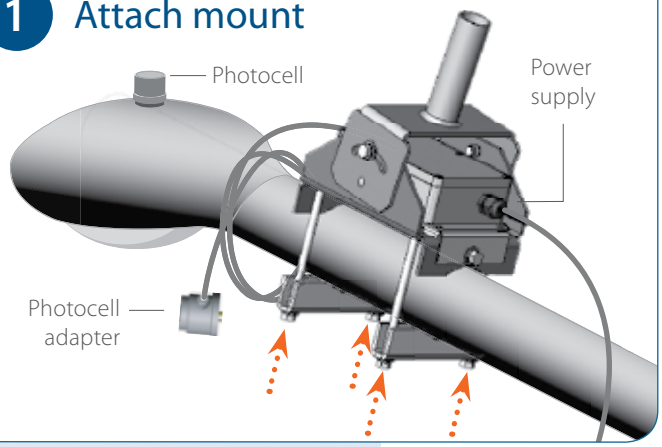
SkyPilot MetroPole mount kit

An all-in-one mounting and power solution for rapid rollout of wireless mesh infrastructure in metropolitan environments

SkyPilot MetroPole is a flexible mount solution that simplifies installation of SkyExtenders, SkyExtender DualBands, and SkyExtender TriBands on light poles up to 3 inches in diameter on an incline of 40 degrees or less.

Note The following procedure assumes installation with the optional MetroPole power supply, optimized for installation on light poles supplying power via photocell adapters.

1 Attach mount



Use the provided bolts and clamps to attach the mounting bracket to the pole. Position the mount so that cable terminating in a photocell adapter is oriented towards the photocell—usually attached to the top of the street lamp.

Parts List

bracket

Pole clamps

Hardware:

- 3/8-16x6" hex head bolts (4)
- 3/8 flat washers (4)
- 3/8 split washers (4)

MetroPole power supply with photocell adapter (ANSI 136.10-compliant) on a 3-foot or 20-foot cable (optional)

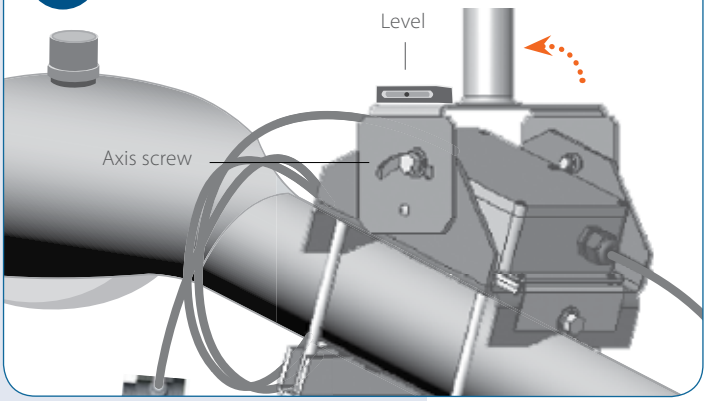
Tools

Level

Socket wrench with 3/8" socket

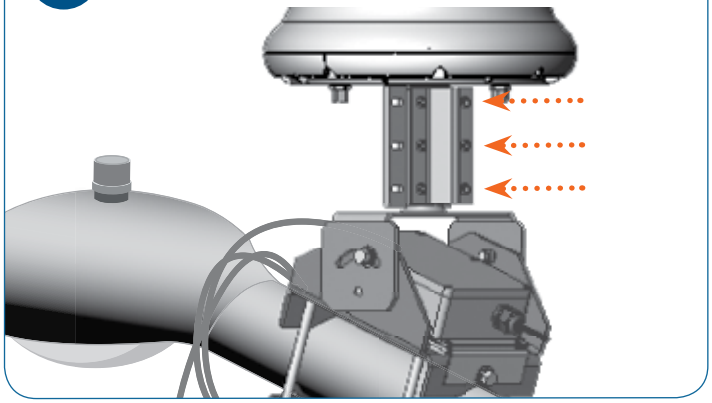
Philips screwdriver

2 Level the mount



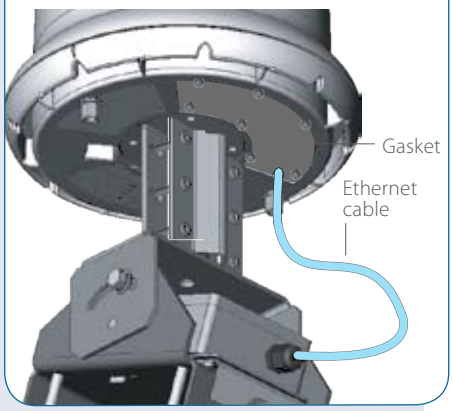
Use a precision level to rotate the mount stand into a plumb position. Tighten the axis screws to lock the stand into place.

3 Attach the SkyExtender



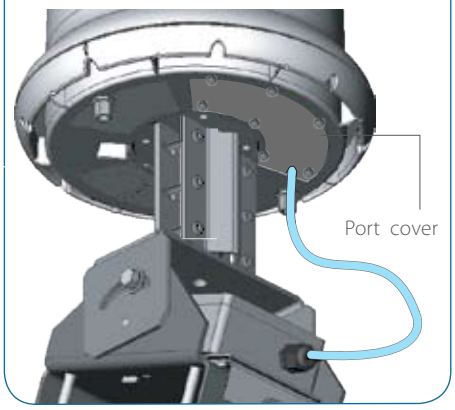
Use the provided mounting bracket to attach the SkyExtender to the pole mount. *Note: If you're installing a SkyExtender DualBand or SkyExtender TriBand, rotate the device to ensure there is ample room for the omnidirectional antennas to clear the mount stand.*

4 Connect power supply



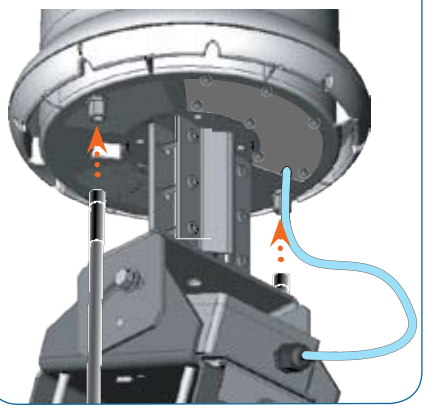
Run the CAT5 cable attached to the power supply through the gasket and plug it into the RJ-45 port on the SkyExtender base.

5 Secure cover and cabling



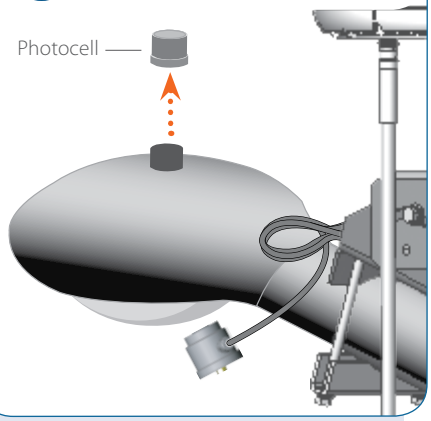
Attach the port cover with the provided screws, making sure the CAT5 cable passes through the cutout. Use cable ties to provide appropriate strain relief for cabling.

6 Attach antennas (optional)



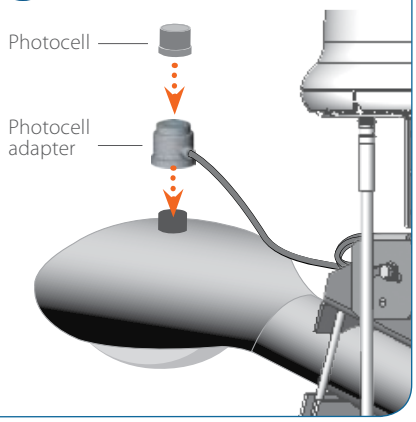
Attach the omnidirectional antennas to the connectors on the base of the SkyExtender DualBand or SkyExtender TriBand.

7 Unplug photocell



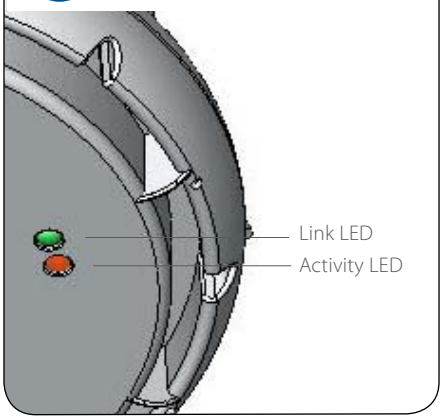
Locate the photocell on the light pole(usually located on top of the lumiere) and remove it from the socket.

8 Plug in adapter



Connect the photocell adapter to the photocell socket then reconnect the photocell by plugging it into the receptacle on top of the adapter. Make sure the excess photocell adapter cable is tightly wrapped and secured—the space under the mount stand will accommodate the coiled cable.

9 Check LEDs



As the device powers up, check the LEDs on the base of the SkyExtender. When both LED lights are lit and steady, the device is successfully connected to the network.

Grounding guidelines

Proper grounding protects both your SkyPilot device and equipment connected to it. For the surge protection circuitry built into the SkyPilot equipment to be effective, proper grounding of the unit is necessary. This is especially true if you are installing devices on tall structures, or in areas subject to lightning.

General grounding strategy

For light pole installations, a photocell adapter does not provide grounding. To ensure reliable service, you must properly ground the metal base of the SkyPilot device The most efficient way to ground the device is to clamp it to a steel or aluminum streetlight or signal arm providing a ground path between the SkyPilot equipment and a properly grounded arm. The table below provides guidelines for grounding different types of SkyPilot device installations.

Installation type	Grounding guideline
Metal arm mounted to a metal pole	Verify that the pole is properly grounded.
Metal arm mounted to a wooden pole	Verify that the arm is properly connected to an appropriately sized, properly grounded down lead.
MetroPole Jr. mounted on an ungrounded pole or other structure	Verify that the SkyPilot device is grounded with an appropriately sized down lead connected to the ground.

Making connections "gas tight"

Regardless of the grounding method you choose, make sure the connections are "gas tight;" capable of retaining low resistance and integrity over time and with exposure to the elements.

Use of an anti-oxide compound and proper sealing is essential. For protection against corrosion, wrap all connections with Scotch® 130C tape.

Notes

All SkyPilot devices must be configured to operate on wireless mesh network. For information on configuring and troubleshooting a SkyExtender, SkyExtender DualBand, or SkyExtender TriBand, see the documentation available from the SkyPIlot web site.

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671-00020-01 Rev. C