



PTP-LPU (Lightning Protection Unit)

For Motorola Point-to-Point Bridges



Robust Lightning Protection

The Motorola wi4 Fixed Point-to-Point Lightning Protection Unit (PTP-LPU) is a device that is designed to protect a Motorola PTP radio from the harmful effects of power surges induced in the cables by nearby lightning strikes.*

The PTP-LPU is a high-speed, high-current solid state device that is enclosed in a rugged metal enclosure to withstand rain, snow, ice and winds up to 150 mph (242 kph). Although housed in a metal enclosure, the cost-effective unit is small and lightweight, making it easy to transport and install. The projected operational life of a PTP-LPU is 10 years, even when continually exposed to the elements.

Each PTP radio requires two Lightning Protection Units, one installed on the wall, tower or mast adjacent to the radio and one installed at the cable entry point of the building in which the network resides. While lightning damage is covered under the Motorola Link Guard Extended Warranty with All-Risk Coverage, the warranty covers only the hardware replacement costs. Therefore, it is recommended that each PTP radio be fitted with a PTP-LPU to protect the units from damage and to eliminate the costs and delays associated with taking down damaged radios and installing replacement units.

Prior to deploying a PTP-LPU, refer to the relevant installation data sheets that are provided with each PTP-LPU.

MOTOwi4™

The PTP Wireless Ethernet Bridges as well as the PTP Lightning Protection Unit are included in Motorola's MOTOwi4 portfolio of innovative wireless broadband solutions that create, complement and complete IP networks. Delivering IP coverage to virtually all spaces, the MOTOwi4 portfolio includes wi4 Fixed, wi4 Mesh, wi4 Indoor and wi4 WiMAX solutions for private and public networks.

Motorola PTP-LPU Part Numbers

WB2907 LPU End Kit – PTP 400/PTP 600
(2 Kits Required Per Link)

WB2978 LPU End Kit Spare

WB1811 LPU Glands – Package of 10 Glands

* The PTP-LPU is designed for use with all wi4 Fixed PTP radios, except the PTP 100 Series radios. When correctly installed, the Motorola PTP Lightning Protection Unit gives a PTP radio the best protection from the harmful effects of lightning. However, 100% protection is neither implied nor possible.

TECHNICAL SPECIFICATIONS

Motorola wi4 Fixed Point-to-Point Lightning Protection Unit – PTP-LPU

Parameter	Remarks
Transfer rate	1000 Base T
Connectors	RJ 45
Protection mode	Line-to-line and line-to-ground
Response time	5 nanoseconds
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	IP65 / NEMA-3R



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