20> in the address field. Press **enter** (PC) or **return** (Mac).

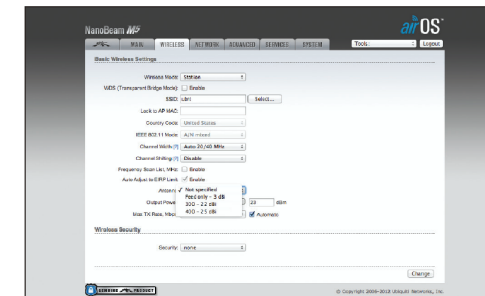


4. The login screen will appear. Enter **ubnt** in the *Username* and *Password* fields. Select your *Country* and *Language*. You must agree to the *Terms of Use* to use the product. Click **Login**.

**Note:** U.S. product versions are locked to the U.S. Country Code to ensure compliance with FCC regulations.



5. Select the NanoBeam *Dish Reflector* size:
  - a. Click the **Wireless** tab.
  - b. From the *Antenna* drop-down list, select the appropriate option.
  - c. Click **Change** to save.
  - d. Click **OK** to confirm.



Customize additional settings as needed to complete the configuration. For additional details on the airOS Configuration Interface, refer to the User Guide available at [documentation.ubnt.com/airmax](http://documentation.ubnt.com/airmax)

