

Mounting an Outdoor Antenna

This data sheet will help you visualize how your outdoor antenna will be installed at your location. Your actual equipment may vary from the antennas and brackets shown.

Cylindrical Yagi Antenna

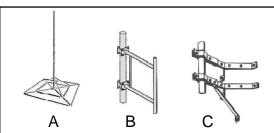
The baseplate on the antenna is attached to the mounting pole using supplied U-bolts.

Mounting Pole

Connect802 can supply a mounting pole as part of your order or you may choose to purchase a pole 1.25" – 1.5" OD locally. Aluminum antenna poles are available at home improvement stores and hardware stores that carry television antenna components.

Omnidirectional Dipole Antenna

The base of the antenna is attached to the mounting pole using U-bolts or clamps provided with the antenna.



Depending on your installation requirements you my use a non-penetrating roof mount (A), a stand-off mount (B), or wall-mounting "Y" brackets (C)

Mounting Brackets

The picture shows a pair of "Y" brackets used to attach a mounting pole to the side of a building. Alternatively you may be using a tripod roof mount or other method of securing a mounting pole.

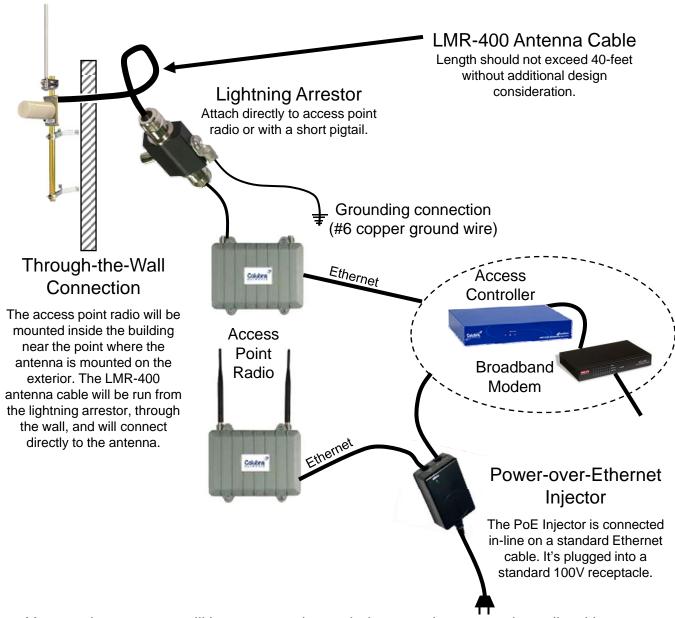
The picture above shows an example of how a dipole antenna and a cylindrical Yagi might be mounted to a 1.25" outside-diameter pole shown with "Y" mounting brackets for building wall attachment.

Your actual product order may include these or other types of antennas and mounting hardware but the basic assembly of the outdoor antenna mounting system will be similar.

You will need a mounting pole as shown. This pole is often attached to the side of a building but it may be attached to a light pole or other elevated structure. The mounting pole may be attached to a roof with a tripod mount or it may require guy-wires (depending on height).

Your antenna (or antennas) will attach to the mounting pole using appropriate clamps or bolts (which are supplied with each antenna).

Connecting an Indoor Radio to an Outdoor Antenna



Your outdoor antenna will be connected to an indoor-rated access point radio with up to 15-feet of LMR-400 antenna cable. A lightning arrestor will be installed at the access point either directly or through a short "pigtail" adapter cable.

All access point radios can be powered either by plugging them in directly (with a power adapter) or through the use of Power-over-Ethernet (PoE). A PoE injector allows the access point radio to be powered through a standard Ethernet cable up to 300-feet away.

Access point radios will be Ethernet-connected to either an Access Controller (for login access) or directly to a broadband router. The Access Controller provides DHCP and NAT services so, if an Access Controller is not used you will need an actual broadband router (as opposed to simply the DSL/Cable/T1 modem.



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