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About this guide

This guide describes how to install the site equipment for PTP 670 Series links. Users of this guide must follow good practice for outdoor radio installations.

In more advanced configurations, there may be one or two additional Ethernet interfaces connected to the ODU: one to the SFP port (copper or optical) and one to the AUX port. For details of these configurations, refer to the PTP 670 Series User Guide.

Version information

Document number and version: phn-4489_002v000 (June 2017).

User documentation

For full PTP 670 installation planning instructions and a list of components, download the PTP 670 Series User Guide from: http://support.cambiumnetworks.com/files/ptp670

Waste Electrical and Electronic Equipment (WEEE)

For instructions on waste disposal of used products, refer to http://www.cambiumnetworks.com/support/weee-compliance

EU Declaration of Conformity

Hereby, Cambium Networks declares that the Cambium PTP 670 Series Wireless Ethernet Bridge complies with the essential requirements and other relevant provisions of Directive 1999/5/EC. The declaration of conformity may be consulted at: http://www.cambiumnetworks.com/support/compliance/

Safety

Warning

To prevent loss of life or physical injury, observe the safety guidelines below. In no event shall Cambium Networks be liable for any injury or damage caused during the installation of the Cambium PTP 670. Ensure that only qualified personnel install a PTP 670 link.

Power lines

Exercise extreme care when working near power lines.

Working at heights

Exercise extreme care when working at heights.

PSU

Always use the AC+DC Enhanced Power Injector to power the ODU. Failure to use a Cambium supplied PSU could result in equipment damage and will invalidate the safety certification and may cause a safety hazard.
Grounding and protective earth
The Outdoor Unit (ODU) must be properly grounded to protect against lightning. It is the user’s responsibility to install the equipment in accordance with national regulations. In the USA follow the requirements of the National Electrical code NFPA 70-2005 and 780-2004 Installation of Lightning Protection Systems. In Canada, follow Section 54 of the Canadian Electrical Code. These codes describe correct installation procedures for grounding the outdoor unit, mast, lead-in wire and discharge unit, size of grounding conductors and connection requirements for grounding electrodes. Other regulations may apply in different countries and therefore it is recommended that installation of the outdoor unit be contracted to a professional installer.

DC supply
To power the ODU from a DC supply, use the AC+DC enhanced power injector (PSU) (Cambium part number C000065L002C). Ensure that the DC power supply meets the requirements specified in the PTP 670 Series User Guide.

Powering down before servicing
Before servicing PTP 670 equipment, always switch off the power supply and unplug it from the PSU. Do not disconnect the RJ45 drop cable connectors from the ODU while the PSU is connected to the power supply. Always remove the AC or DC input power from the PSU.

Primary disconnect device
The main power supply is the primary disconnect device. The AC-DC enhanced power injector is fused on the DC input. Some installations will also require an additional circuit breaker or isolation switch to be fitted in the DC supply.

External cables
Safety may be compromised if outdoor rated cables are not used for connections that will be exposed to the outdoor environment. For outdoor copper Cat5e Ethernet interfaces, always use Cat5e cable that is gel-filled and shielded with copper-plated steel. Alternative types of drop cable are not supported by Cambium Networks for use with PTP 670.

Drop cable tester
A drop cable tester must NEVER be used at the ODU end connected to the power supply from the PSU. It must only be used at the bottom of the mast with a multimeter. This is because the PSU voltage exceeds the limit allowed in some countries for safe handling in wet conditions and therefore may create a safety hazard.

RF exposure near the antenna
Strong radio frequency (RF) fields will be present close to the antenna when the transmitter is on. Always turn off the power to the ODU before undertaking maintenance activities in front of the antenna.

Minimum separation distances
Ensure that personnel are not exposed to unsafe levels of RF energy. The units start to radiate RF energy as soon as they are powered up. Never work in front of the antenna when the ODU is powered. Install the ODU so as to provide and maintain the minimum separation distances from all persons. For minimum separation distances, see the PTP 670 Series User Guide.

Grounding and lightning protection requirements
Ensure that the installation meets the requirements defined in the PTP 670 Series User Guide.
Grounding cable installation methods

To provide effective protection against lightning induced surges, observe these requirements:

- Grounding conductor runs must be as short, straight and smooth as possible, with bends and curves kept to a minimum.

- Grounding cables must not be installed with drip loops.

- All bends must have a minimum radius of 203 mm (8 in) and a minimum angle of 90°. A diagonal run is preferable to a bend, even though it does not follow the contour or run parallel to the supporting structure.

- All bends, curves and connections must be routed towards the grounding electrode system, ground rod, or ground bar.

- Grounding conductors must be securely fastened.

- Braided grounding conductors must not be used.

- Approved bonding techniques must be used for the connection of dissimilar metals.

Siting ODUs and antennas

ODUs and external antennas are not designed to survive direct lightning strike. For this reason they must be installed in Zone B as defined in PTP 670 Series User Guide. Mounting in Zone A may put equipment, structures and life at risk.
A PTP 670 site typically consists of a high supporting structure such as a mast, tower or building for the outdoor equipment (ODU and optional external antenna); and an equipment building or moisture-proof enclosure for the indoor equipment (PSU), as shown here in a typical mast or tower installation:

![Diagram of typical PTP 670 deployment](image)

**Note**
These instructions assume that LPUs are being installed from the LPU and grounding kit (Cambium part number C000065L007A). If the installation does not require LPUs, adapt these instructions as appropriate.

If LPUs are being installed, only use the five black-capped EMC cable glands supplied in the LPU and grounding kit. The silver-capped cable glands supplied in the ODU kits must only be used in PTP 670 installations which do not require LPUs.
ODU variants

The PTP 670 ODU is supplied in two platform variants.
The PTP 670 Integrated ODU is attached to a 23 dBi flat plate antenna and is intended for medium to long-range difficult links and traditional backhaul requirements where high capacity and high link budget are required. The integrated antenna offers a convenient and easily-deployed solution where the additional gain of external antennas is not needed.

Integrated ODU (4.8 to 5.9 GHz)

Integrated ODU (4.9 to 6.05 GHz)
The PTP 670 Connectorized ODU is intended to work with separately mounted external antennas. External antennas generally have higher gains than the integrated antennas, allowing the PTP 670 to cope with more difficult radio conditions.

**Mounting bracket options**

The PTP 670 series supports three mounting bracket options. Select the optimum mounting bracket arrangement based on the pole diameter and the ODU variant:

<table>
<thead>
<tr>
<th>Bracket</th>
<th>Pole diameter</th>
<th>ODU variants</th>
<th>Bracket part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilt Bracket Assembly</td>
<td>40 mm to 77 mm (1.6 inches to 3.0 inches)</td>
<td>PTP 670 Integrated PTP 670 Connectorized</td>
<td>N000045L002A</td>
</tr>
<tr>
<td>Tilt Bracket Assembly with compression straps</td>
<td>90 mm to 230 mm (3.6 inches to 9.0 inches)</td>
<td>PTP 670 Integrated PTP 670 Connectorized</td>
<td>N000045L002A + third-party band clamps</td>
</tr>
<tr>
<td>Mounting Bracket (Integrated)</td>
<td>40 mm to 82 mm (1.6 inches to 3.2 inches)</td>
<td>PTP 670 Integrated</td>
<td>N000065L031A</td>
</tr>
</tbody>
</table>

**Note**
The Tilt Bracket Assembly is included as part of the PTP 670 Integrated and Connectorized Kits. If required, order the Mounting Bracket (Integrated) separately.

**Note**
The Tilt Bracket Assembly allows for elevation angle adjustment for the Integrated ODU between −17° and +26°. The Mounting Bracket (Integrated) allows for elevation angle adjustment between −26° and +41°.
Installing the ODU and top LPU

Attach ground cables to the ODU

1 Fasten one ground cable to each ODU grounding point using the M6 (small) lugs: one is for the top LPU (M6 lug at other end) and the other is for the tower or building (M10 lug at other end). It does not matter which cable goes on which ODU grounding point.

2 Tighten both ODU grounding bolts to a torque of 5.0 Nm (3.7 lb ft).

Mount the ODU on the mast

Select the most appropriate bracket mounting arrangement from the options listed in Mounting bracket options on page 8. Refer to individual procedures below for each of the options:

- Tilt Bracket Assembly on page 9
- Tilt Bracket Assembly with band clamps on page 10
- Mounting bracket (Integrated) on page 11

The mounting procedures can be adapted to attach the ODU to a suitable horizontal pole, but the adjustment of azimuth angle is necessarily limited compared with an installation on a vertical pole.

Tilt Bracket Assembly

1 Fix the mounting plate of the Tilt Bracket to the back of the ODU using four of the short bolts, ensuring that the arrow in the plate points towards the top of the ODU. Tighten the four bolts to a torque setting of 5.0 Nm (3.7 lb ft) using a 13 mm spanner or socket.

2 Fit the two long bolts through the bracket body so that the bolt heads engage in the slots as shown. Fit two of the short bolts into the side of the bracket body but do not tighten.

3 Thread two of the nuts to the long bolts and tighten against the bracket body using a 13 mm spanner. Fit the bracket strap and thread the remaining nuts onto the long bolts.

4 Fix the assembled bracket body to the pole, adjust the azimuth angle, and tighten the nuts to a torque setting of 10.0 Nm (7.4 lb ft) using a 13 mm spanner, ensuring that the arrow in the body is pointing upwards.

5 Hoist the ODU to the mounting position. Fit the mounting plate to the bracket body by positioning the open-ended slots over the short bolts. Insert the remaining short bolts through the longer curved slots into the threaded holes in the bracket body. Adjust the elevation angle, and tighten the bolts to a torque setting of 8.0 Nm (5.9 lb ft) using a 13 mm spanner or socket.
Tilt Bracket Assembly with band clamps

1  Follow Step 1 for the Tilt Bracket Assembly procedure above.

2  Feed the band clamps (not supplied by Cambium) through the slots in the bracket body. Secure the bracket body to the pole using band clamps, ensuring that the arrow in the body is pointing upwards. Adjust the azimuth angle, and tighten the band clamps to a torque setting of 6.0 Nm (4.5 lb ft).

3  Hoist the ODU to the mounting position. Fix the mounting plate to the bracket body with four of the short bolts, using a 13 mm spanner or socket. Adjust the elevation angle, and tighten the bolts to a torque setting of 8.0 Nm (5.9 lb ft).
Mounting bracket (Integrated)

1 Fix the mounting plate to the back of the ODU using the four bolts, and spring and plain washers provided. Ensure that the spring washer is between the bolt head and the plain washer. Tighten the bolts to a torque setting of 5.0 Nm (3.7 lb ft).

2 Attach the bracket body to the mounting plate using the M8 bolt, spring and plain washers. Ensure that the spring washer is between the bolt head and the plain washer.

3 Hoist the ODU to the mounting position.

4 Attach the bracket body to the pole using the bracket clamp, M8 bolts, and spring and plain washers. Ensure that the spring washer is between the bolt head and the plain washer. For back-to-back mounting, use the LPU in place of the clamp.

5 Adjust the elevation and azimuth to achieve visual alignment. Tighten all three bracket bolts to a torque of 8.0 Nm (6.0 lb ft).

---

Caution

Do not reverse the bracket clamp, as shown in 7 above as this arrangement may lead to failure of the assembly. Do not over-tighten the bolts as this may lead to failure of the assembly.
Mount the top LPU

For separate LPU mounting, use the U-bolt bracket from the LPU kit to mount the top LPU on the pole below the ODU. Tighten to a torque setting of 7.0 Nm (5.2 lb ft):

Interconnect and ground the ODU and top LPU

**Option 1: back-to-back**
- Mounting pole
- LPU mounted back-to-back with the ODU
- ODU to top LPU ground cable
- ODU to top LPU drop cable
- Grounding points at opposite sides of ODU
- Drop cable grounding point
- ODU to grounding system
- Drop cable to bottom LPU

**Option 2: separate**
- Mounting pole
- ODU mounted on pole with bracket
- Top LPU mounted on pole with U-bolt from LPU kit
- ODU to top LPU ground cable
- ODU to top LPU drop cable
- Grounding points at opposite sides of ODU
- ODU to grounding system
- Drop cable grounding point
- ODU to top LPU ground cable
- ODU to top LPU drop cable
- Grounding points at opposite sides of ODU
- ODU to grounding system
- Drop cable to bottom LPU
Caution
Do not attach grounding cables to the ODU mounting bracket bolts, as this arrangement will not provide full protection.

1 Fasten the ODU grounding cable to the top LPU using the M6 (small) lug. Tighten both nuts to a torque of 5 Nm (3.7 lb ft):

2 Select a tower or building grounding point within 0.3 meters (1 ft) of the ODU bracket. Remove paint from the surface and apply anti-oxidant compound. Fasten the ODU grounding cable to this point using the M10 (large) lug.

3 If local regulations mandate the independent grounding of all devices, add a third ground cable to connect the top LPU directly to the grounding system.

Install external antennas for a Connectorized ODU

- RF cable
- CAT5e cable
- PTP 670 ground cable
- Site grounding system
- Lightning arrestors
- Equipment building or cabinet
- Connectorized ODU
- AC supply
- PSU
- Network equipment
- Ground ring
- RF cables to antenna
1 Mount the antenna(s) according to manufacturer’s instructions. When using separate antennas to achieve spatial diversity, mount one with Horizontal polarization and the other with Vertical polarization.

2 Connect the ODU V and H interfaces to the antenna(s) with RF cable of type CNT-400 (Cambium part numbers 30010194001 and 30010195001) and N type connectors (Cambium part number 09010091001). Tighten the N type connectors to a torque setting of 1.7 Nm (1.3 lb ft) using 24 mm (0.9 in) wrench/spanner.

3 If the ODU is mounted indoors, install lightning arrestors at the building entry point:

4 Form drip loops near the lower ends of the antenna cables. These ensure that water is not channeled towards the connectors.

5 If the ODU is mounted outdoors, weatherproof the N type connectors (when antenna alignment is complete) using PVC tape and self-amalgamating rubber tape.

6 Weatherproof the antenna connectors in the same way (unless the antenna manufacturer specifies a different method).

7 Ground the antenna cables to the supporting structure within 0.3 meters (1 foot) of the ODU and antennas using the Cambium grounding kit (part number 01010419001):

8 Fix the antenna cables to the supporting structure using site approved methods. Ensure that no undue strain is placed on the ODU or antenna connectors. Ensure that the cables do not flap in the wind, as flapping cables are prone to damage and induce unwanted vibrations in the supporting structure.
Installing the copper Cat5e Ethernet interface

To install the copper Cat5e Ethernet interface, use the following procedures:

- **Install the ODU to top LPU drop cable** on page 15
- **Install the main drop cable** on page 17
- **Install the bottom LPU to PSU drop cable** on page 19
- **Test resistance in the drop cable** on page 21

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**Caution**

To avoid damage to the installation, do not connect or disconnect the drop cable when power is applied to the PSU or network terminating equipment.

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**Caution**

Do not connect the SFP or Aux drop cables to the PSU, as this may damage equipment.

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**Caution**

Always use Cat5e cable that is gel-filled and shielded with copper-plated steel. Alternative types of Cat5e cable are not supported by Cambium Networks. Cambium Networks supply this cable (Cambium part numbers WB3175 and WB3176), RJ45 connectors (Cambium part number WB3177) and a crimp tool (Cambium part number WB3211). The LPU and grounding kit contains a 0.6 meters (2 foot) length of this cable.

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**Install the ODU to top LPU drop cable**

**Fit glands to the ODU to top LPU drop cable**

Fit EMC strain relief cable glands (with black caps) to both ends of the 0.6 meters (2 foot) length of pre-terminated cable. These parts are supplied in the LPU and grounding kit.

1. Disassemble the gland and thread each part onto the cable (the rubber bung is split).
2. Assemble the spring clip and the rubber bung:
2 Fit the parts into the body and lightly screw on the gland nut using 24 mm (0.9 in) wrench/spanner (do not tighten it):

Connect the drop cable to the ODU (PSU port) and LPU

1 (a) Plug the RJ45 connector into the socket in the unit, ensuring that it snaps home. (b) Fit the gland body to the RJ45 port and tighten it to a torque of 5.5 Nm (4.1 lb ft):

2 (a) Fit the gland nut and tighten until the rubber seal closes on the cable. (b) Do not over-tighten the gland nut, as there is a risk of damage to its internal components:
Disconnect the drop cable from the LPU or ODU

Use this procedure if it is necessary to remove an EMC strain relief cable gland and RJ45 connector from the ODU (as illustrated) or LPU.

1 (a) Remove the gland nut. Wiggle the drop cable to release the tension of the gland body. When the tension in the gland body is released, a gap opens at the point shown. Unscrew the gland body.
(b) Use a small screwdriver to press the RJ45 locking tab, then remove the RJ45 connector.

Install the main drop cable

⚠️ **Warning**
The metal screen of the drop cable is very sharp and may cause personal injury.
- ALWAYS wear cut-resistant gloves (check the label to ensure they are cut resistant).
- ALWAYS wear protective eyewear.
- ALWAYS use a rotary blade tool to strip the cable (DO NOT use a bladed knife).

⚠️ **Warning**
Failure to obey the following precautions may result in injury or death:
- Use the proper hoisting grip for the cable being installed. If the wrong hoisting grip is used, slippage or insufficient gripping strength will result.
- Do not reuse hoisting grips. Used grips may have lost elasticity, stretched, or become weakened. Reusing a grip can cause the cable to slip, break, or fall.
- The minimum requirement is one hoisting grip for each 60 m (197 ft) of cable.

Cut to length and fit hoisting grips

1 Cut the main drop cable to length from the top LPU to the bottom LPU.
2 Slide one or more hoisting grips onto the top end of the drop cable.
3 Secure the hoisting grip to the cable using a special tool, as recommended by the manufacturer.
Terminate with RJ45 connectors and glands

**Caution**
Check that the crimp tool matches the RJ45 connector, otherwise the cable or connector may be damaged.

1. Thread the cable gland (with black cap) onto the main drop cable.
2. Strip the cable outer sheath and fit the RJ45 connector load bar.
3. Fit the RJ45 connector housing as shown. To ensure there is effective strain relief, locate the cable inner sheath under the connector housing tang. Do not tighten the gland nut:

![RJ45 connector diagram]

Hoist and fix the main drop cable

**Warning**
Failure to obey the following precautions may result in injury or death:
- Use the hoisting grip to hoist one cable only. Attempting to hoist more than one cable may cause the hoisting grip to break or the cables to fall.
- Do not use the hoisting grip for lowering cable unless the clamp is securely in place.
- Maintain tension on the hoisting grip during hoisting. Loss of tension can cause dangerous movement of the cable and result in injury or death to personnel.
- Do not release tension on the grip until after the grip handle has been fastened to the supporting structure.
- Do not apply any strain to the RJ45 connectors.

**Caution**
Do not lay the drop cable alongside a lightning air terminal.

1. Hoist the top end of the main drop cable up to the top LPU, following the hoist manufacturer’s instructions. When the cable is in position, fasten the grip handle to the supporting structure and remove the hoist line.
2 Connect the main drop cable to the top LPU by following the procedure Connect the drop cable to the ODU (PSU port) and LPU on page 16.

3 Run the main drop cable to the site of the bottom LPU.

4 Attach the main drop cable to the supporting structure using site approved methods.

**Ground the main drop cable**

At all required grounding points, connect the screen of the main drop cable to the metal of the supporting structure using the cable grounding kit (Cambium part number 01010419001).

**Install the bottom LPU to PSU drop cable**

**Install the bottom LPU**

Install the bottom LPU, ground it, and connect it to the main drop cable.

1 Select a mounting point for the bottom LPU within 0.6 meters (2 foot) of the building entry point. Mount the LPU vertically with cable glands facing downwards.

2 Connect the main drop cable to the bottom LPU by following the procedure Connect the drop cable to the ODU (PSU port) and LPU on page 16.

3 Fasten one ground cable to the bottom LPU using the M6 (small) lug. Tighten both nuts to a torque of 5 Nm (3.7 lb ft):

4 Select a building grounding point near the LPU bracket. Remove paint from the surface and apply anti-oxidant compound. Fasten the LPU ground cable using the M10 (large) lug.
Install the LPU to PSU drop cable

Use this procedure to terminate the bottom LPU to PSU drop cable with RJ45 connectors at both ends, and with a cable gland at the LPU end.

**Warning**
The metal screen of the drop cable is very sharp and may cause personal injury. ALWAYS wear cut-resistant gloves (check the label to ensure they are cut resistant). ALWAYS wear protective eyewear. ALWAYS use a rotary blade tool to strip the cable, not a bladed knife.

**Caution**
Check that the crimp tool matches the RJ45 connector, otherwise the cable or connector may be damaged.

1. Cut the drop cable to the length required from bottom LPU to PSU.
2. At the LPU end only:
   - Fit one cable gland and one RJ45 connector by following the procedure [Terminate with RJ45 connectors and glands](#) on page 18.
   - Connect this cable and gland to the bottom LPU by following the procedure [Connect the drop cable to the ODU (PSU port) and LPU](#) on page 16.
3. At the PSU end only: Do not fit a cable gland. Strip the cable outer sheath and fit the RJ45 connector load bar. Fit the RJ45 connector housing. To ensure there is effective strain relief, locate the cable inner sheath under the connector housing tang:

   ![Diagram of connector housing and inner sheath](image)
Test resistance in the drop cable

Connect the bottom end of the copper Cat5e drop cable to a suitable drop cable tester and test that the resistances between pins are within the correct limits, as specified in the table below. If any of the tests fail, examine the drop cable for wiring faults.

<table>
<thead>
<tr>
<th>Measure the resistance between...</th>
<th>Enter measured resistance</th>
<th>To pass test, resistance must be...</th>
<th>Circle “Pass” or “Fail”</th>
<th>Additional tests and notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pins 1 and 2</td>
<td>Ohms</td>
<td>&lt;20 Ohms (60 Ohms) (*1)</td>
<td>Pass</td>
<td>Resistances must be within 10% of each other (*2). Circle “Pass” or “Fail”: Pass</td>
</tr>
<tr>
<td>Pins 3 and 6</td>
<td>Ohms</td>
<td>&lt;20 Ohms (60 Ohms) (*1)</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>Pins 4 and 5</td>
<td>Ohms</td>
<td>&lt;20 Ohms (60 Ohms) (*1)</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>Pins 7 and 8</td>
<td>Ohms</td>
<td>&lt;20 Ohms (60 Ohms) (*1)</td>
<td>Pass</td>
<td>Fail</td>
</tr>
<tr>
<td>Pin 1 and screen (ODU ground)</td>
<td>K Ohms</td>
<td>&gt;100K Ohms</td>
<td>Pass</td>
<td>These limits apply regardless of cable length.</td>
</tr>
<tr>
<td>Pin 8 and screen (ODU ground)</td>
<td>K Ohms</td>
<td>&gt;100K Ohms</td>
<td>Pass</td>
<td>Fail</td>
</tr>
</tbody>
</table>

(*1) A resistance of 20 Ohms is the maximum allowed when the cable is carrying Ethernet. A resistance of 60 Ohms is the maximum allowed when the cable is carrying only power to the ODU (when Ethernet is carried by one of the other ODU interfaces).

(*2) Ensure that these resistances are within 10% of each other by multiplying the lowest resistance by 1.1 – if any of the other resistances are greater than this, the test has failed.
Installing the PSU

Install one of the following types of PSU (as specified in the installation plan):

- AC Power Injector (Cambium part number N000065L001C).
- AC+DC Enhanced Power Injector (Cambium part number C000065L002C).

**Caution**
As the PSU is not waterproof, locate it away from sources of moisture, either in the equipment building or in a ventilated moisture-proof enclosure. Do not locate the PSU in a position where it may exceed its temperature rating.

**Caution**
Do not plug any device other than a PTP 650, PTP 670 or PTP 700 ODU into the ODU port of the PSU. Other devices may be damaged due to the non-standard techniques employed to inject DC power into the Ethernet connection between the PSU and the ODU.

Do not plug any device other than a Cambium PTP 670 PSU into the PSU port of the ODU. Plugging any other device into the PSU port of the ODU may damage the ODU and device.

Installing the AC Power Injector

Follow this procedure to install the AC Power Injector (Cambium part number N000065L001C):

1. Form a drip loop on the PSU end of the LPU to PSU drop cable. The drip loop ensures that any moisture that runs down the cable cannot enter the PSU.

2. (a) Place the AC Power Injector on a horizontal surface. Plug the LPU to PSU drop cable into the PSU port labeled ODU. (b) When the system is ready for network connection, connect the network Cat5e cable to the LAN port of the PSU:
Installing the AC+DC Enhanced Power Injector

Follow this procedure to install the AC+DC Enhanced Power Injector (Cambium part number C000065L002C):

1. Mount the AC+DC Enhanced Power Injector by screwing it to a vertical or horizontal surface using the four screw holes (two holes circled):

2. Form a drip loop on the PSU end of the LPU to PSU drop cable. The drip loop ensures that any moisture that runs down the cable into the cabinet or enclosure cannot enter the PSU.

3. (a) Undo the retaining screw, hinge back the cover and plug the drop cable into the port. (b) Close the cover and secure with the screw. (c) When the system is ready for network connection, connect the network Cat5e cable to the LAN port of the PSU:

(a) and (b)
Cambium Networks provides professional grade fixed wireless broadband and microwave solutions for customers around the world. Our solutions are deployed in thousands of networks in over 153 countries, with our innovative technologies providing reliable, secure, cost-effective connectivity that's easy to deploy and proven to deliver outstanding performance.

Our award-winning Point to Point (PTP) radio solutions operate in licensed, unlicensed and defined use frequency bands including specific FIPS 140-2 solutions for the U.S. Federal market. Ruggedized for 99.999% availability, our PTP solutions have an impeccable track record for delivering reliable high-speed backhaul connectivity even in the most challenging non-line-of-sight RF environments.

Our flexible Point-to-Multipoint (PMP) solutions operate in the licensed, unlicensed and federal frequency bands, providing reliable, secure, cost effective access networks. With more than three million modules deployed in networks around the world, our PMP access network solutions prove themselves day-in and day-out in residential access, leased line replacement, video surveillance and smart grid infrastructure applications.

Cambium Networks solutions are proven, respected leaders in the wireless broadband industry. We design, deploy and deliver innovative data, voice and video connectivity solutions that enable and ensure the communications of life, empowering personal, commercial and community growth virtually everywhere in the world.

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