

# POINT-TO-POINT (PTP) LIGHTNING PROTECTION UNIT

LIGHTNING PROTECTION FOR PTP 250, 300, 500 AND 600 RADIOS



Cambium Point-to-Point (PTP) 250, 300, 500 and 600 Series Solutions include robust radios designed to withstand the toughest conditions. Because they are often perched on high towers, sometimes with antennas, they are located in situations that can attract lightning. The Cambium PTP Lightning Protection Unit (PTP-LPU) is a device that shields your PTP radios from the harmful effects of sudden surges in power induced by electro-magnetic activity (lightning). While you can purchase a Cambium All Risks Extended Warranty that covers lightning strikes, the warranty only covers the cost of replacing the radio. It is a good idea to start out with lightning protection at initial deployment to avoid the delays and costs associated with taking down damaged devices and installing replacement units.

## RUGGEDIZED DESIGN

The PTP Lightning Protection Unit offers two protection methods – line-to-line and line-to-ground – to ensure that a surge in power is stopped in its tracks. When installed correctly, using solid shielded CAT5e cable, the PTP-LPU will ground the surge almost instantaneously (typically within five nanoseconds). By grounding the power surges before they can harm the units, the Cambium PTP-LPU gives

your radios the best possible protection from the harmful effects of lightning. However, 100% protection is neither implied nor possible.

PTP-LPU units have a projected operational life of 10 years. The device's metal enclosure provides a tough body armor that protects your units against battering from winds up to 150 mph (242 kph), rain, ice and snow.

## KEY FEATURES

- Typical response time – 5 nanoseconds
- Line-to-line and line-to-ground protection
- Robust metal enclosure
- Connects via RJ-45 screened connector
- Operates in -40° to +140° F (-40° to +60°) temperatures
- Withstands up to 150 mph (242 kph) winds

## EASY MOUNTING, EASY INSTALLATION

Easily mounted on a wall or tower with a PTP radio, the PTP-LPU includes a minimum of components. Although each unit is housed in a metal enclosure, the PTP-LPU is small and lightweight, making it extremely easy to transport even up the highest towers. The connections are designed for simplicity, requiring no special knowledge or expertise.

Each PTP 600 radio requires two PTP-LPU devices – one installed on the tower or mast adjacent to the radio and one installed at the cable entrance point leading to the network. Each PTP 250, 300 or 500 radio requires only one PTP-LPU, because these radios have built-in lightning protection capability. So, only one external PTP Lightning Protection

Unit (PTP-LPU) is required near the base of the tower or wall at the cable-entrance point leading to the network. That unit protects the LAN network inside the building.

## LIGHTWEIGHT PRICE FOR FAST ROI

Best of all, the units are very cost effective, making your lightning-protection investment well worth it. Along with the mounting hardware, the PTP-LPU End Kit for PTP 600 systems includes two units, plus the necessary cables (excluding the drop cable and connection to your network equipment) and glands in a single kit. For PTP 250, 300 and 500 systems, the PTP-LPU End Kit includes one unit, plus the necessary cables and glands. In all cases, you will need two kits for each PTP link.



**PTP-LPU**

Feature	Description
Transfer rate	1000 Base T
Connectors	RJ 45
Protection mode	Line-to-line and line-to-ground
Response time	5 nanoseconds typical
Mounting	Pole mount 1-3" (25-75 mm) or wall mount
Metal enclosure	Projected 10-year operational life
Dimensions (including glands)	6.3" Length (16 cm), 4" (10 cm) Width, 3.5" (9 cm) Height
Weight	1.5 lbs (700 g)
Wind loading	150 mph (242 kph)
Operating temperature	-40° F (-40° C) to +140° F (+60° C)
Humidity	100% condensing
Tested to IEEE / ANSI C62.41 10/1000 long wave	120 amp peak, peak power 14,000 watts
Environmental protection	IP66 / NEMA-3R

For more information, refer to our [PTP Solutions](#).



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