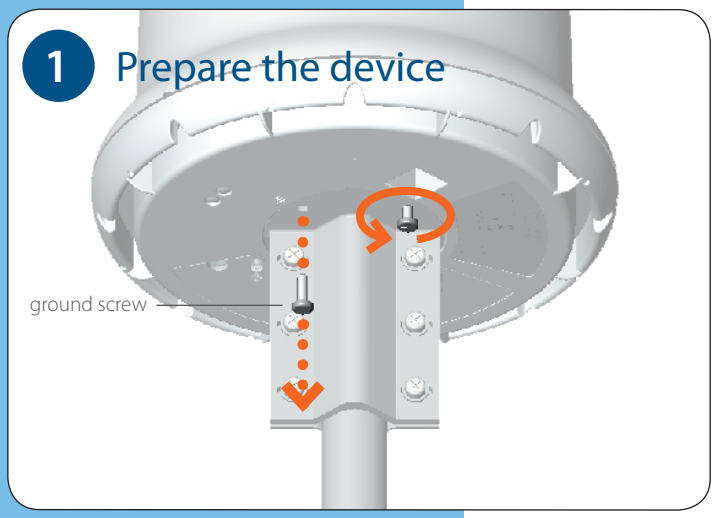
# SkyPilot Networks **Accessory Guide**

## SkyPilot Surge Protector

### Prevent power surge damage to SkyGateways and SkyExtenders

The SkyPilot Surge Protector provides an effective safeguard against power surges, including lightning strikes and AC voltage spikes. Designed to protect a SkyGateway or SkyExtender using Power over Ethernet (PoE), the Surge Protector protects your investment by preventing circuit damage and eliminating costly downtime.

### 1 Prepare the device




Remove the ground screw from the base of the device, and then loosen (but do not remove) the screw on the same side of the bracket as the ground screw.

### Parts List

Surge protector box with:

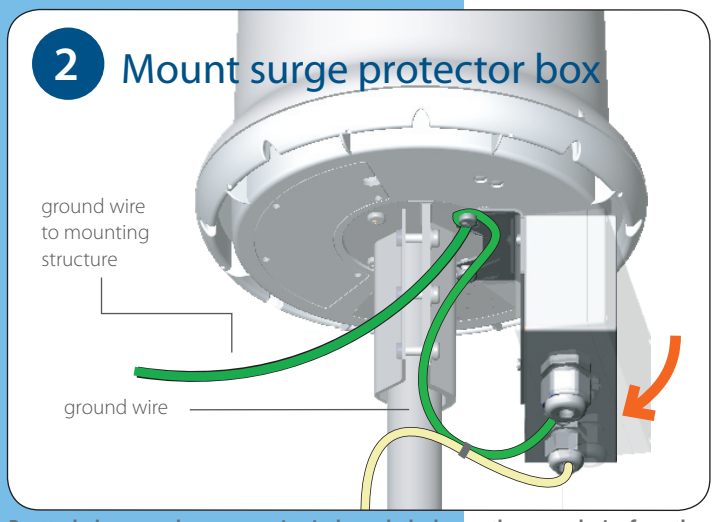
- Ethernet cable seal
- Surge protector ground cable
- 24" CAT-5 shielded Ethernet cable
- Surge protector mounting bracket

Cable tie

Crimp lug

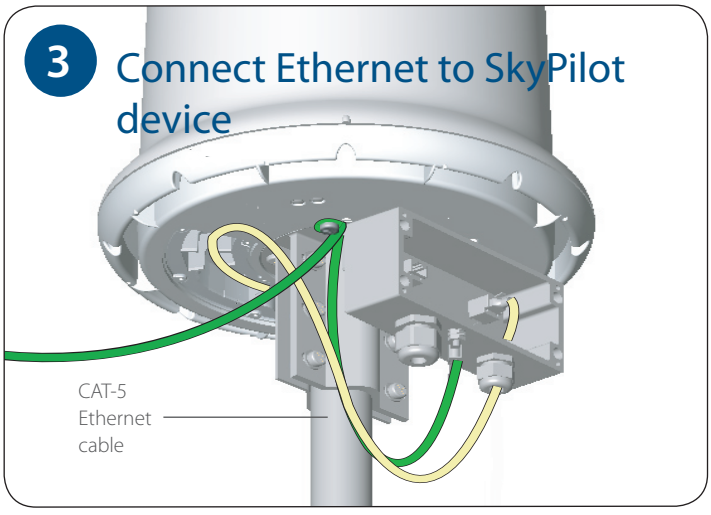
Accessory guide

### 2 Mount surge protector box



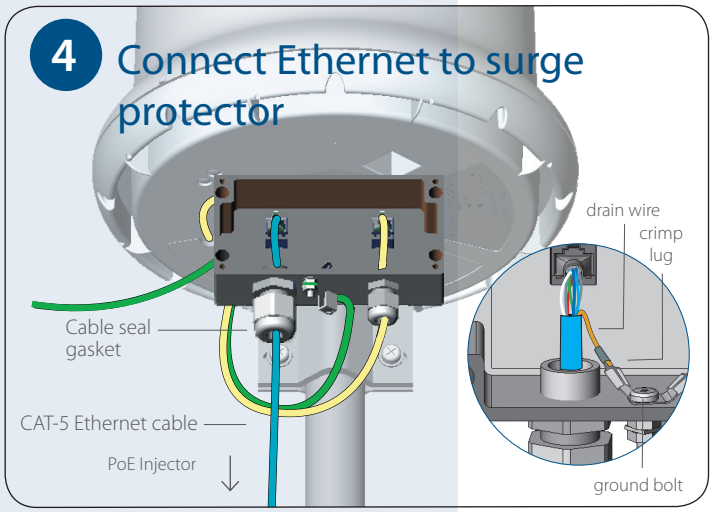

Reattach the ground screw, running it through the lug on the ground wire from the surge protector box, the mounting bracket on the box, and the lug on the ground wire from the SkyPilot device. Pivot the box into place and tighten the screws.

### 3 Connect Ethernet to SkyPilot device



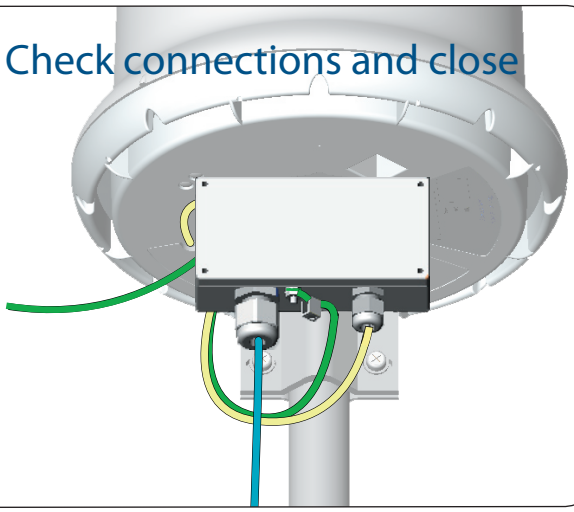

Remove the cable cover plate from the SkyGateway/SkyExtender. Remove the cover plate from the surge protector box. Plug the Ethernet cable extending from the surge protector box into the Ethernet connector on the SkyPilot device.

## 4 Connect Ethernet to surge protector




Route the CAT-5 shielded Ethernet cable from the PoE Injector through the cable seal gasket. Separate the drain wire from the cable and plug the cable into the connector labeled LINE. Attach the drain wire to the provided crimp lug and push the lug onto the tab extending from the internal ground bolt.

## 5 Check connections and close



Check the connections and reattach the surge protector box cover plate.

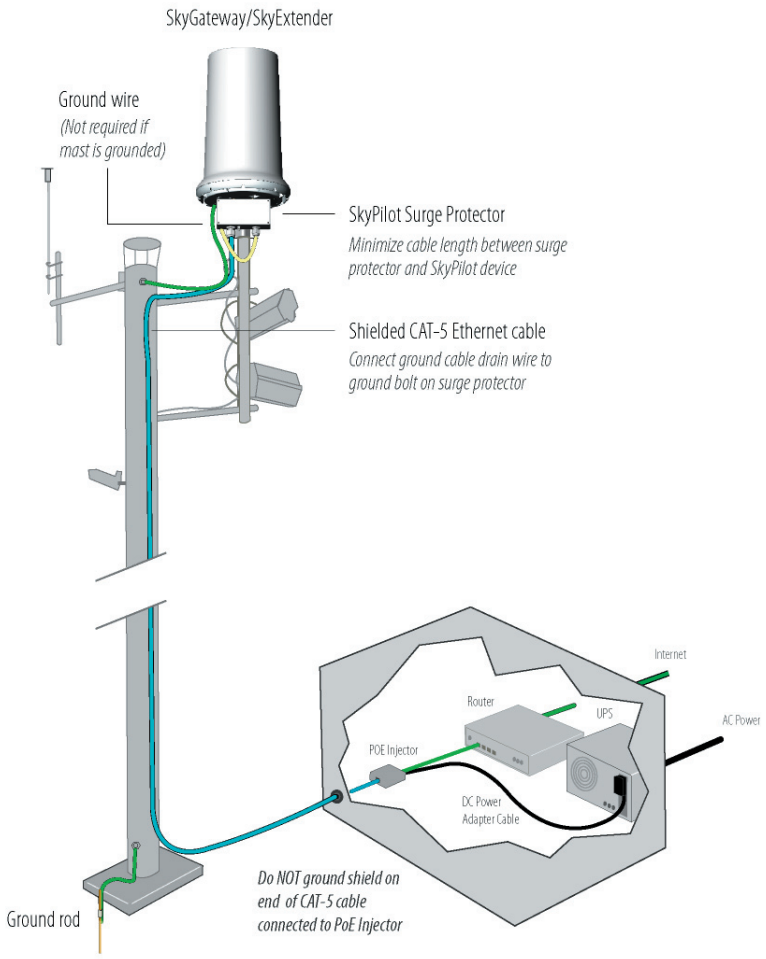
### A typical installation

The figure on the right shows a typical tower installation for a SkyPilot SkyGateway/SkyExtender with surge protection.

Proper grounding is critical. Verify that the tower is grounded to earth and that the surge protector is grounded to the tower via a tie point on the SkyPilot device. (If the SkyPilot device is on a grounded mast, a ground wire to the mast is not required.)

Use shielded, outdoor-rated CAT-5 Ethernet cable to connect the PoE injector to the surge protector. Shielded cable usually provides an additional ground wire (also known as a drain wire) that you can attach to the surge protector's ground terminal.

Never connect a shield to ground at both ends. This creates a ground loop allowing earth current to flow back through the shield, causing noise on the data lines.

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