

Quick Start Guide

60GHz Access Point
MLTG-CN



Package Contents



1.

60GHz Access Point MLTG-CN
2.

1 x 24 W PoE injector
3.

1 x Power cord
4.

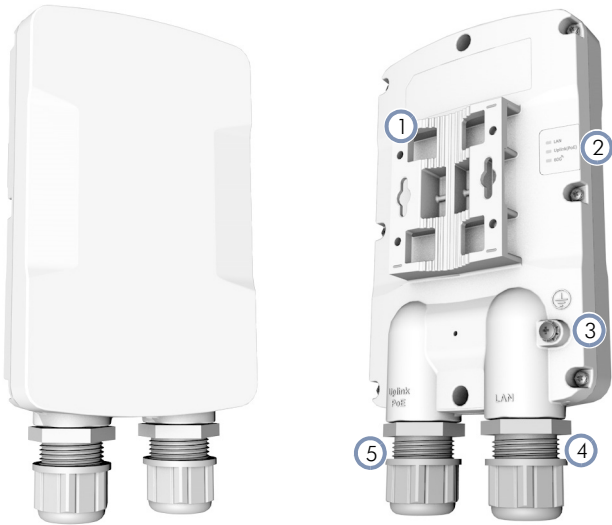
2 x Steel-band clamps for pole mount (3 inch diameter max.)
5.

2 x Screws with nylon expansion plugs for wall mount
6.

2 x Cable glands
7.

Documentation QR-code card

Overview



1. Integrated pole and wall mounting bracket.
2. System LED Indicators:
 - LAN: On (LAN port link), Blinking (activity).
 - Uplink(PoE): On (Uplink PoE port link), Blinking (activity). Slow blink during system boot up.
 - 60G: On (60GHz wireless link), Blinking (activity).
3. Grounding Screw: For ground wire connection.
4. LAN Port: Connects to LAN devices.
5. Uplink PoE Port: Connects to PoE injector and LAN devices.



Interface	MAC Address
Uplink PoE	Ethernet MAC (Printed on the device's label)
LAN	Ethernet MAC + 1
60 GHz	Ethernet MAC + 2

Installation



Warning: For a safe and reliable installation, use only the accessories and screws provided with the device. Use of other accessories and screws could result in damage to the unit. Any damages incurred by using unapproved accessories are not covered by the warranty.

Avertissement: Pour une installation sûre et fiable, utilisez uniquement les accessoires et les vis fournies avec l'appareil. L'utilisation d'autres accessoires et vis pourrait endommager l'appareil. Les dommages causés par l'utilisation d'accessoires non approuvés ne sont pas couverts par la garantie.

1 Ground the MLTG-CN



Ground the MLTG-CN by connecting a ground wire to the grounding point on the MLTG-CN and to nearby good earth.

2 Make Network Connections



RJ-45 Ports

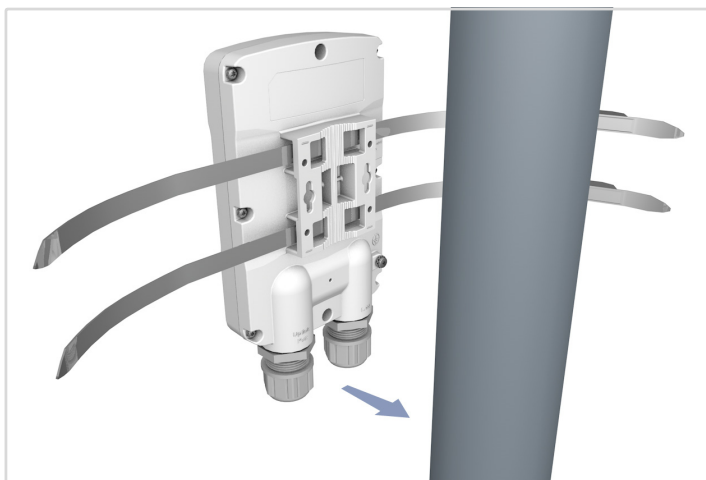
1. Connect outdoor-rated Category 5e or better cable to the 1000BASE-T RJ-45 Uplink PoE port. Be sure to use the included weatherproof RJ-45 port cover.
2. (Optional) Connect a local LAN switch or computer to the LAN 1000BASE-T RJ-45 port. Be sure to use the included weatherproof RJ-45 port cover.



Note: The Uplink PoE port connection provides PoE power to the unit.

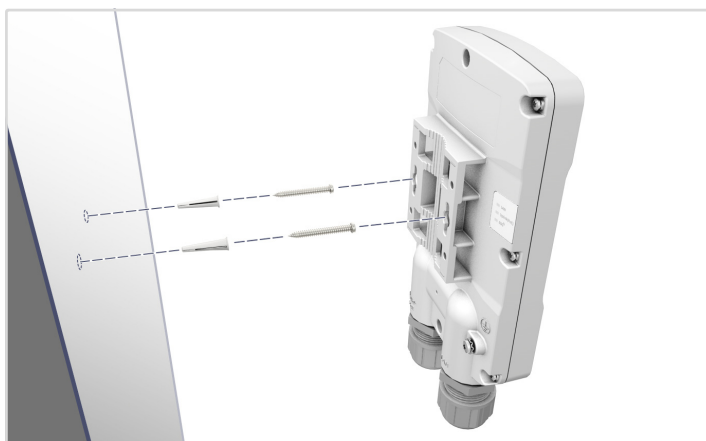
3 Mount the MLTG-CN

a. Mount on a Pole



1. Feed the steel-band clamps through the pole-mount bracket points on the back of the MLTG-CN and then lightly fasten them around the pole.
2. Align the MLTG-CN antenna with a nearby Distribution Node before tightening the clamps securely.

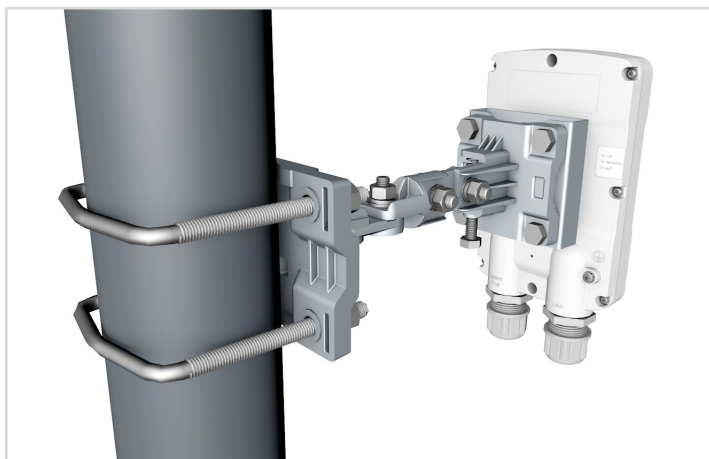
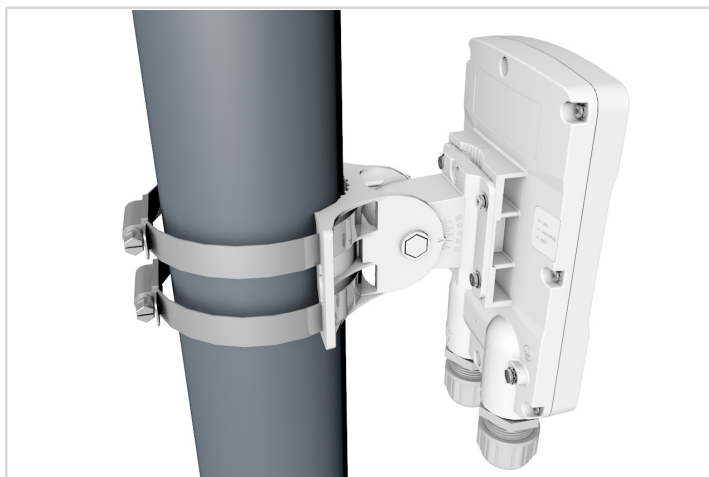
b. Mount on a Wall



1. Drill two holes in the wall for the included expansion plugs. Insert the expansion plugs and the two screws in the holes.
2. Align the MLTG-CN mounting bracket with the screws and then slide the device down until it snaps into its secured position.

c. Use Precision Brackets (Optional)

Two optional precision brackets (ordered separately) are designed for wall and pole mounting and provide additional degrees of movement for antenna alignment.



4 Connect Power



Connect the other end of the outdoor-rated Ethernet cable from the Uplink (PoE) port to the 802.3at-compliant power injector.

5 Verify Power is On



Check the LEDs

The Uplink (PoE) LED should blink slowly during boot-up and be on or blinking when operating normally.

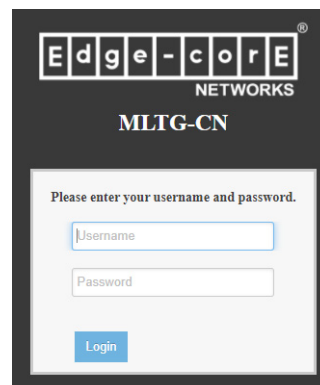
6 Access the Web User Interface

a. Using the LAN Port

1. Connect a PC directly to the MLTG-CN's LAN port.
2. Set the PC IP address to be on the same subnet as the MLTG-CN LAN port default IP address. The PC address must start 192.168.2.x with subnet mask 255.255.255.0).
3. Enter the MLTG-CN's default IP address of 192.168.2.1 into the web browser address bar.
4. Log in to the web interface using default settings:
Username = admin
Password = admin

b. Using the Management Port (Uplink PoE)

1. Connect a PC to the data port of the injector powering the MLTG-CN.
2. The MLTG-CN is configured as a DHCP Client and will receive its IP dynamically. Check the DHCP Server on the PC for the assigned address. In case the DHCP server is unavailable, the MLTG-CN uses 192.168.1.20 and 255.255.255.0 as the fallback IP address and subnet mask, respectively.
3. Enter the MLTG-CN's IP address into the web browser address bar.
4. Log in to the web interface using default settings:
Username = admin
Password = admin



Safety and Regulatory Information

FCC Class B

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device is not to be operated on aircraft except for the conditions listed on FCC CFR 15.255 (b).

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 22 cm between the radiator and your body.

IC Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs / récepteurs exempts de licence qui sont conformes au (x) RSS (s) exemptés de licence d'Innovation, Sciences et Développement économique Canada. L'opération est soumise aux deux conditions suivantes: (1) Cet appareil ne doit pas provoquer d'interférences. (2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 22 cm between the radiator and your body.

This device is not to be operated on aircraft except for the conditions listed on ISED RSS-210 Annex J.1.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit

être installé et utilisé avec un minimum de 22 cm de distance entre la source de rayonnement et votre corps.

CE Statement

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

All operational modes:

60 GHz: 802.11ad, 802.11ay

The frequency and maximum transmitted power limit in EU are listed as below:

57-66 GHz: 40 dBm



AT	BE	BG	CH	CY	CZ
DE	DK	EE	EL	ES	FI
FR	HR	HU	IE	IS	IT
LI	LT	LU	LV	MT	NL
NO	PL	PT	RO	SE	SI
SK	TR	UK			

The abbreviations of the countries, as prescribed in above table, where any restrictions on putting into service or any requirements for authorization of use exist.



CE Mark Declaration of Conformance for EMI and Safety (EEC)

This information technology equipment is in compliance with the Directive 2014/53/EU and Directive 2014/35/EU.

The Declaration of Conformity (DoC) can be obtained from www.edge-core.com -> support -> download.

Japan VCCI Statement

この装置は、クラスB機器です。この装置は、住宅環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

VCCI — B

Warnings and Cautionary Messages



Warning: This product does not contain any serviceable user parts.

Warning: Installation and removal of the unit must be carried out by qualified personnel only.

Warning: When connecting this device to a power outlet, connect the field ground lead on the tri-pole power plug to a valid earth ground line to prevent electrical hazards.



Caution: Wear an anti-static wrist strap or take other suitable measures to prevent electrostatic discharge when handling this equipment.

Caution: Do not plug a phone jack connector in the RJ-45 port. This may damage this device.

Caution: Use only twisted-pair cables with RJ-45 connectors that conform to FCC standards.

Hardware Specifications

AP Chassis

Size (WxDxH)	177.3 x 111.6 x 43 mm (6.98 x 4.39 x 1.69 in)
Weight	518 g (1.14 lb)
Temperature	Operating: -20° C to 55° C (-4° F to 131° F) Storage: -20° C to 70° C (-4° F to 158° F)
Humidity	Operating: 5% to 95% (non-condensing)

Network Interfaces

Ports	Uplink PoE RJ-45 Port: 1000BASE-T, PoE PD LAN RJ-45 Port: 1000BASE-T
60 GHz	802.11ad/ay

Power Supply

PoE Input Power	48 VDC (non-standard)
Power Consumption	24 Watts max.

Regulatory Compliances

Radio	EN 302 567 V2.1.1 EN 62311 (MPE) 47 CFR FCC Part 15.255 RSS-210 RSS-102 Issue 5 (MPE) MIC Article 2 Paragraph 1 Item 19—4-2
Emissions	EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Part 15 subpart B Class B (ANSI C63.4-2014) ICES-003 VCCI-CISPR 32
Safety	EN 62368-1: 2014+ A11: 2017 IEC 60950-1: 2005, AMD1: 2009, AMD2: 2013 IEC 60950-22: 2016 IEC 60529-1: 1989+ AMD1: 1999+ AMD2: 2013CSV (IP55)

