

Auxiliary Units

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Lightning Protection Unit AUX-ODU-LPU-L

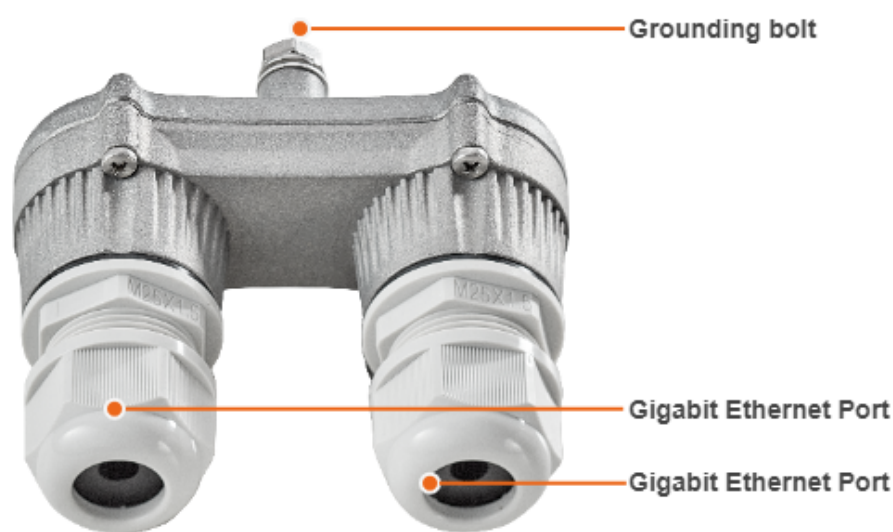


Figure - AUX-ODU-LPU-L

AUX-ODU-LPU-L is a bidirectional external outdoor lightning protection unit for Infinet Wireless systems designed to withstand the toughest conditions and protect the outdoor unit or the 3rd party networking equipment installed indoors from sudden power surges induced by lightning strikes. Despite the fact every Infinet wireless device has a built-in lightning protection. AUX-ODU-LPU-L, thanks to its superior GR-1089-grade protection, greatly reduces the risk of damage for the systems operating in harsh environments or difficult-to-reach locations. AUX-ODU-LPU-L is compatible with all Infinet Wireless devices.

 **NOTE**
The device is not supplied by default and must be ordered separately.

Parameter	Description
Size and Weight	• 45x92x55.5 mm, 0.13 kg
Connectors and Interfaces	• 2 x Ethernet ports • Ground clamp
Supported Ethernet Modes	• 10/100/1000 Mbps (Gigabit Ethernet pass-through)
Water and Dust Protection	• IP66 and IP67

Operating temperature range	• -55 °C ... +60 °C								
Ethernet pinout	Pin	1	2	3	4	5	6	7	8
	Data pair	A+	A-	B+	C-	C+	B-	D+	D-
Lightning Protection	In compliance with: • GR-1089 • IEC 61000-4-2 (ESD) 15kV (air), 8kV (contact) • IEC 61000-4-4 (EFT) 40A (tp = 5/50ns) • IEC 61000-4-5 (Lightning) L5, 95A (tp = 8/20us) • ETSI ETS 300 386								

Table - AUX-ODU-LPU-L Specification

Packing list



Figure - Packing list AUX-ODU-LPU-L

AUX-ODU-LPU-L is supplied with a worm clamp TORRO 40-60/9 C7 W4 DIN 3017. The clamp is made of stainless steel A4, width 9 mm, allows the installation on a mast with a diameter of 35 to 60 mm. In case of mast diameter more than 60 mm, a similar clamp (up to a 230 mm diameter) with a width of up to 12-13 mm can be used.

Lightning Protection Unit AUX-ODU-LPU-G

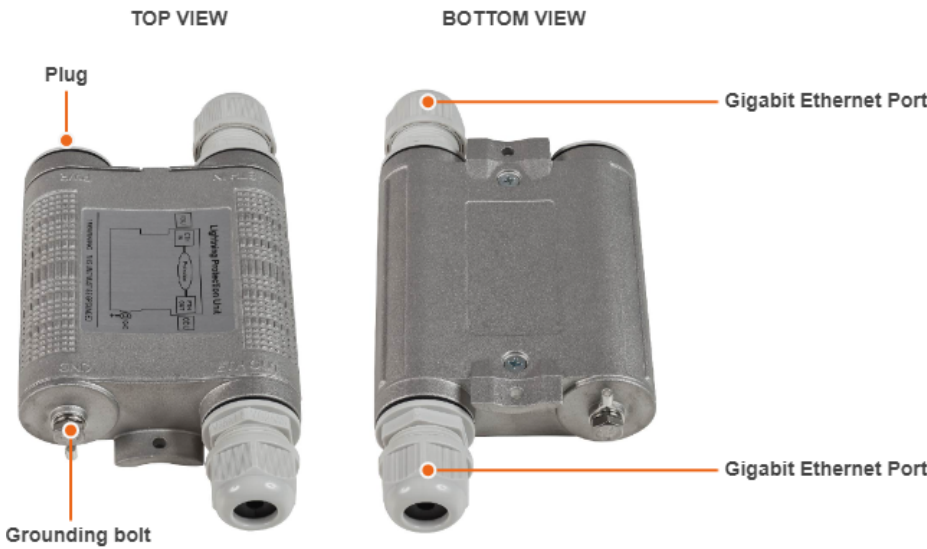


Figure - AUX-ODU-LPU-G

Optional indoor/outdoor Lightning Protection Unit for Infinet Wireless systems designed to withstand the toughest conditions and protect the outdoor or the indoor unit from sudden power surges induced by lightning strikes. It provides the same level of protection as AUX-ODU-INJ-G. AUX-ODU-LPU-G is compatible with all Infinet Wireless devices.

Despite the fact every Infinet Wireless unit has a built-in lightning protection, AUX-ODU-LPU-G, thanks to its superior GR-1089-grade protection, greatly reduces the risk of replacing damaged devices operating in harsh environments or difficult-to-reach locations.



NOTE

The device is not supplied by default and must be ordered separately.

Parameter	Description																		
Size and Weight	34x94x121 mm, 0.28 kg																		
Connectors and Interfaces	- ETH IN - Ethernet input - ETH OUT - Ethernet output (protected leg) - GND - Ground clamp																		
Supported Ethernet Modes	10/100/1000 Mbps (Gigabit Ethernet pass-through)																		
Water and Dust Protection	IP66 and IP67																		
Operating temperature range	-55 °C ... +60 °C																		
ETH IN and ETH OUT pin-out	<table><tr><th>Pin</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th></tr><tr><th>Data pair</th><td>A+</td><td>A-</td><td>B+</td><td>C-</td><td>C+</td><td>B-</td><td>D+</td><td>D-</td></tr></table>	Pin	1	2	3	4	5	6	7	8	Data pair	A+	A-	B+	C-	C+	B-	D+	D-
Pin	1	2	3	4	5	6	7	8											
Data pair	A+	A-	B+	C-	C+	B-	D+	D-											
Lightning Protection	In compliance with: - GR-1089 - IEC 61000-4-2 (ESD) 15kV (air), 8kV (contact) - IEC 61000-4-4 (EFT) 40A (tp = 5/50ns) - IEC 61000-4-5 (Lightning) L5, 95A (tp = 8/20us) - ETSI ETS 300 386																		

Table - AUX-ODU-LPU-G Specification

Packing list



Figure - Packing list AUX-ODU-LPU-G

AUX-ODU-LPU-G is supplied with a worm clamp TORRO 40-60/9 C7 W4 DIN 3017 - 2 pcs. The clamp is made of stainless steel A4, width 9 mm, allows the installation on a mast with a diameter of 35 to 60 mm. In case of mast diameter more than 60 mm, a similar clamps (up to a 230 mm diameter) with a width of up to 12-13 mm can be used.

ANT-SYNC antenna



Figure - ANT-SYNC

ANT-SYNC is an active GPS/GLONASS antenna designed to filter and amplify RF signals received from global navigation satellite systems (GNSS) and feed them to a GNSS receiver at InfiLINK XG, InfiLINK XG 1000 families models. GNSS receiver recovers timing and positioning data which is used to provide timing reference for TDD synchronization as well as to make device location information available for EMS and NMS systems via SNMP protocol.

As an active antenna, it protects the receiver from interference coming from co-located 3G/LTE BTSs, which would make GNSS signals irrecoverable otherwise. It requires DC power for normal operation, which is fed via the RF port, so it can only be used with compatible GNSS receivers such as those built into InfiLINK XG, InfiLINK XG 1000 families models.

TDD synchronization allows multiple co-located units to operate co-channel or use adjacent channels thus achieving frequency re-use and eliminate self interference. Because of GNSS-based timing reference, both intra- and inter-site synchronization can be supported.

Parameter	Description
Antenna type	• GLONASS/GPS, active, external
Frequency bands	• GLONASS - 1602 MGz (L1) • GPS - 1575 MGz (L1)
Input DC range	• +5 VDC
RF connector	• N-type (Female)
Ingress protection	• IP66, IP67
Size and weight	• 180x170x72 mm, 0.36 kg
Operating temperature range	• -40°C...+60°C
Relative humidity	• Up to 100%

Table - Technical specifications of ANT-SYNC

Installation

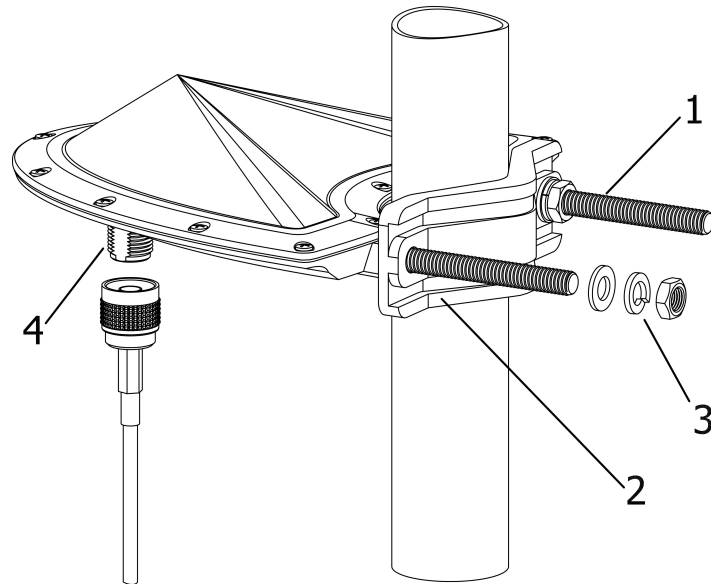
Installation must be performed by a professional installer only.

ANT-SYNC can be installed on a pole, using components kit from the delivery package. The recommended guidelines are given below:

- Screw the threaded studs (1) to the unit case.
- Tighten the device and the bracer (2) on the pole and fix them by the threaded studs (1) using the nuts and washers (3) as shown at the picture.

Typical pole diameter is 30 to 85 mm.

The N-type connector (4) is used to connect to the outdoor unit using the cable assembly from the delivery package.



1 – Threaded studs, 2 – Bracer, 3 – Nut and washer, 4 – N-type connector
Figure - ANT-SYNC Mounting