PRIORITY: High

DATE: 5/12/16

TITLE: WIFI Device Installation and Setup for *1760250202 - KIT,WI-FI READY, UBIQUITI LOCOM5, P1760* **(A-Series Ubiquity Wi-Fi Kit)**

Overview

Two wireless units come with each Wi-Fi kit. They are used to transmit data from one point to another. The unit labeled ***Bridge*** (transmitter), will be located at, and connected to the network/computer. The ***Access Point*** (receiver) will be located at, and connected to the LED Display.

Wi-Fi wireless units are labeled with the following IP addresses (configured at the factory):
- ***Bridge*** – 192.168.1.231
- ***Access Point*** (AP) – 192.168.1.232

These instructions walk you through the mechanical Installation following ***Bridge*** and ***Access Point*** (AP) pair:

P/N 1760250202 - KIT,WI-FI READY, UBIQUITI LOCOM5, P1760 (A-Series Ubiquity Wi-Fi Kit)

Before you start

If you need assistance during the installation, contact Adaptive's Technical Support team at (414) 357-2020 ext. 519.

- You will need a computer with a web browser (Google Chrome or Windows Internet Explorer) and an Ethernet (or Ethernet crossover) cable, and/or access to the network for troubleshooting purposes
- Identify where the ***Bridge*** will be located and what computer / network it will be connected to.
- Identify the approximate location at the sign where the ***Access Point*** (AP) will be installed so you can assess the mounting requirements. DO NOT mount the Bridge to the sign casing.
- Consider possible sources of interference such as 2.4 GHz cordless phones, improperly shielded microwave ovens, wireless equipment that other companies may have installed in the area.
- Read through these instructions before installing and configuring the Bridge and Access Point.

When you install Ooh!Media, you may need the following information to setup the sign:
- Sign's IP Address : _____
- Subnet Mask: _____
- Default Gateway : _____
  * This network information can be obtained via the site's IT Administrator.

Note: Your Wi-Fi radios come pre-configured
There is no need to modify the Bridge or AP's settings to get them to function as standalone or over a network.
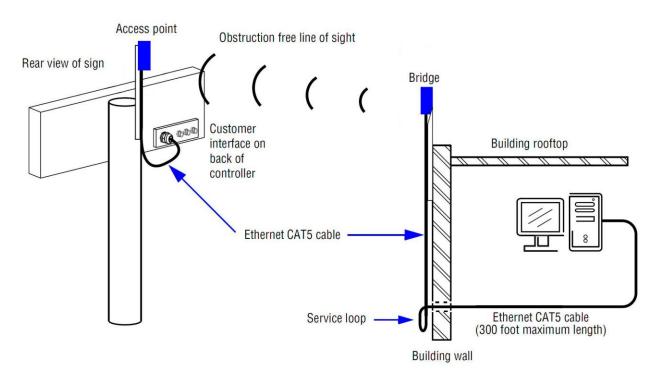
Tools And Equipment

Tools & Equipment	EX	EZ	A
Ethernet/Ethernet Crossover Cable	X	X	X
Ooh!Media Installation CD	X	X	X
Sign's network settings	X	X	X
Other tools for mounting the Bridge near the sign	X	X	X

WIFI Setup Diagram

* Only quantity one is used in the Wi-Fi setup installation. Signs are equipped with PoE injectors installed at the factory.

Overview of connecting a sign with the wireless WiFi option

*Note: A **Clear Line of Sight** between the Bridge and AP is the ideal / recommended solution and will result in a stronger wireless signal

Installation Best Practices

- A clear line of sight between devices is recommended to provide the best and most reliable operation/connection.

- Do not install Wi-Fi devices upside-down. Moisture and rain will run down the Ethernet cable and into the device causing it to fail. Failure due to improper installation is not covered by Adaptive Display Solution's warranty

- **Do not drill holes into or otherwise modify the case assembly of your LED Display. Doing so will void the LED Display's warranty**

- Position the Bridge and AP in such a way that the front of each device face each other, and are within a 45 degree vertical plane.
  - Note: The Wi-Fi devices carry a 45 degree vertical / 100 degree horizontal radiation pattern

*There is no "Recommended Distance" that is suggested when installing the Wi-Fi devices. Signal strength varies depending on location and other environmental factors.

P/N 1760250202 - KIT,WI-FI READY, UBIQUITI LOCOM5, P1760 (A-Series Ubiquity Kit)

Field upgrade / spare parts kit for signs that ship Wi-Fi ready

What's in the box?

- 1pc *Ubiquity NanoStation LocoM5* Wi-Fi Pair (P/N 12883020)
    - o   1pc Bridge and 1pc Access Point
- 2pcs *Ethernet cable*, 15ft (P/N 10889224)
- 1pc *Ubiquiti PoE Outdoor Adapter* (P/N 12883100)
- 2pcs *Mounting Brackets* (P/N 12883021)

Photo (P/N 1760250202)

Mounting Brackets
(P/N 12883021)

Ubiquity PoE Outdoor Adapter
(P/N 12883100)

Ubiquiti Wi-Fi Pair
(P/N 12883020)

Ethernet cable, 15ft
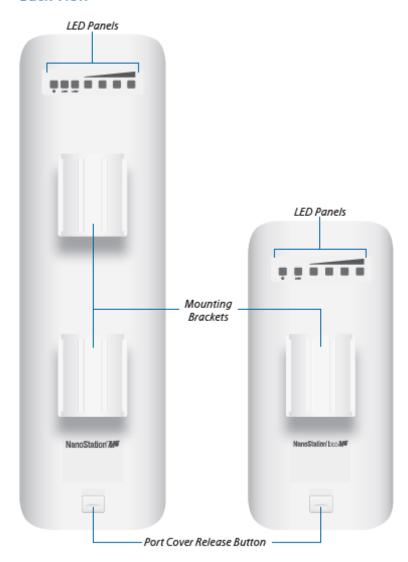(P/N 10889224)

Installation:

Field Note: Functionally; it does not matter which Wi-Fi gets installed first. Begin with what is most convenient.

Bridge: Mounts at Building / Customer Network.
Default IP: 192.168.1.231

Hardware Overview

Back View

LED Panels

LED Panels

Mounting Brackets

Port Cover Release Button

NanoStationM2/M3/M5

NanoStationlocoM2/M5

Hardware Installation

1. Press the *Port Cover Release Button* located on the back of the NanoStation and slide the cover off.
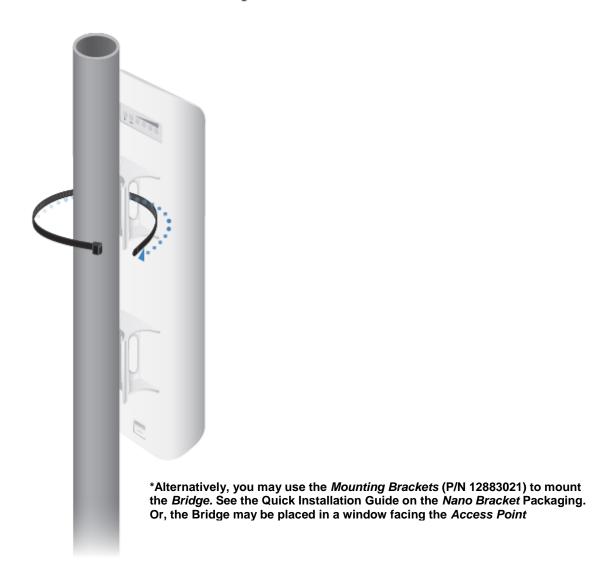

2. Connect an Ethernet cable to the *Main/LAN* port.

*Your Ubiquiti device will only have one port (LAN)

3. Replace the port cover.
4. Position the NanoStation at the desired location on a pole
   and insert a *Cable Tie* into the slot of the *Mounting Bracket.*

*Alternatively, you may use the *Mounting Brackets* (P/N 12883021) to mount the *Bridge*. See the Quick Installation Guide on the *Nano Bracket* Packaging. Or, the Bridge may be placed in a window facing the *Access Point*

5. Align the front of the NanoStation toward the other end of the wireless link. Then tighten the *Cable Tie* around the pole.

*Alternatively, you may use the *Mounting Brackets* (P/N 12883021) to mount the *Bridge.* See the Quick Installation Guide on the *Nano Bracket* Packaging. Or, the *Bridge* may be placed in a window facing the *Access Point*

Note: For the NanoStationM2/M3/M5, two *Cable Ties* are provided. Fasten the second *Cable Tie* to the other mounting bracket for added security.

Connecting Power over Ethernet

1. Connect the Ethernet cable from the NanoStation 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's power port. Connect the other end of the *Power Cord* to 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.
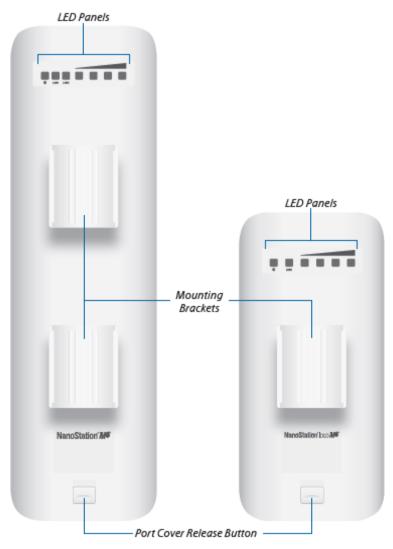
Access Point: **Mounts at LED Display.**
Default IP: 192.168.1.232

Hardware Overview

Back View

LED Panels

LED Panels

Mounting
Brackets

NanoStation M5

NanoStation loco M5

Port Cover Release Button

NanoStationM2/M3/M5

NanoStationlocoM2/M5

Hardware Installation

1. Press the *Port Cover Release Button* located on the back of the NanoStation and slide the cover off.

2. Connect the molded end of the Ubiquiti PoE Outdoor Adapter (P/N 12883100) to the *LAN* port.

*Your Ubiquiti device will only have one port (LAN)

3. Insert one end of the Ethernet cable, 15ft (P/N 10889224) into the RJ-45 port of the *Ubiquiti PoE Outdoor Adapter*

4. Replace the port cover
5. Position the *Access Point* at the desired location on a pole and insert a *Cable Tie* into the slot of the *Mounting Bracket*

**Alternatively, you may use the *Mounting Brackets* (P/N 12883021) to mount the *Access Point.* See the Quick Installation Guide on the *Nano Bracket* Packaging.*

6. Align the front on the Access Point toward the Bridge. Then tighten the Cable Tie around the pole

*Alternatively, you may use the *Mounting Brackets* (P/N 12883021) to mount the *Access Point*. See the Quick Installation Guide on the *Nano Bracket* Packaging.

Note: For the NanoStationM2/M3/M5, two *Cable Ties* are provided. Fasten the second *Cable Tie* to the other mounting bracket for added security.

7. Connect the other end of the *Ethernet cable, 15ft* (P/N 10889224) into the *RJ-45 port* of the *LED Display (Primary) and secure the watertight fitting.*

Rear view

Primary sign