



HARDWARE INSTALLATION GUIDE

Enterprise Wi-Fi 6 Access Point
System Release 6.5



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Chapter 1: About This User Guide

This chapter describes the following topics:

- [Overview of Cambium Network products](#)
- [Intended audience](#)
- [Purpose](#)
- [Related documents](#)
- [New hardware platforms](#)
- [Existing hardware platforms](#)
- [Access Point \(AP\) management options](#)
- [Reporting problems, security advice and safety and regulatory information](#)
- [Human exposure to radio frequency energy](#)
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- [Specific expertise and training required for professional installers](#)
- [Avoidance of weather radars](#)
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- [Ethernet cabling types](#)
- [Pole or tower mount guidelines](#)
- [Wall mount guidelines](#)
- [Training](#)
- [Power density exposure limit](#)

Overview of Cambium Networks products

This User Guide describes various features supported by Cambium Network's Access Point (AP). It also provides detailed instructions for setting up and configuring the AP.

Intended audience

The guide is intended to assist system designers, system installers, and system administrators.

Purpose

This guide intends to instruct and assist personnel in the operation, installation and maintenance of the Cambium's equipment and ancillary devices. It is recommended that all personnel engaged in such activities must be trained properly.

Cambium Networks disclaims all liability whatsoever, implied or expressed, for any risk of damage, loss or reduction in system performance arising directly or indirectly out of the failure of the customer, or anyone acting on the customer's behalf, to abide by the instructions, system parameters, or recommendations made in this document.

Related documents

Table 1 provides support information for the AP (Enterprise Wi-Fi 6 products).

Table 1: Related documents

Document Type	Link for Reference
Enterprise Wi-Fi 6 product details	https://www.cambiumnetworks.com/products/wifi/
Enterprise Wi-Fi 6 AP User Guide (This document)	https://support.cambiumnetworks.com/files
Enterprise Wi-Fi 6 AP Release Notes	https://support.cambiumnetworks.com/files
Software Resources	https://support.cambiumnetworks.com/files
Community	http://community.cambiumnetworks.com/
Support	https://www.cambiumnetworks.com/support/contact-support/
Warranty	https://www.cambiumnetworks.com/support/warranty/
Feedback	For feedback, e-mail to support@cambiumnetworks.com

New hardware platforms

New hardware platforms introduced in Enterprise Wi-Fi 6 Access Points:

Table 2: New hardware platforms

Hardware Platform	Description	Supported Software Version
XV2-21X	2x2:2, 2x2:2 802.11a/b/g/n/ac-wave 2/ax Dual-Radio Indoor Wi-Fi 6 Access Point	System Release 6.5 and above
XV2-23T	2x2:2, 2x2:2 802.11a/b/g/n/ac-wave 2/ax Dual-Radio Outdoor Wi-Fi 6 Access Point	System Release 6.5 and above
XV2-22H	2x2:2, 2x2:2 802.11a/b/g/n/ac-wave 2/ax Dual-Radio Indoor Wi-Fi 6 Wall-Plate Access Point	System Release 6.5 and above

Existing hardware platforms

Table 3 lists the existing hardware platforms in Enterprise Wi-Fi 6 Access Points:.

Table 3: List of existing hardware platforms

Hardware Platform	Description	Supported Software Version
XE3-4	4x4:4; 2x2:2; 2x2:2 802.11a/b/g/n/ac wave 2/ax Tri-Radio Indoor Wi-Fi 6e Access Point	System Release 6.4 and above
XV3-8	8x8:8, 4x4:4 802.11a/b/g/n/ac wave 2/ax Tri-Radio indoor Access Point	System Release 6.0 and above

Hardware Platform	Description	Supported Software Version
XE5-8	XE5-8 Wi-Fi 6E 8x8 Access Point Indoor Tri-band AP with Multi Radio SDR	System Release 6.4.1 and above
XV2-2	2x2:2, 2x2:2 802.11a/b/g/n/ac wave 2/ax Dual-Radio indoor Access Point	System Release 6.1 and above
XV2-2T	2x2:2, 2x2:2 802.11a/b/g/n/ac wave 2/ax Dual-Radio Outdoor Access Point, Omni, PoE out	System Release 6.3.5.1 and above
XV2-2T1	Outdoor Wi-Fi 6 Access point, 2x2 Sector antenna Dual band 802.11ax 2x2, BLE, 2.5GbE	System Release 6.4.1 and above

Access Point (AP) management options

Table 4: AP management options

Management Option	Description
Standalone	AP can be managed directly from its GUI by selecting the Configure tab on the menu, and setting up a wireless LAN.
On-Premises	AP can be onboarded to the cnMaestro network management system.
Cloud	AP can be onboarded to either cnMaestro Cloud or XMS-Cloud at https://cloud.cambiumnetworks.com or https://login.xirrus.com respectively.
Mobile Application	AP can be managed by using the Swift application. To download the Swift application from App Store, scan the QR code and follow instructions.



Note

For cloud and mobile application management, please ensure the AP has connectivity to the internet. Connectivity can be verified using tools such as ping from the Troubleshooting tab of the AP UI. Connection status can be monitored from the AP dashboard.

XMS-Cloud

- Copy the Entitlement ID (EID) received via email, then go to support.cambiumnetworks.com > Licensing > Activate Entitlements.
 - New customers: Create an account and login using the credentials that is sent by email.
 - Existing customers: Enter EID to activate licenses for new APs.
- Open XMS-Cloud UI and add AP serial numbers: go to login.xirrus.com > Access Point tab.
- Connect AP to the internet. It appears in the XMS-Cloud console in a few minutes.



Note

XV2-21X and XV2-23T platforms are not supported by XMS-Cloud.

Swift mobile application

1. Download the Cambium Networks Swift application from the Google Play Store or Apple App Store.
2. Open Swift app and follow the onscreen instructions.

cnMaestro Essentials and cnMaestro X

1. Go to cloud.cambiumnetworks.com and register as a new user or sign-in with the existing credentials.
2. Create a new cnMaestro account or select an existing account.
3. To add AP serial numbers: Go to cnMaestro Home > Onboard Devices > Claim Device.
4. Connect the AP to the internet. It appears in the cnMaestro Devices page in a few minutes. Approve the device to finish onboarding.

cnMaestro On-Premises

Consult user documentation to redirect the AP to an on-premises cnMaestro management server.

For support, go to support.cambiumnetworks.com.



Note

Enterprise Wi-Fi 6 AP has a QR code that helps the customer to get to the quick start instructions.

Reporting problems

If any problems are encountered when installing or operating this equipment, follow this procedure to investigate and report:

1. Search this document and the software release notes of supported releases.
2. Visit the Support website: <http://www.cambiumnetworks.com/support>
3. Ask for assistance from the Cambium product supplier.
4. Gather information from affected units, such as any available diagnostic downloads.
5. Escalate the problem by emailing or telephoning support:
<https://www.cambiumnetworks.com/support/contact-support/>

Security advice

Cambium Network's systems and equipment provide security parameters that can be configured by the operator based on their particular operating environment. Cambium recommends setting and using these parameters following industry recognized security practices. Security aspects to be considered are protecting the confidentiality, integrity, and availability of information and assets. Assets include the ability to communicate, information about the nature of the communications, and information about the parties involved.

In certain instances, Cambium makes specific recommendations regarding security practices, however the implementation of these recommendations and final responsibility for the security of the system lies with the operator of the system.

Cambium Network's Enterprise AP equipment is shipped with default web management interface login credentials. It is highly recommended that the following default username and password should be modified prior to system installation.

- Username: admin
- Password: admin

Safety and regulatory information

This section describes important safety and regulatory guidelines that must be observed by personnel installing or operating Enterprise Access Point equipment.

Important safety information



Warning

To prevent loss of life or physical injury, observe the safety guidelines in this section.

Power lines

Exercise extreme care when working near power lines.

Working at heights

Exercise extreme care when working at heights.

Grounding and protective earth

Cambium Networks Enterprise Access Point (AP) devices must be properly grounded to protect against lightning. It is the responsibility of the user to install the equipment in accordance with national regulations. In the USA, follow Section 810 of the National Electric Code, ANSI/NFPA No.70-1984 (USA). 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 be contracted to a professional installer.

Powering down before servicing

Always power down and unplug the equipment before servicing.

Primary disconnect device

The Enterprise AP power supply is the primary disconnect device.

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 AP device before undertaking maintenance activities in front of the antenna.

Important regulatory information

The Enterprise Wi-Fi 6 AP product is certified as an unlicensed device in frequency bands where it is not allowed to cause interference to licensed services (called primary users of the bands).

Radar avoidance

In countries where radar systems are the primary band users, the regulators have mandated special requirements to protect these systems from interference caused by unlicensed devices. Unlicensed devices must detect and avoid co-channel operation with radar systems.

The Enterprise Wi-Fi 6 APs detect and avoid functionality for countries and frequency bands requiring protection for radar systems. The Enterprise Wi-Fi 6 APs is qualified for ETSI/FCC DFS certification (see Note) for radar detection and avoidance as per the law.



Note

Country-specific limits apply, some bands require Dynamic Frequency Selection (DFS). DFS bands operation subject to regulatory approval. Check Software release notes for details.

Installers and users must meet all local regulatory requirements for radar detection. To meet these requirements, users must set the correct country code during commissioning of the Enterprise Wi-Fi 6 APs equipment. If this is not done, installers and users may be liable to civil and criminal penalties.

Contact the Cambium helpdesk if more guidance is required.

Human exposure to radio frequency energy

Relevant standards (USA and EC) applicable when working with RF equipment are:

- ANSI IEEE C95.1-1991, IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
- Council recommendation of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz) (1999/519/EC) and respective national regulations.
- Directive 2013/35/EU of the European Parliament and of the Council of 26 June 2013 on the minimum health and safety requirements regarding the exposure of workers to the risks arising from physical agents (electromagnetic fields) (20th individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC) and repealing Directive 2004/40/EC.
- US FCC limits for the general population. See the FCC website at <https://www.fcc.gov/>, and the policies, guidelines, and requirements in Part 1 of Title 47 of the Code of Federal Regulations, as well as the guidelines and suggestions for evaluating compliance in FCC OET Bulletin 65.
- Health Canada limits for the general population. See the Health Canada website at http://www.hc-sc.gc.ca/ewh-semt/pubs/radiation/radio_guide-lignes_direct/index-eng.php and Safety Code 6.
- BS EN 62232:2017 : Determination of RF field strength, power density and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure (IEC 62232:2017).
- BS EN 50385:2017 Product standard to demonstrate the compliance of base station equipment with radiofrequency electromagnetic field exposure limits (110 MHz - 100 GHz), when placed on the market.

- ICNIRP (International Commission on Non-Ionizing Radiation Protection) guidelines for the general public. See the ICNIRP website at <http://www.icnirp.de/> and Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields.

USA and Canada specific information

Federal Communication Commission interference statement

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.



Attention

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.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device and its antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

This device is restricted for indoor use.

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.

Operation in the USA

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.

For product available in the USA market, only channels 1 to 11 for the 2.4 GHz band can be operated. Selection of other channels is not possible. This device is restricted to indoor use.

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 of 41 cm (16.14 inches) between the radiator and your body. 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 device.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet. Operation of transmitters in the 5.925 – 7.125 GHz band is prohibited for control of or Communications with unmanned aircraft systems.

Operation in Canada

ISED statement

This device complies with 'Innovation, Science and Economic Development (ISED) Canada' license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

For product available in the Canada market, only channels 1 to 11 can be operated. Selection of other channels is not possible. Pour les produits disponibles aux Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

Operation in the band 5150–5250 MHz is only permitted for indoor use, to reduce the potential for harmful interference to cochannel mobile satellite systems.

les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

For indoor use only. Pour une utilisation en intérieur uniquement.

ISED 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 25 cm between the radiator and your body.

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 25 cm de distance entre la source de rayonnement et votre corps.

Specific expertise and training required for professional installers

To ensure that the Enterprise Wi-Fi 6 AP is installed and configured in compliance with the requirements of Industry Canada and the FCC, installers must have the radio engineering skills and training described in this section. This is particularly important when installing and configuring an Enterprise Wi-Fi 6 AP system for operation in the 5 GHz band (5150 – 5250 MHz – FCC only, 5250 – 5350 MHz, 5470 – 5725 MHz, 5725 – 5850 MHz and 5925 – 6425 MHz).

Avoidance of weather radars

The installer must be familiar with the requirements in FCC KDB 443999. Essentially, the installer must be able to:

- Access the FCC database of weather radar location and channel frequencies.
- Use this information to correctly configure the product (using the UI) to avoid operation on channels that must be avoided according to the guidelines that are contained in the KDB and explained in detail in this user guide.
- In ETSI regions, the band 5600 MHz to 5650 MHz is reserved for the use of weather radars.

Ethernet networking skill

The installer must have the ability to configure IP addressing on a PC and to set up and control products using a web browser interface.

Ethernet cabling types

Following are the recommended Ethernet cabling types for various APs which has Multi-gigabit capable Ethernet ports:

- XV3-8 and XE5-8 (5Gbps)
- XV2-2, XE3-4, and XV2-2T (2.5Gbps)

For 2.5Gbps, Cambium Networks recommends CAT6 cable or better to cover the 100m maximum cable length runs. For shorter runs under about 30m, CAT5E cable is recommended. For high radio-frequency electric fields environments, shielded CAT5E or CAT6 type cabling is recommended.

For 5Gbps, Cambium Networks recommends CAT6 for cable runs under about 50m and CAT6a for lengths over 50m up to the maximum of 100m. Shielding cables should be used and the shielded CAT6\CAT6a needs to be continuous from the AP to its Ethernet switch.

Pole or tower mount guidelines

If you need to install AP to a metal tower or pole, then in addition to the general protection requirements, follow the below requirements:

- Ensure that the position of the equipment is lower than the top of the tower or its lightning air terminal.
- Ensure that the metal tower or pole is correctly grounded.
- Install a grounding kit at the first point of contact (top), between the drop cable and the tower.
- Install a grounding kit at the bottom of the tower, near the vertical to horizontal transition point.

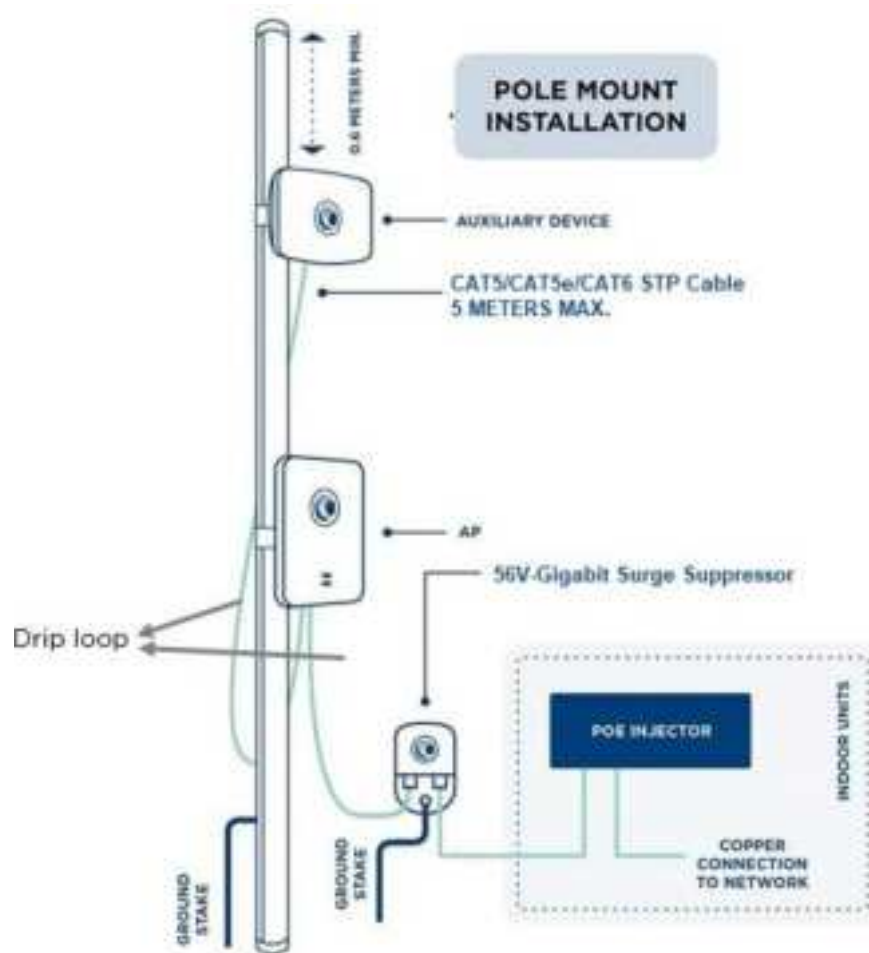


Note

If grounding kit is installed, ensure the grounding kit is bonded to the tower or Tower Ground Bus Bar (TGB).

Connection examples of pole or tower installations are shown in below figure.

Figure 1: Grounding and lightning protection on pole or tower



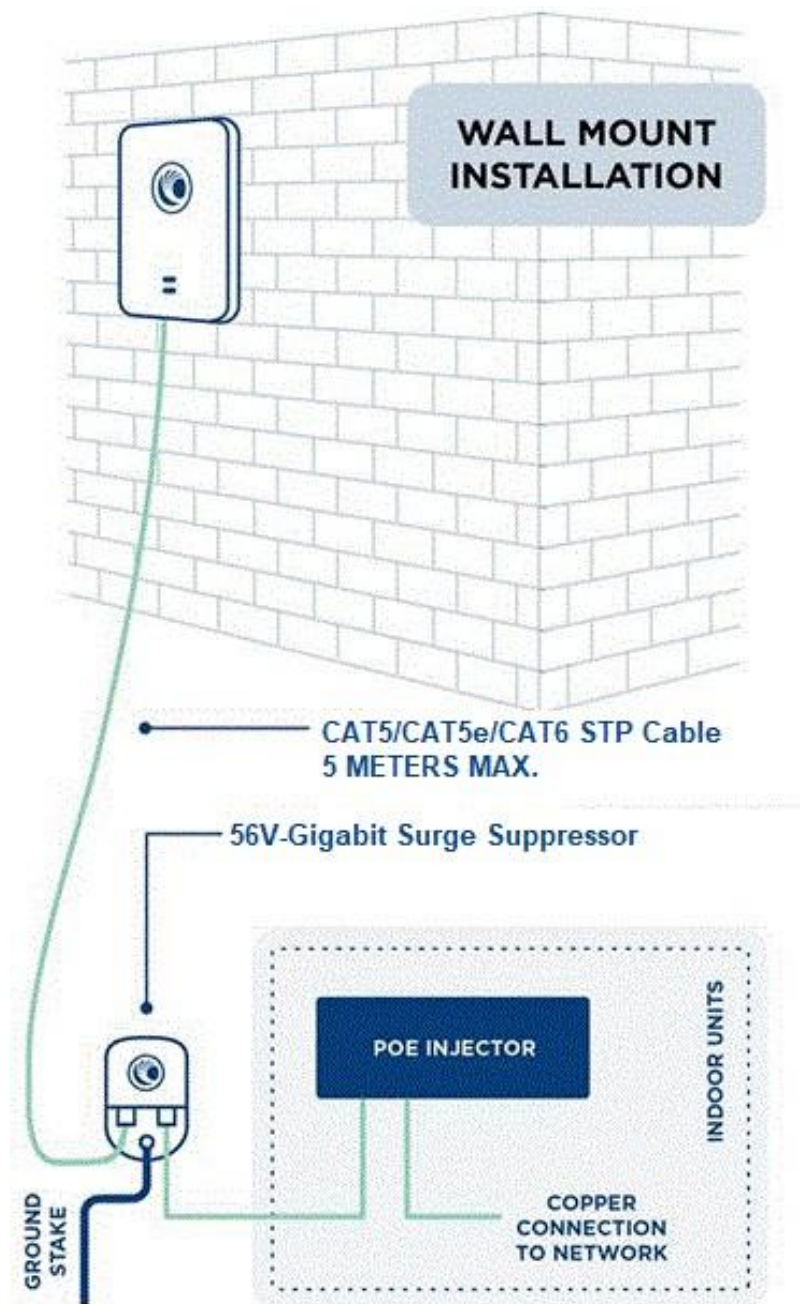
Wall mount guidelines

If you need to install AP on the wall of a building, then in addition to the general protection requirements, follow the below requirements also:

- Ensure that the position of the equipment is lower than the top of the building or its lightning air terminal.
- Ensure that the building is correctly grounded.

Connection examples of wall installations are shown in below figure.

Figure 2: Grounding and lightning protection on wall



Note

There should be a drip loop immediately at the Ethernet port entrance going to the AP.

Training

The installer needs to have basic competence in radio and IP network installation. The specific requirements applicable to the Cambium Networks Enterprise Wi-Fi 6 AP must be gained by reading this User Guide and by performing sample setups at base workshop before live installments.

Power density exposure limit

This section includes the following topics:

- Calculation of power density and distance
- Calculated distances and power compliance margins

Install the radios for the platform family of wireless solutions so as to provide and maintain the minimum separation distances from all persons.

The applicable FCC power density exposure limit for RF energy in the 2.4 and 5 GHz frequency bands is 1 mW/cm².

The applicable ISED power density exposure limit for RF energy in unlicensed bands is $0.02619 * (f^{0.6834})$, where f is the lowest frequency of the supported band. For licensed bands, the power density exposure limit is $0.6455 * (f^{0.5})$, where f is the lowest frequency of the supported band.

Calculation of power density and distance

The following calculation is based on the ANSI IEEE C95.1-1991 method, as that it provides a worst-case analysis. Details of the assessment to EN50383:2002 can be provided, if required.

Peak power density in the far field of a radio frequency point source is calculated as follows:

$$S = \frac{P \cdot G}{4\pi d^2}$$

Where:

- P – Maximum average transmit power capability of the radio, in W
- G – total Tx gain as a factor, converted from dB
- S – power density (W/m²)
- d – Distance from point source, in cm (Centimeters)

Table 5: Antenna details

AP	Antenna	Gain (for 2.4 GHz in dBi)	Gain (for 5 GHz in dBi)	Gain (for 6 GHz in dBi)
XE5-8	Omnidirectional	5	5	4
XV3-8	Omnidirectional	5.1	6.7	N/A
XV2-2	Omnidirectional	5.4	6.3	N/A
XV2-2T	Omnidirectional	5.3	9.0	N/A

AP	Antenna	Gain (for 2.4 GHz in dBi)	Gain (for 5 GHz in dBi)	Gain (for 6 GHz in dBi)
XV2-2T1	Sector	11.9	14	N/A
XE3-4	Omnidirectional	4.85	5.6	6.3
XV2-21X	Omnidirectional	5.05	7.75	N/A
XV2-23T	Omnidirectional	7.34	11.43	N/A
XV2-22H	Omnidirectional	4.47	5.56	N/A

For details on minimum safe distance value, please refer About This User Guide.

Calculated distances and power compliance margins

About This User Guide displays power density and minimum safe separation distance from point source for each frequency band and antenna combination for the USA and Canada. These are conservative distances that include compliance margins.

Cambium Networks Enterprise Wi-Fi 6 AP adheres to all applicable EIRP limits for transmit power when operating in MIMO mode. Separation distances and compliance margins include compensation for both transmitters.

$$d = \sqrt{\frac{P.G}{4\pi.S}}$$

Explanation of terms used in the following tables:

- P – maximum average transmits power of the radio (Watt)
- G – total transmit gain as a factor, converted from dB
- S – power density (W/m²)
- d – minimum safe separation distance from point source (Centimeters)

Table 6: Power density and distance

Product	Regulatory Domain	Power density S (mW/cm ²)	Distance d (cm)
XE5-8	FCC	0.055/0.056/0.008 (2.4/5/6 GHz)	75
	IC	0.203/0.207/0.038 (2.4/5/6 GHz)	39
	CE	0.1158/3.348/0.23379 (2.4/5/6 GHz)	26

Product	Regulatory Domain	Power density S (mW/cm ²)	Distance d (cm)
XV3-8	FCC	0.21/0.33	31
	IC	0.22/0.35	30
	CE	0.197/7.47 (2.4G/5G W/m ²)	20
XV2-2	FCC	0.45/0.505	25
	IC	0.31/0.35	30
	CE	0.1966/7.598 (2.4G/5G W/m ²)	20
XV2-2T	FCC	0.36/0.597	23
	IC	0.26/0.433	27
	CE	0.1957/1.98 (2.4G/5G W/m ²)	20
XV2-2T1	FCC	0.466/0.461 (2.4G/5G)	26
	IC	0.328/0.324 (2.4G/5G)	31
	CE	0.193/1.97 (2.4G/5G W/m ²)	20
XE3-4	FCC	0.24/0.35/0.02196 (2.4G/5G/6G)	30
	IC	0.20/0.29 (2.4G/5G)	33
	CE	0.1247/4.548/0.253 (2.4G/5G/6G W/m ²)	25
XV2-21X	FCC	0.12152/0.12152	51
	IC	0.32890/0.32890	31
	CE	0.19043/7.88370	20
XV2-23T	FCC	0.12152/0.12152	51
	IC	0.32890/0.3289	31
	CE	0.89149/7.68653	20
XV2-22H	FCC	0.12252/0.10647	41
	IC	0.32953/0.28635	25
	CE	0.19803/3.27137	20

Chapter 2: Packaging and Installation of Access Point

This chapter describes the following topics:

- Unpacking the Access Point
- Package contents
- Mounting the device

Unpacking the Access Point

After you purchase a Cambium Networks Enterprise Wi-Fi 6 AP, unpack the AP and check the package contents.

1. Open the AP package, and then carefully remove the contents.
2. Verify that all items listed in Package contents below are included in the package. Check each item for damage. If any item is damaged or missing, notify your authorized Cambium Networks Enterprise Wi-Fi 6 AP sales representative.

Package contents

A complete Cambium Networks Enterprise Wi-Fi 6 AP package contains all the items listed below:

1. Cambium Networks Enterprise Wi-Fi 6 AP
2. Quick Start Guide (QSG)
 - Specifications
 - Safety Notice
 - Compliance
3. Hardware Accessories (Based on SKU/Model)
 - Mounting Kits

Mounting the device

This section includes the following topics:

Enterprise Wi-Fi 6 APs features an attractive design with flexible mounting options that allows the APs to smoothly blend into any business environment. Enterprise Wi-Fi 6 APs are mounted in the following methods:

- Wall Mount
- Ceiling Mount
- T-bar Mount

- Pole Mount
- Gang mount
- Table mount
- Single gang mount
- General wall mount

[Table 6](#) provides an overview of the type of mountings each Enterprise Wi-Fi 6 APs supports.

Table 7: Types of mounting the device

Access Point	Wall Mount	Ceiling Mount	T-bar Mount	Pole Mount	Table Mount	Single Gang Mount
XE5-8	✓	✓	✓			
XV3-8	✓	✓	✓			
XV2-2	✓	✓	✓			
XV2-2T	✓			✓		
XV2-2T1	✓			✓		
XE3-4	✓	✓	✓			
XV2-21X	✓	✓	✓			
XV2-23T	✓			✓		
XV2-22H	✓				✓	✓

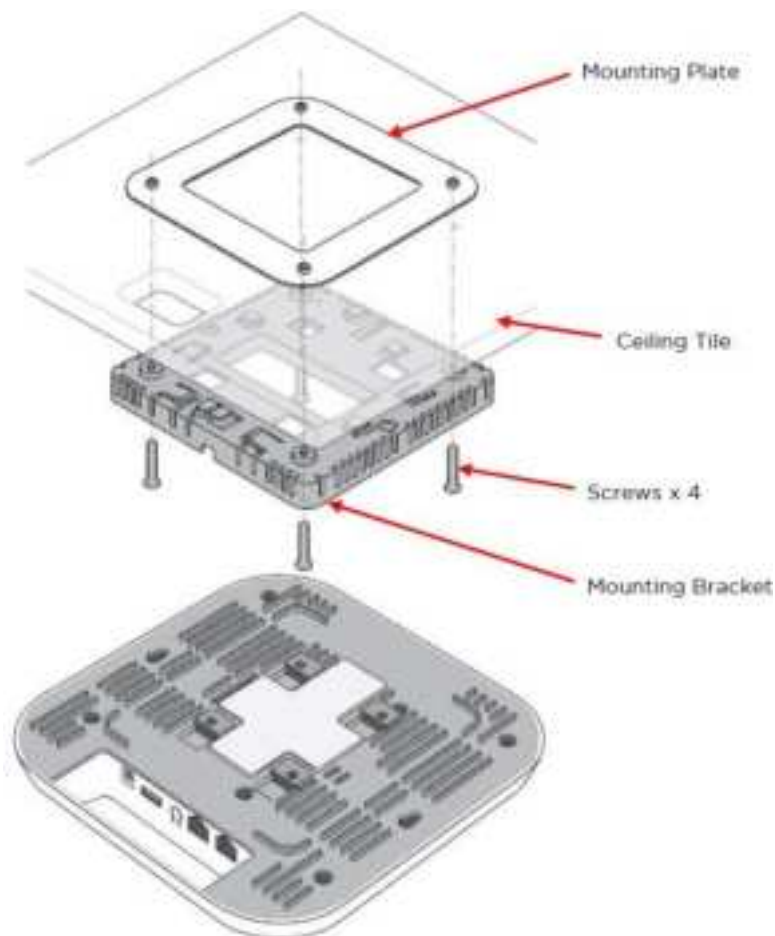
Mounting XV3-8

The XV3-8 units are mounted either by ceiling mount, wall mounting or T-bar mounting method.

Ceiling mount

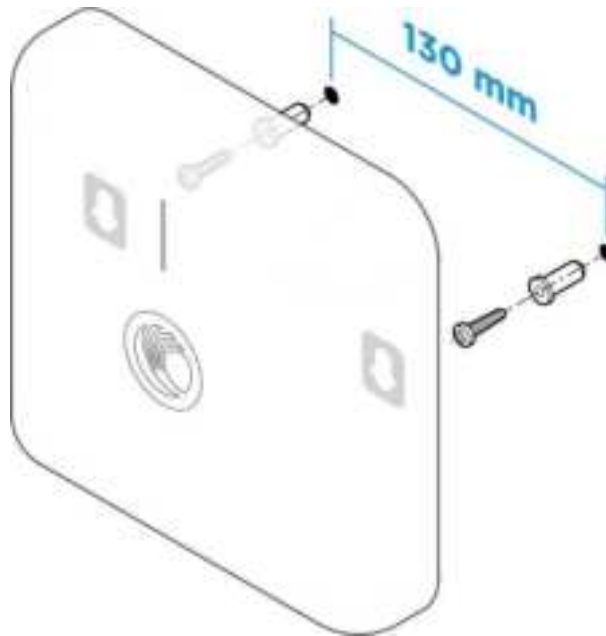
To mount the XV3-8 unit on the ceiling, perform the following steps:

1. Determine where XV3-8 needs to be mounted and remove the ceiling tile.
2. Using the hole template, mark the hole locations.
3. Drill the holes for the four mounting screws using a 5 mm (3/6") diameter drill bit.
4. Drill a hole for the RJ45 cable using a 15 mm (5/8") diameter bit.
5. Hold the mounting plate on the top side of the ceiling tile and screw it on the mounting bracket.
6. Run the RJ45 cable (s) through the 15 mm hole and remount the ceiling tile.
7. Attach the RJ45 cable (s) to the XV3-8 unit.
8. Slide the XV3-8 unit into the mounting bracket.



Wall mounting

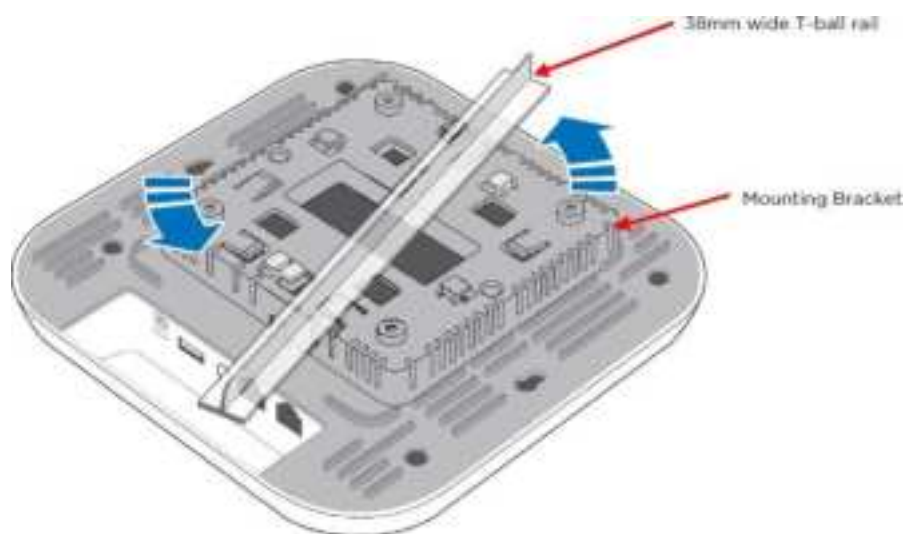
You can mount XV3-8 unit to any wall by using two screws with corresponding wall anchors. The ceiling mount bracket can be used as a template to align the screws with the unit.



T-bar Mounting

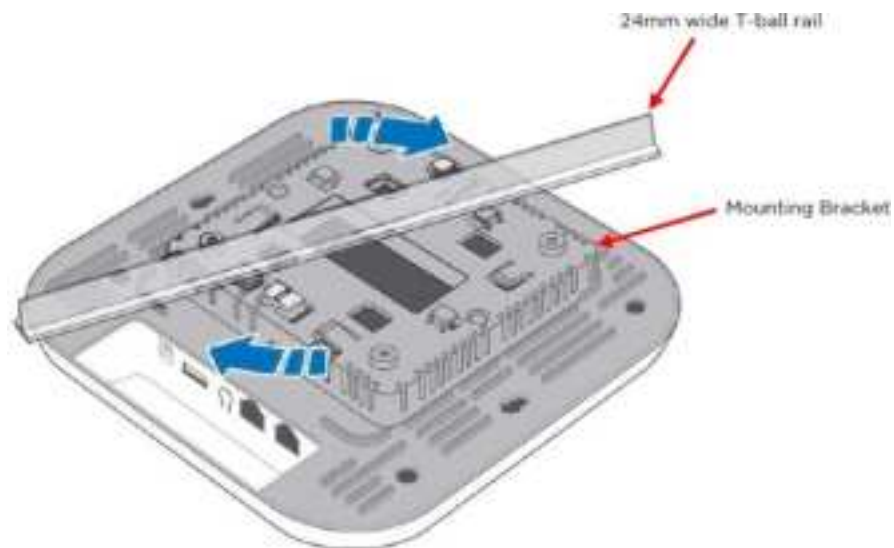
The XV3-8 can be secured to a 38mm ceiling T-bar rail by using the ceiling mount bracket. The A marking on the bracket must be used for this width T-bar rail.

38mm T-Bar



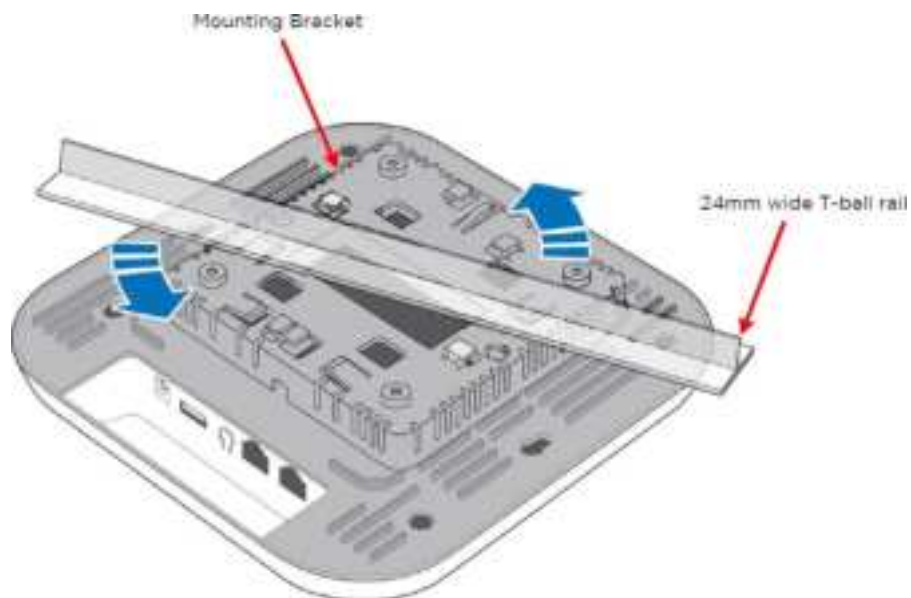
24mm T-Bar

The XV3-8 unit can be mounted to a 24mm width T-bar rail using the clips built into the underside of the unit. The B marking on the bracket must be used for this width T-bar rail.



14mm T-Bar

The XV3-8 unit can be mounted to a 14mm width T-bar rail using the clips built into the underside of the unit. The C marking on the bracket must be used for this width T-bar rail.



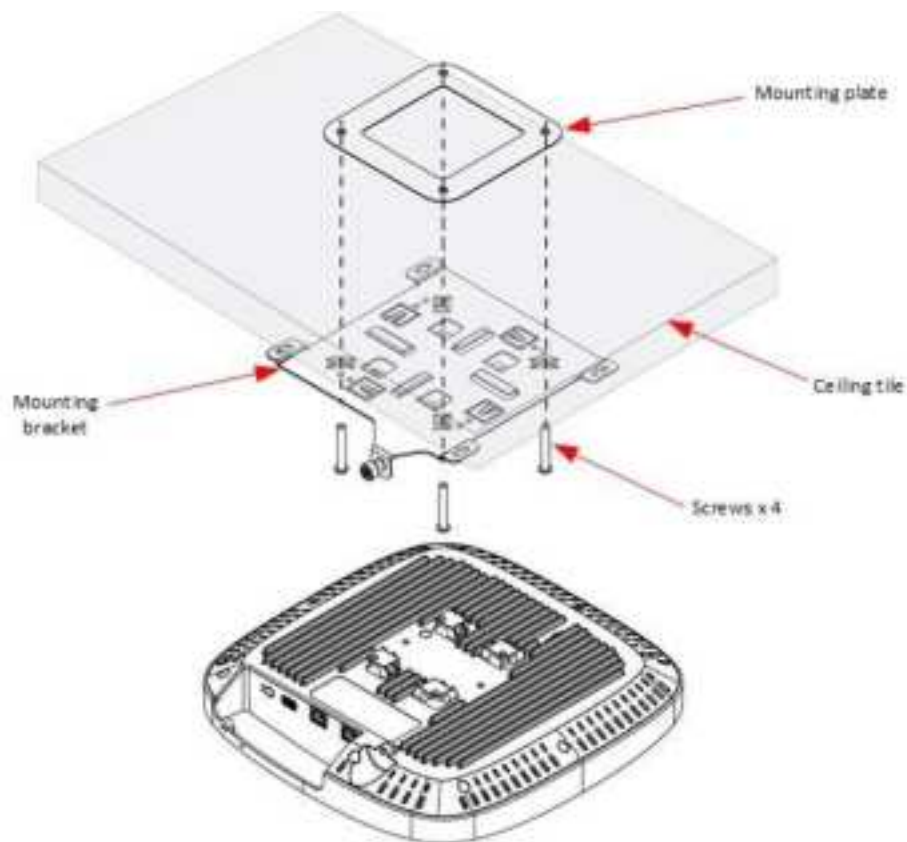
Mounting XE5-8

The XE5-8 units are mounted either by ceiling mount, wall mounting or T-bar mounting method.

Ceiling mount

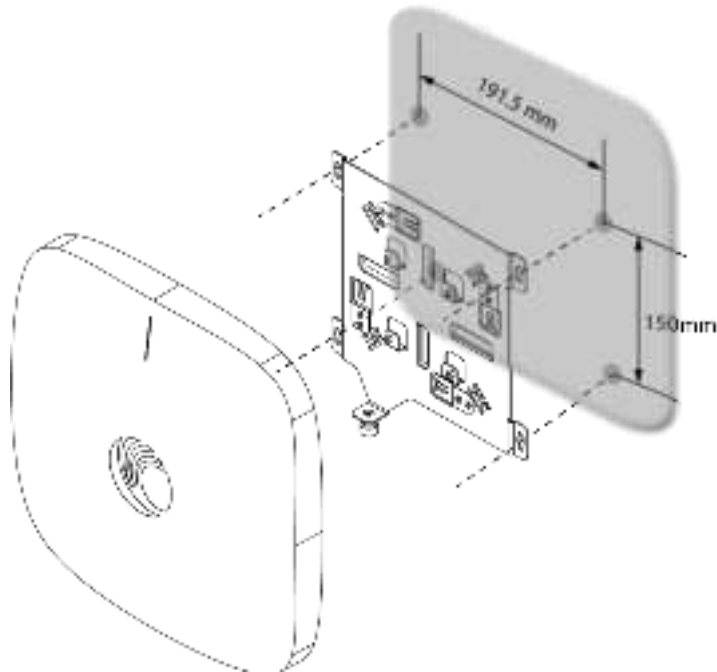
To mount the XE5-8 unit on the ceiling, perform the following steps:

1. Determine where XE5-8 needs to be mounted and remove the ceiling tile.
2. Using the hole template, mark the hole locations.
3. Drill the holes for the four mounting screws using a 5 mm (3/6") diameter drill bit.
4. Drill a hole for the RJ45 cable using a 15 mm (5/8") diameter bit.
5. Hold the mounting plate on the top side of the ceiling tile and screw it on the mounting bracket.
6. Run the RJ45 cable (s) through the 15 mm hole and remount the ceiling tile.
7. Attach the RJ45 cable (s) to the XE5-8 unit.
8. Slide the XE5-8 unit into the mounting bracket.



Wall mounting

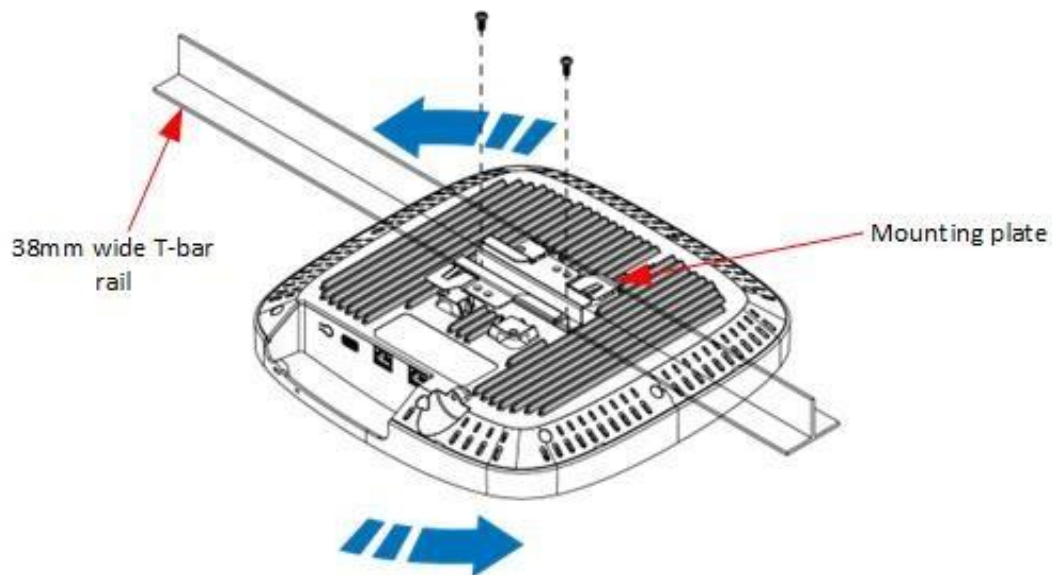
You can mount XE5-8 unit to any wall by using two screws with corresponding wall anchors. The ceiling mount bracket can be used as a template to align the screws with the unit.



T-bar Mounting

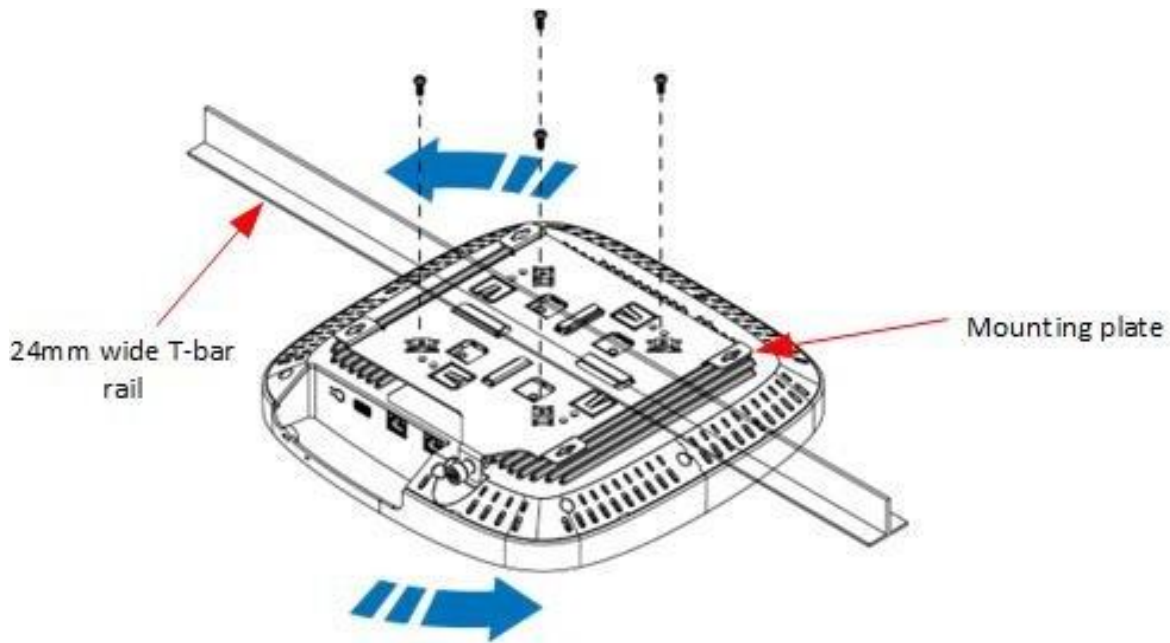
The XE5-8 can be secured to a 38mm ceiling T-bar rail by using the ceiling mount bracket. The A marking on the bracket must be used for this width T-bar rail.

38mm T-Bar



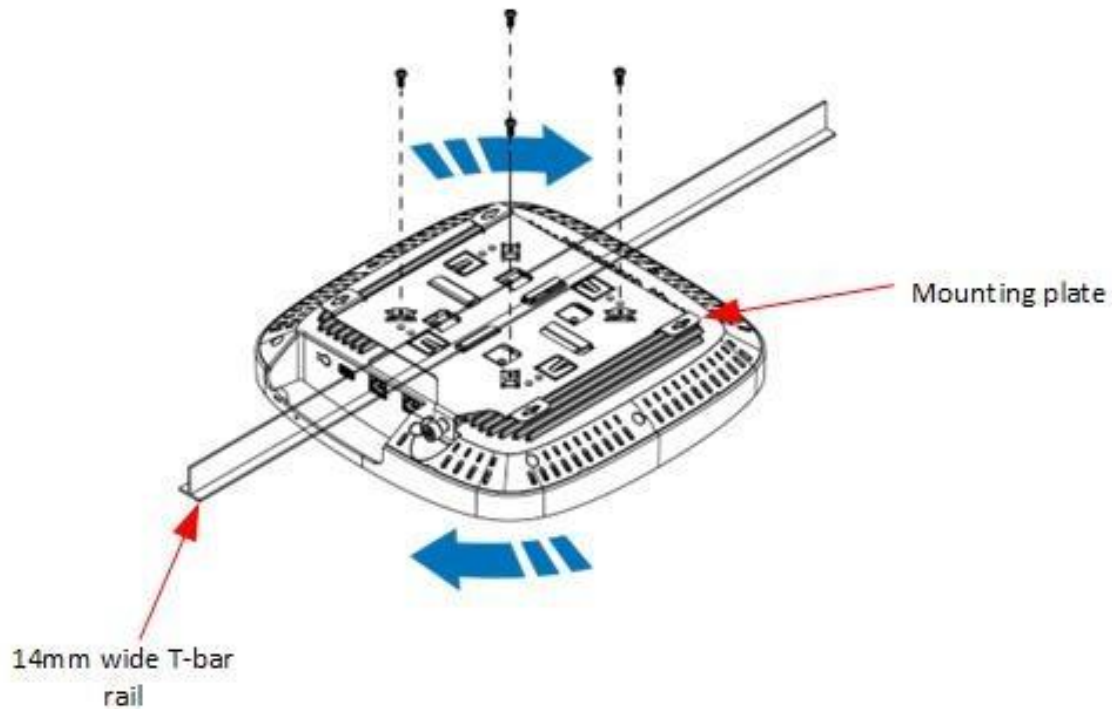
24mm T-Bar

The XE5-8 unit can be mounted to a 24mm width T-bar rail using the clips built into the underside of the unit. The B marking on the bracket must be used for this width T-bar rail.



14mm T-Bar

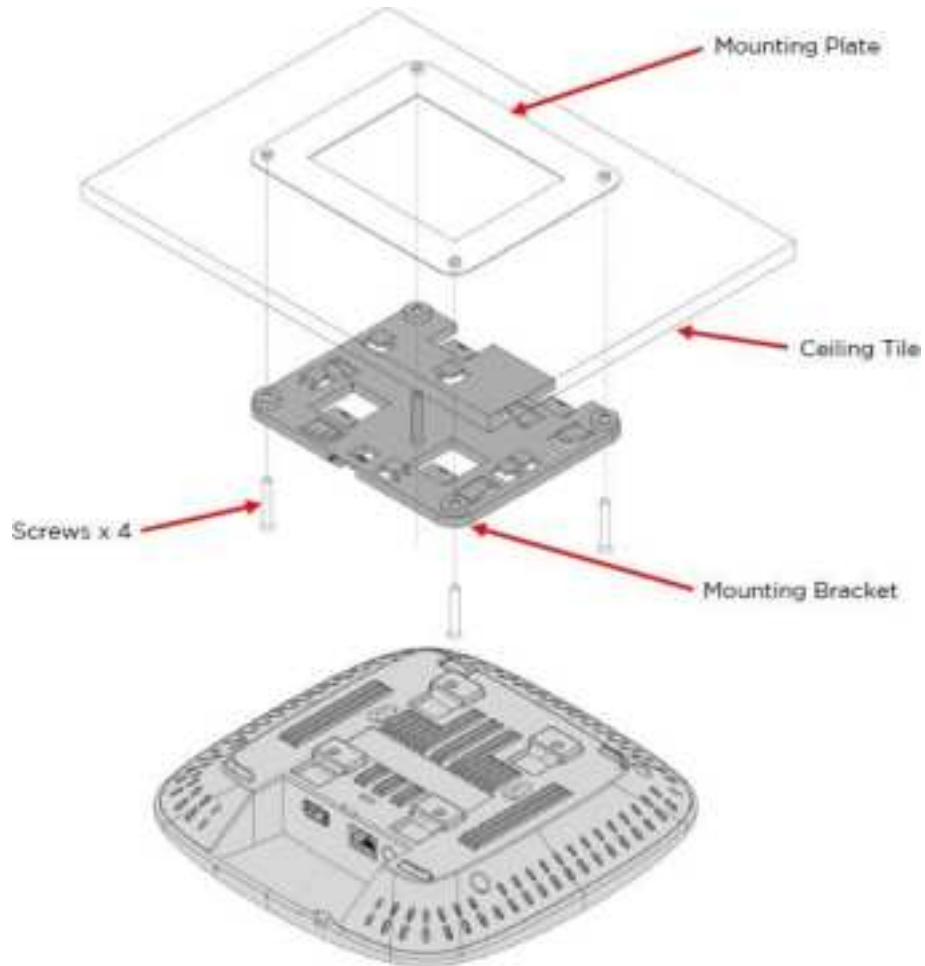
The XE5-8 unit can be mounted to a 14mm width T-bar rail using the clips built into the underside of the unit. The C marking on the bracket must be used for this width T-bar rail.



Mounting XV2-2

The XV2-2 units are mounted either by using the ceiling mount, wall mounting or T-bar mounting method.

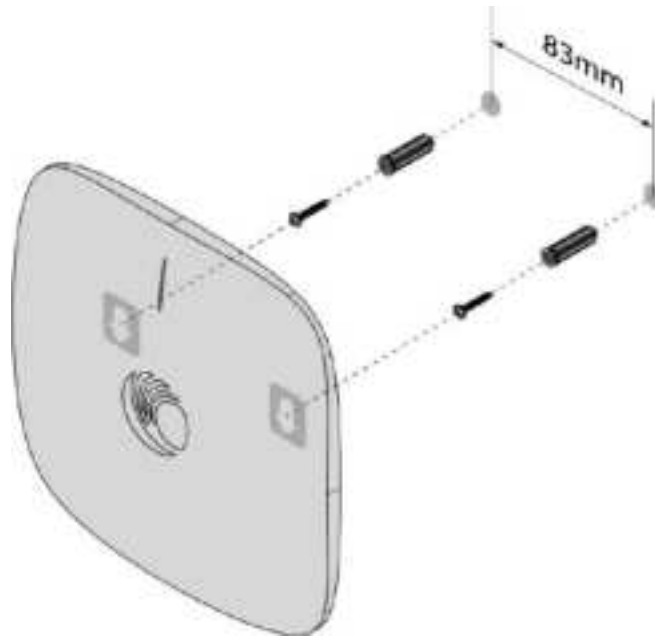
Ceiling mount



1. Determine where XV2-2 needs to be mounted and remove the ceiling tile.
2. Using the hole template, mark the hole locations.
3. Drill the holes for the 4 mounting screws using a 5mm (3/6") diameter drill bit.
4. Drill the RJ45 cable hole using a 15 mm (5/8") diameter bit.
5. Hold the mounting plate on the top side of the ceiling tile and screw it on the mounting bracket.
6. Run the RJ45 cable (s) through the 15mm hole and remount the ceiling tile.
7. Attach the RJ45 cable (s) to XV2-2 unit .
8. Slide XV2-2 into the mounting bracket.

Wall mounting

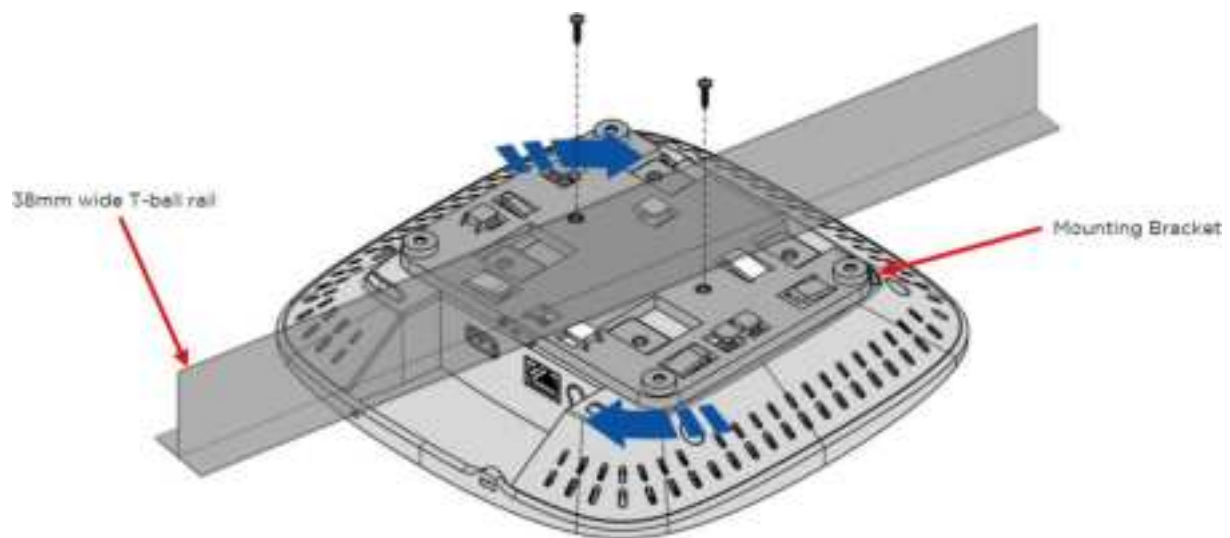
You can mount XV2-2 unit to any wall by using two screws with corresponding wall anchors. The ceiling mount bracket can be used as a template to align the screws with the unit.



T-bar mounting

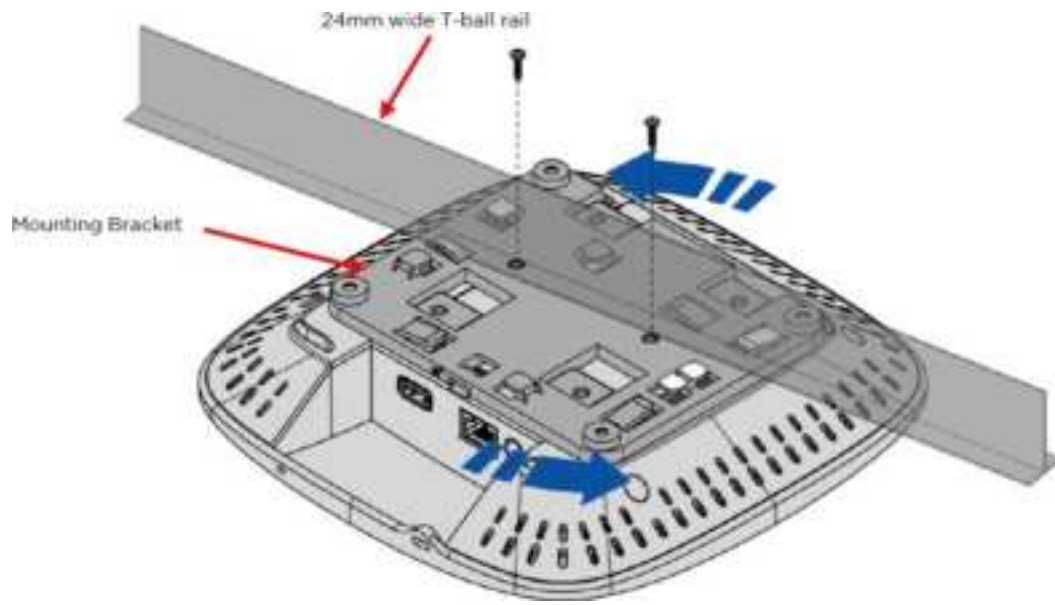
The XV2-2 unit can be secured to a 38mm ceiling T-bar rail by using the ceiling mount bracket. The A marking on the bracket must be used for this width T-bar rail.

38mm T-Bar



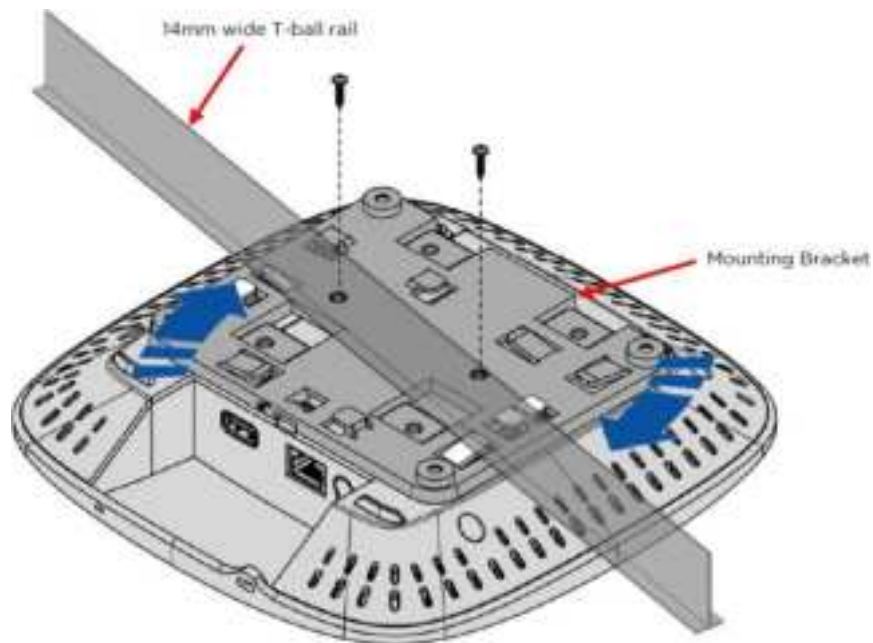
24mm T-Bar

The XV2-2 unit can be mounted to a 24mm width T-bar rail using the clips built into the underside of the unit. The B marking on the bracket must be used for this width T-bar rail.



14mm T-Bar

The XV2-2 unit can be mounted to a 14mm width T-bar rail using the clips built into the underside of the unit. The C marking on the bracket must be used for this width T-bar rail.



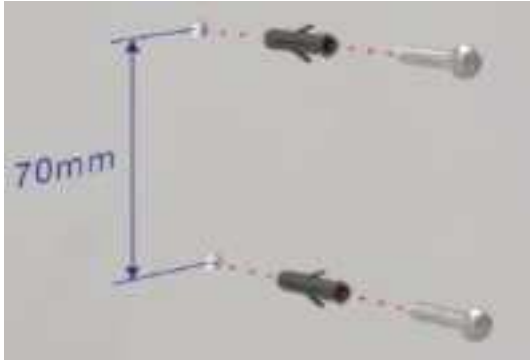
Mounting XV2-2T/XV2-2T1

The XV2-2T/XV2-2T1 units are mounted either by using the wall mounting or pole mounting method.

Wall mounting

The XV2-2T/XV2-2T1 units can be mounted to any wall by using two screws with corresponding wall anchors. To mount the XV2-2T/XV2-2T1 unit on the wall, perform the following steps:

1. Drill two holes of each $\varnothing 6$ mm ($\varnothing 0.25$ " Inch) on the wall where you want to mount the XV2-2T/XV2-2T1 AP.



2. Press fit the plastic anchor and assemble fastener.
3. Leave 5mm to 6mm gap between the wall and the fastener head, as shown in below figure.



4. Use the four mounting slots given on the back of the radio to mount it on the wall.
5. Make sure that four screws are attached to the back side of the XV2-2T/XV2-2T1 unit. Do not tighten the screws, completely.



6. Hang the XV2-2T unit to the wall mount bracket and tighten the four screws as shown in below figure.



Pole mount with level bracket

To mount the XV2-2T/XV2-2T1 unit on the pole, perform the following steps:

1. Insert the hose mounting clamp through the pole mounting level bracket.



2. Fix the clamp to the pole by applying 9.0 Nm torque.



3. Fasten four mounting screws.
4. Align the chassis with the guide hole of the pole mounting level bracket and



5. Slide it downwards.



Pole mount with tilt bracket (Only for XV2-2T1)

To mount the XV2-2T1 unit on the pole, perform the following steps:

1. Assemble the pole mount holder to XV2-2T1 by using the four M5 screws, as shown below.



2. Install the pole mount bracket to the pole by using two hose clamps with the 9Nm torque.



3. Assemble XV2-2T1 (with pole mount holder) to pole mount bracket. Use M12 stud, washer, and M12 nut to secure it by applying 3Nm torque, as shown below.

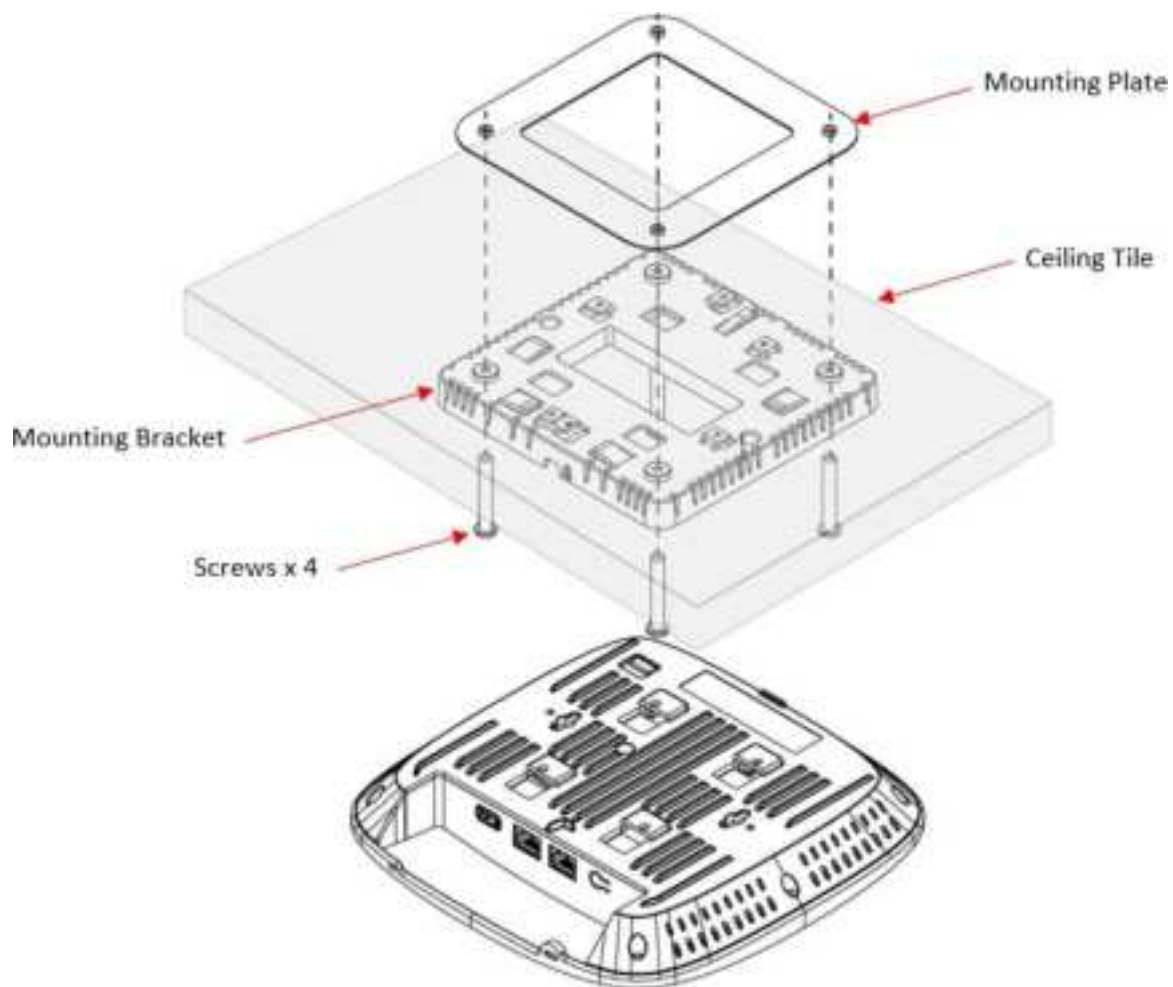


Mounting XE3-4

The XE3-4 units are mounted by using one of the following mounting techniques:

- Ceiling mount,
- Wall mounting, or
- T-bar mounting.

Ceiling mount



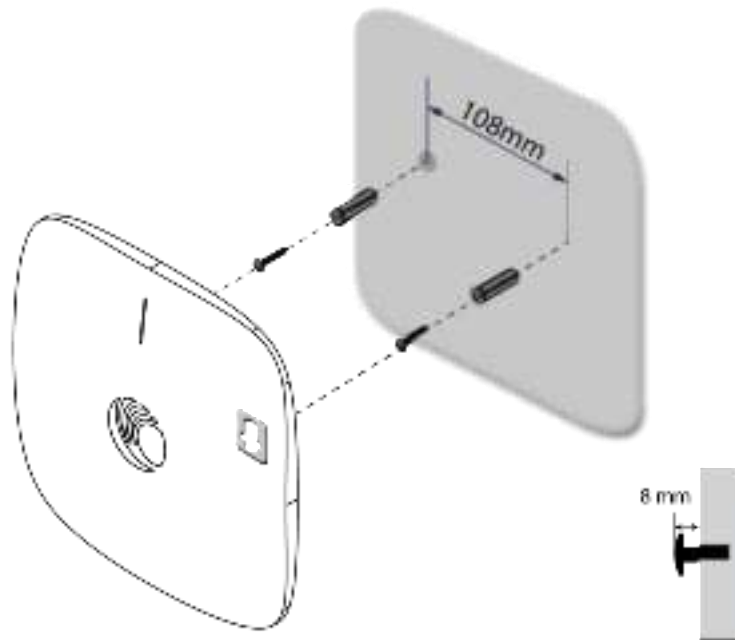
To mount the XE3-4 unit by using the ceiling mount technique, perform the following steps:

1. Determine a place or location where you want to mount the XE3-4 unit.
2. Remove the ceiling tile.
3. Using the hole template, mark the hole locations.
4. Drill the holes for the four mounting screws using a 5mm (3/6") diameter drill bit.

5. Drill the RJ45 cable hole using a 15 mm (5/8") diameter bit.
6. Hold the mounting plate on the top side of the ceiling tile and screw it on the mounting bracket.
7. Run the RJ45 cable (s) through the 15mm hole and remount the ceiling tile.
8. Attach the RJ45 cable (s) to XE3-4 unit.
9. Slide XE3-4 unit into the mounting bracket.

Wall mounting

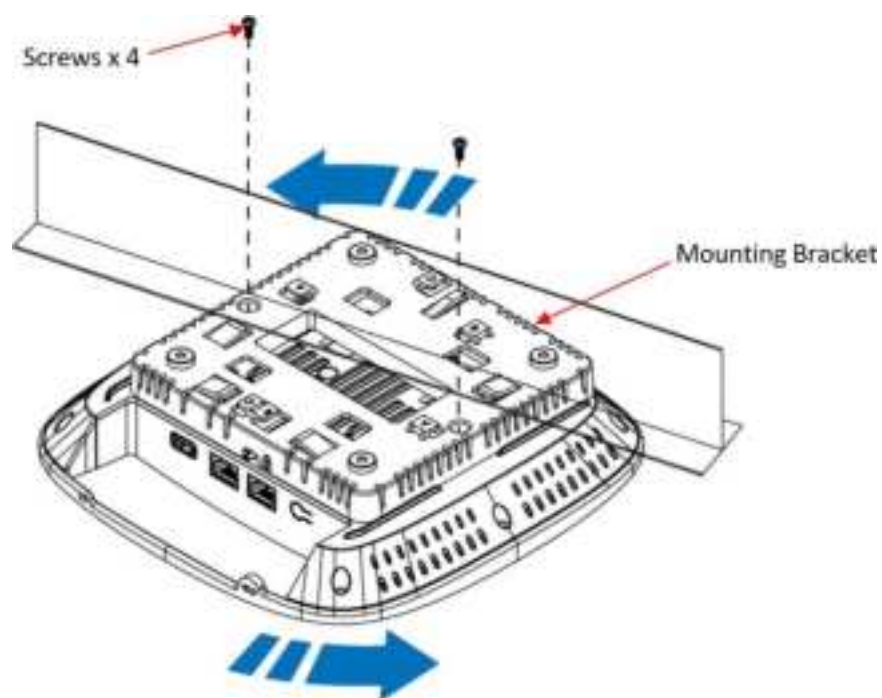
You can mount XE3-4 to any wall by using two screws with corresponding wall anchors. The ceiling mount bracket can be used as a template to align the screws with the unit.



T-bar mounting

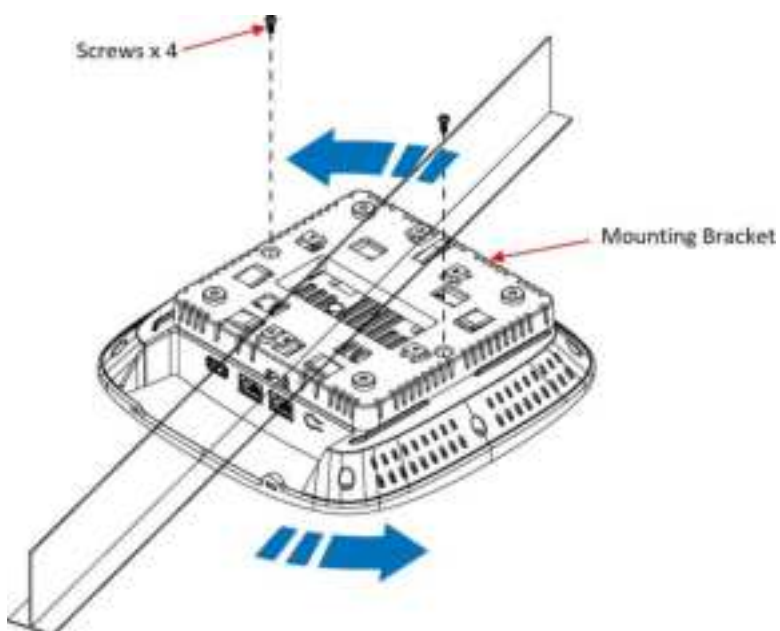
38mm T-Bar

The XE3-4 unit can be secured to a 38mm ceiling T-bar rail by using the ceiling mount bracket. The A marking on the bracket must be used for this width T-bar rail.



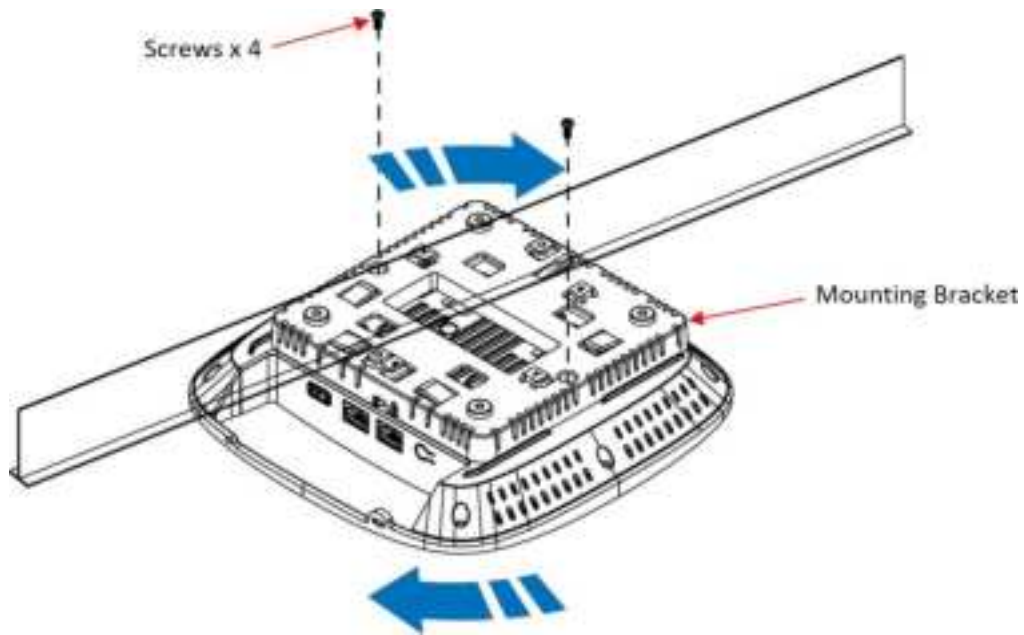
24mm T-Bar

The XE3-4 unit can be mounted to a 24mm width T-bar rail using the clips built into the underside of the unit. The B marking on the bracket must be used for this width T-bar rail.



14mm T-Bar

The XE3-4 unit can be mounted to a 14mm width T-bar rail using the clips built into the underside of the unit. The C marking on the bracket must be used for this width T-bar rail.

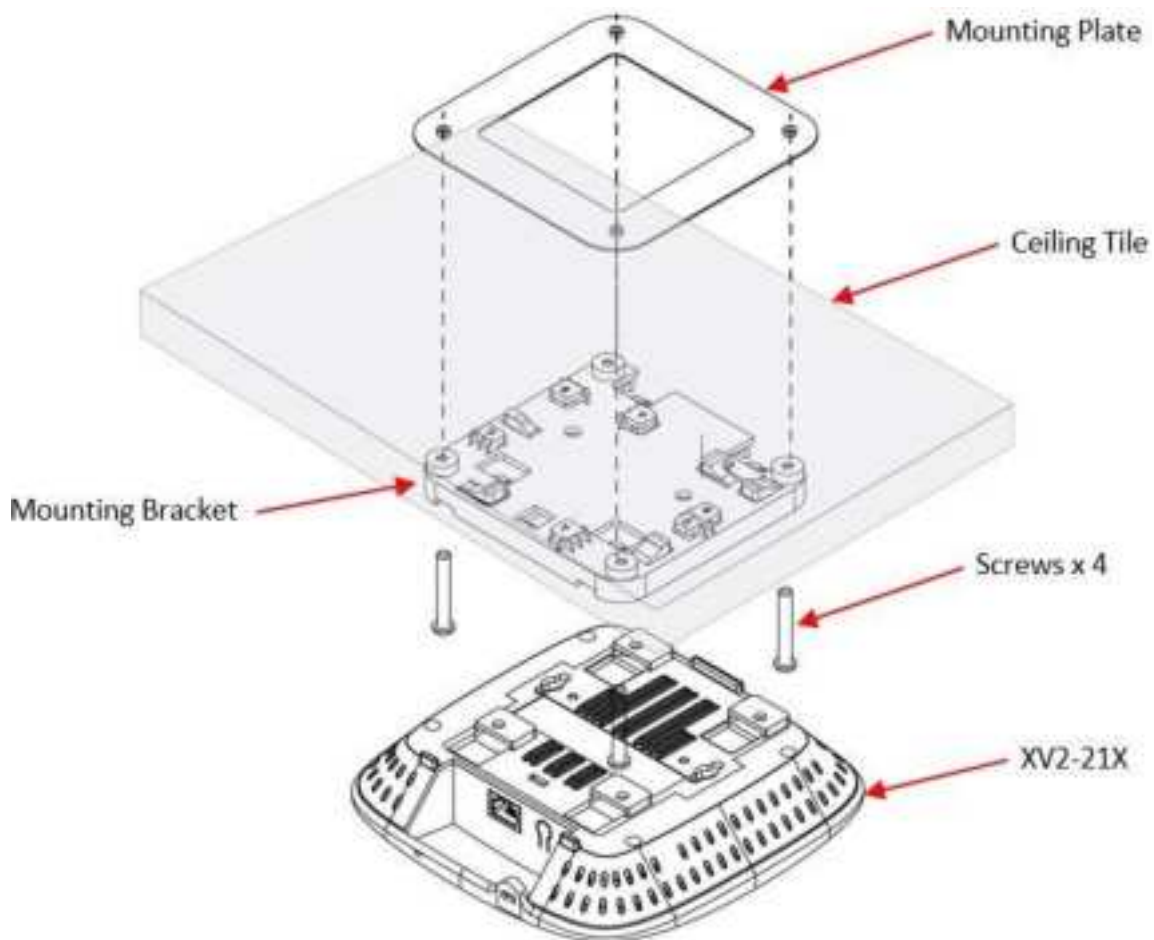


Mounting XV2-21X

The XV2-21X units are mounted by using one of the following mounting techniques:

- Ceiling mount,
- Wall mounting, or
- T-bar mounting.

Ceiling mount



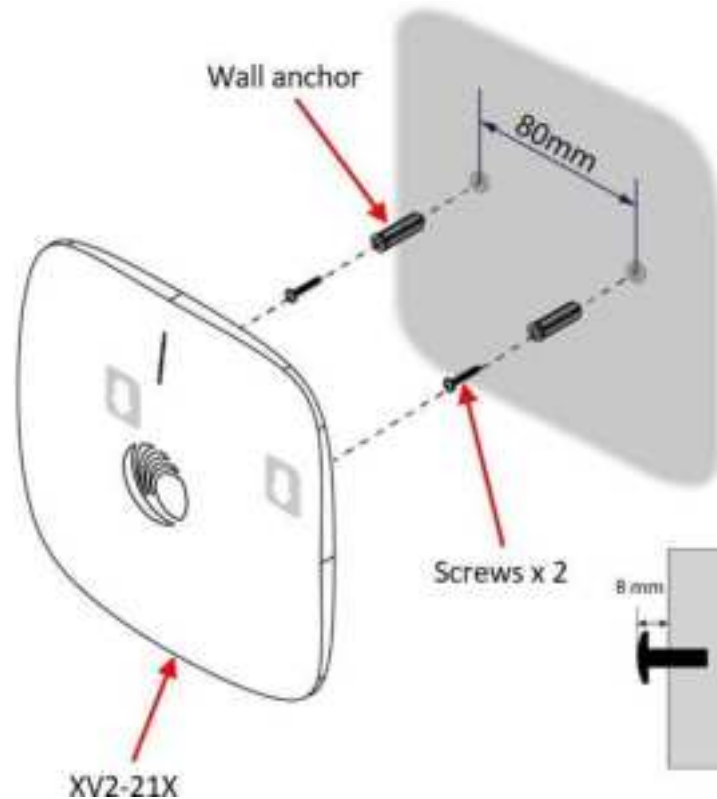
To mount the XV2-21X unit by using the ceiling mount technique, perform the following steps:

1. Determine a place or location where you want to mount the XV2-21X unit.
2. Remove the ceiling tile.
3. Using the hole template, mark the hole locations.
4. Drill the holes for the four mounting screws using a 5mm (3/6") diameter drill bit.
5. Drill the RJ45 cable hole using a 15 mm (5/8") diameter bit.

6. Hold the mounting plate on the top side of the ceiling tile and screw it on the mounting bracket.
7. Run the RJ45 cable (s) through the 15mm hole and remount the ceiling tile.
8. Attach the RJ45 cable (s) to XV2-21X unit.
9. Slide the XV2-21X unit into the mounting bracket.

Wall mounting

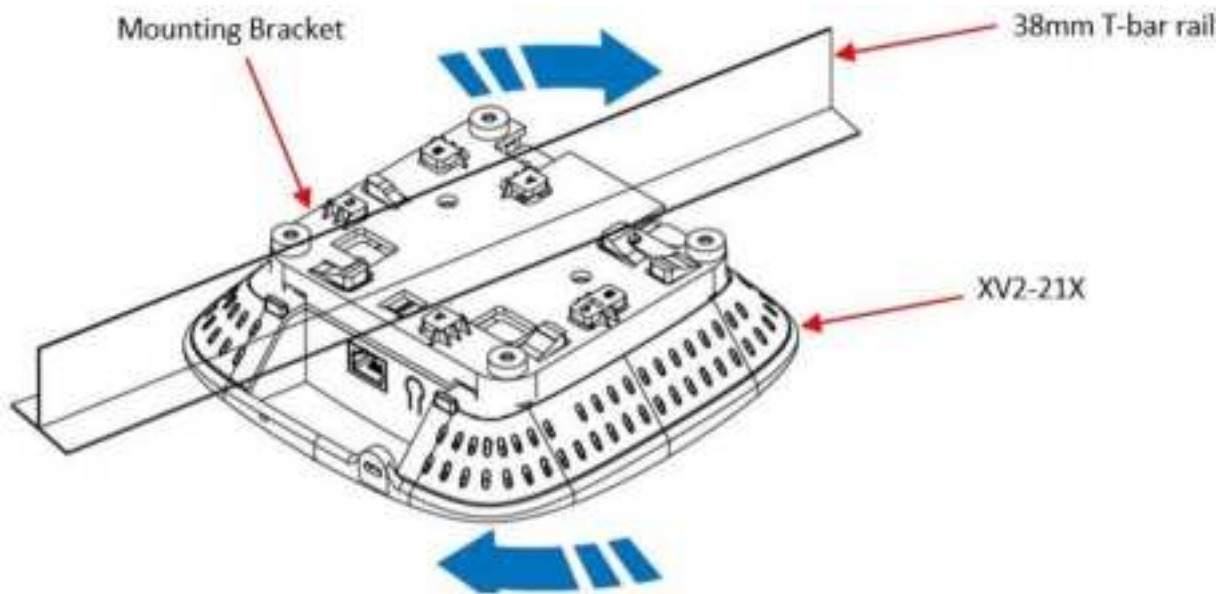
You can mount XV2-21X to any wall by using two screws with corresponding wall anchors. The ceiling mount bracket can be used as a template to align the screws with the unit.



T-bar mounting

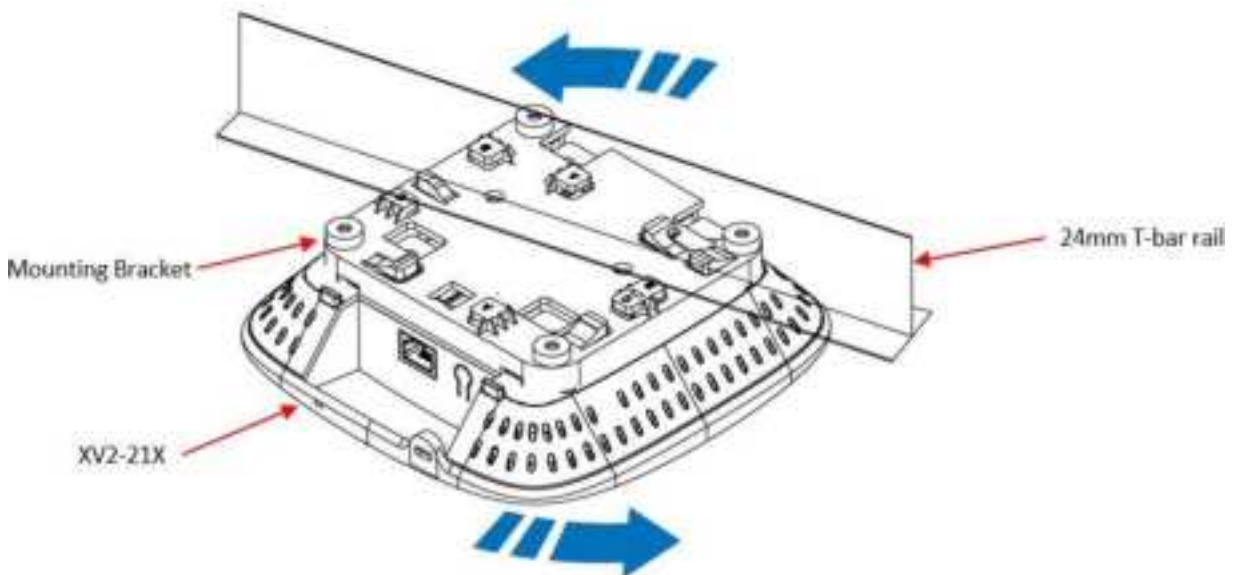
38mm T-Bar

The XV2-21X unit can be secured to a 38mm ceiling T-bar rail by using the ceiling mount bracket. The A marking on the bracket must be used for this width T-bar rail.



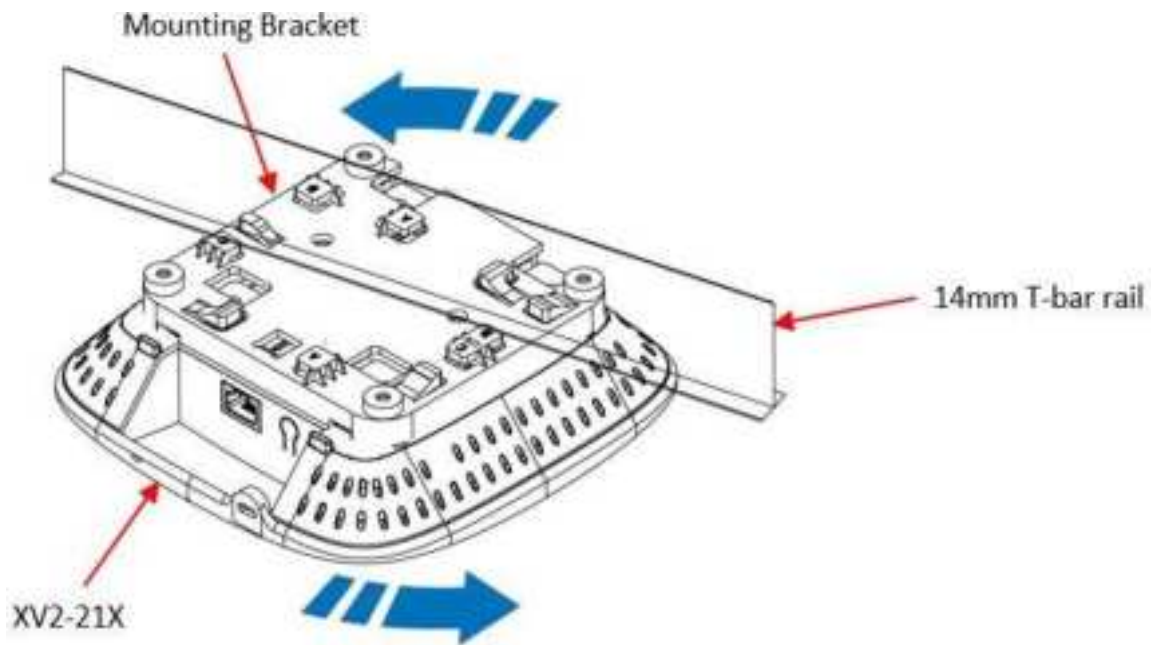
24mm T-Bar

The XV2-21X unit can be mounted to a 24mm width T-bar rail using the clips built into the underside of the unit. The B marking on the bracket must be used for this width T-bar rail.



14mm T-Bar

The XV2-21X unit can be mounted to a 14mm width T-bar rail using the clips built into the underside of the unit. The C marking on the bracket must be used for this width T-bar rail.



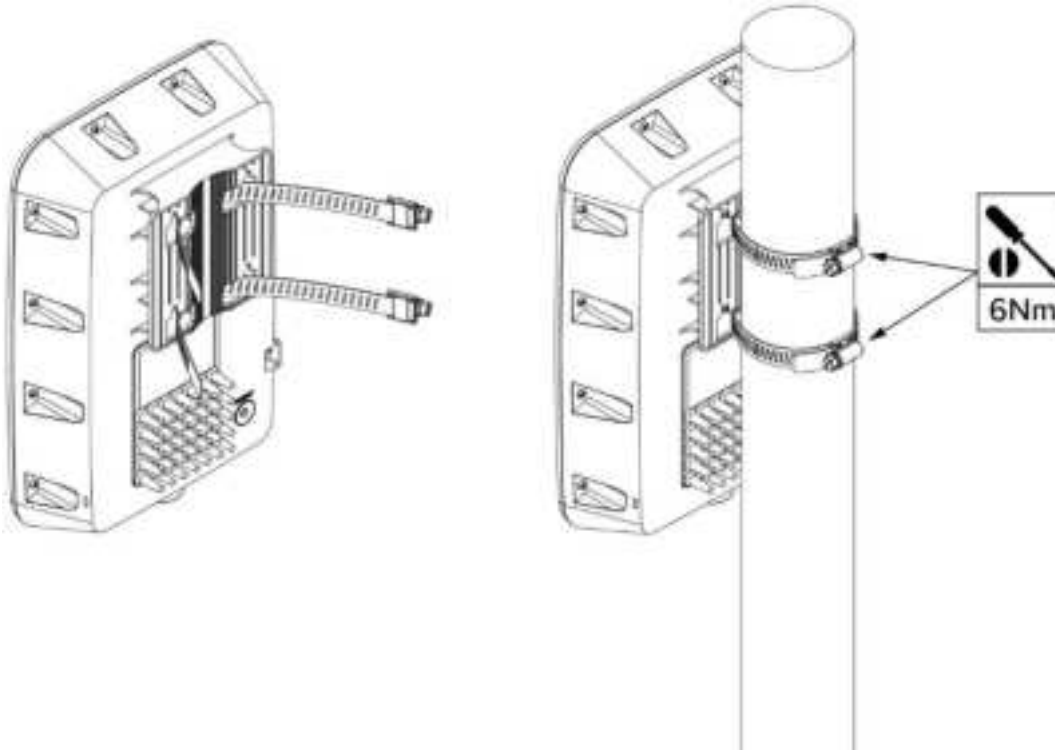
Mounting XV2-23T

The XV2-23T units are mounted by using one of the following mounting techniques:

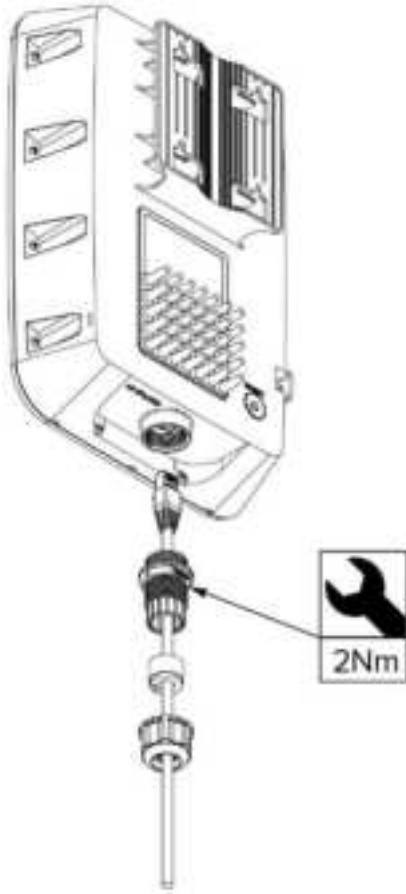
- Pole mount, or
- Wall mounting

Pole mount

1. Insert hose clamps through pole mounting bracket and clamp to pole by applying 6.0 Nm torque.



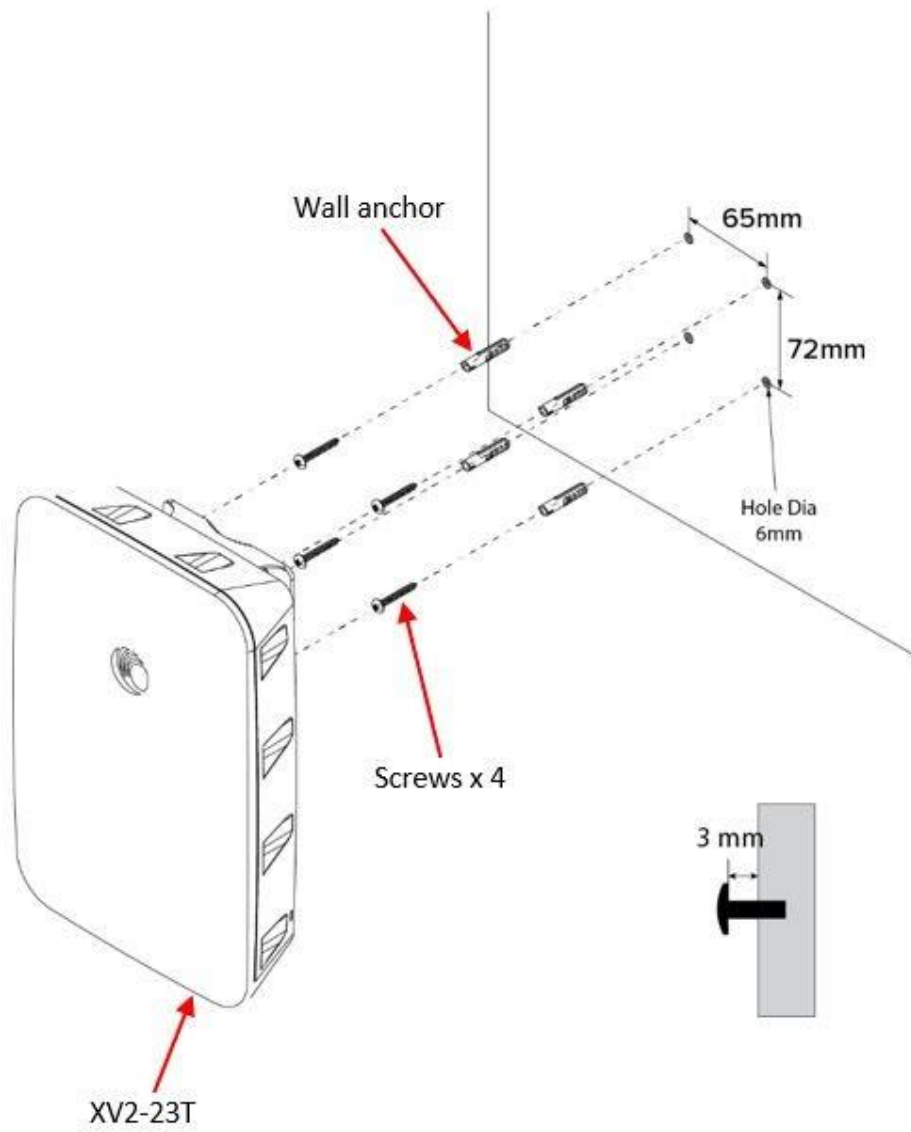
2. Insert RJ45 cable into cable gland, and connect the cable to the device.



3. Lock cable gland to radio housing with 1.5 Nm to 2 Nm torque.

Wall mounting

1. Drill 4 holes of Ø6mm (Ø0.25" Inch) on wall.
2. Press fit plastic anchor and assembly fastener.
3. Leave 5mm to 6mm gap between wall and fastener head.
4. Use the four mounting slots given on the back of the radio to mount to the wall.



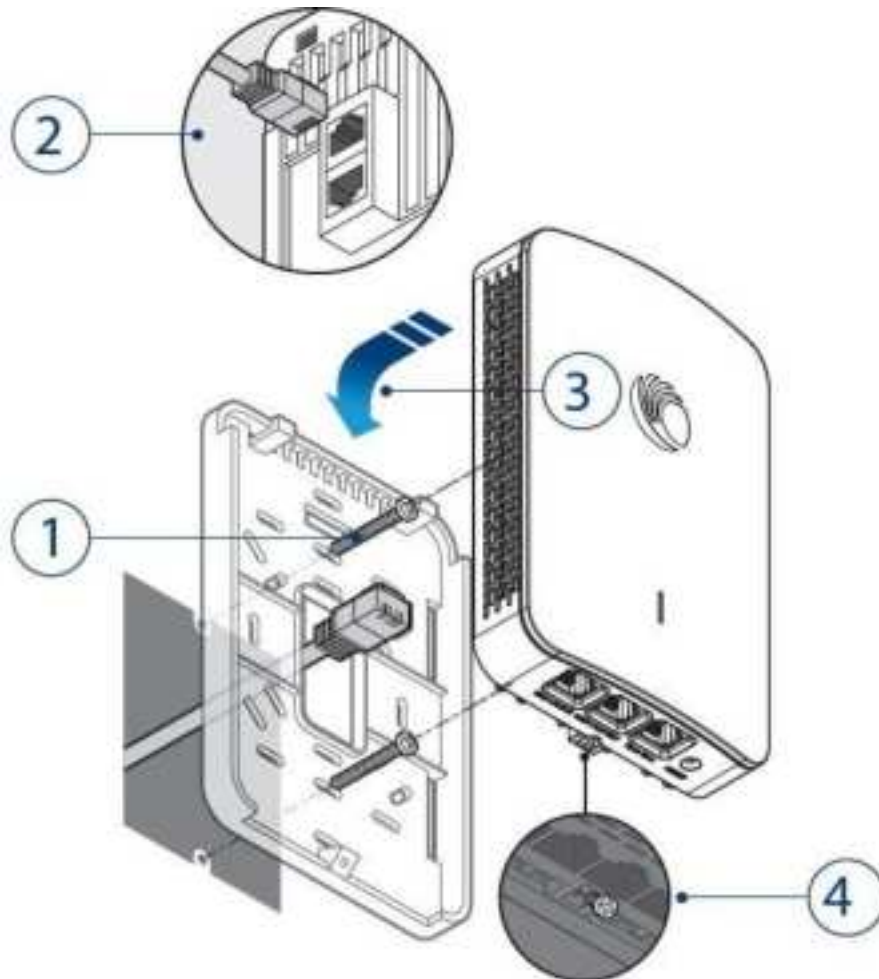
Mounting XV2-22H

The XV2-22H units are mounted by using one of the following mounting techniques:

- Single gang mounting, or
- Wall mounting

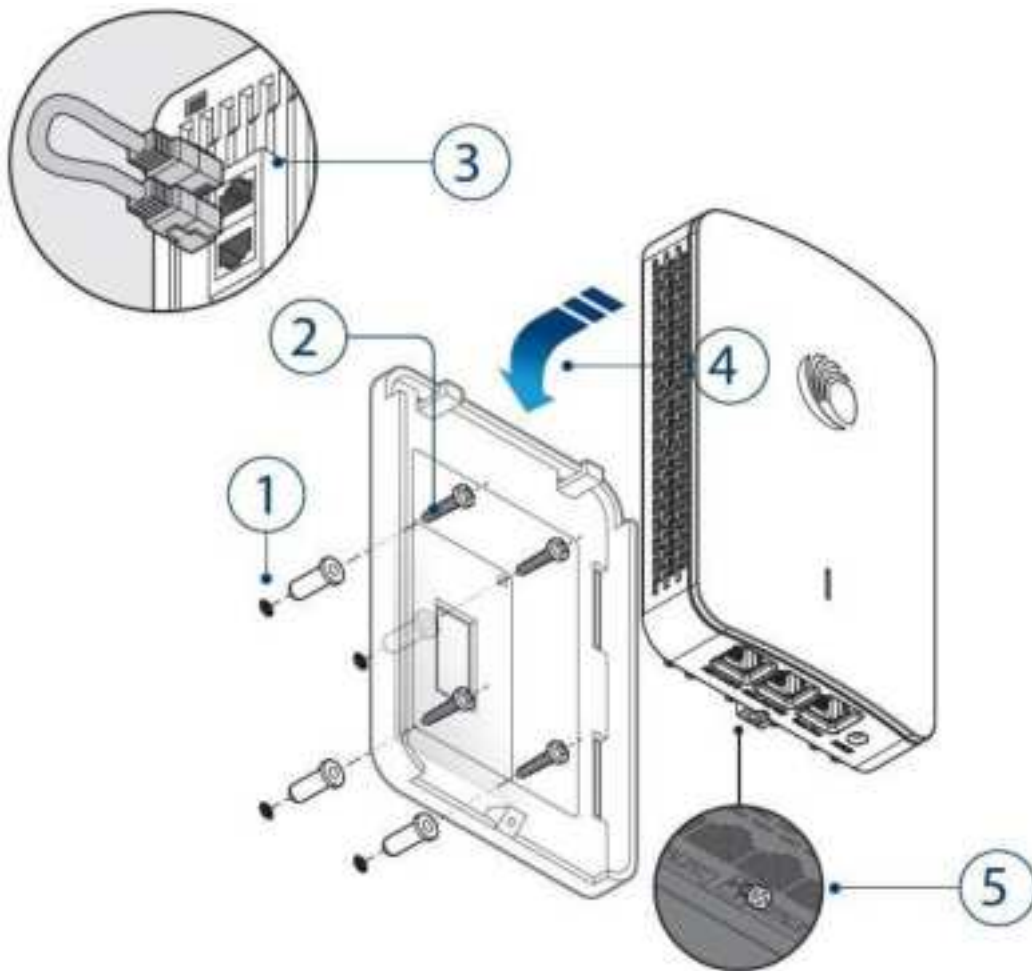
Single gang mounting

1. Place single-gang wall bracket on the gang box and secure with at least 2 screws.
2. Connect the Ethernet cable to the upper RJ-45 port labeled Eth1/PoE at the rear side of XV2-22H to provide connectivity. Use the other RJ-45 port labeled Pass-Through for any additional cable that might need to pass through XV2-22H.
3. Align the two slots on the rear side of the XV2-22H with two hooks on the bracket.
4. Secure XV2-22H to the bracket with a screw at the bottom edge of XV2-22H using a standard Torx security screw or standard Philips head screw.



Wall mounting

1. Choose location on the wall to mount the bracket using the four mounting screws and anchors (if needed).
2. Connect the short Ethernet jumper cable between the two RJ-45 connections on the rear side of XV2-22H.
3. Mount XV2-22H into the generic wall bracket by aligning the hooks.
4. Secure XV2-22H to the bracket using Torx (or standard) screw on the lower edge of XV2-22H.
5. Power XV2-22H either with a 48VDC/1A power adapter or using the PASS-THRU port at the bottom edge of the device using Ethernet power.



Cambium Networks

Cambium Networks delivers wireless communications that work for businesses, communities, and cities worldwide. Millions of our radios are deployed to connect people, places, and things with a unified wireless fabric that spans multiple standards and frequencies of fixed wireless and Wi-Fi, all managed centrally via the cloud. Our multi-gigabit wireless fabric offers a compelling value proposition over traditional fiber and alternative wireless solutions. We work with our Cambium certified Connected Partners to deliver purpose built networks for service provider, enterprise, industrial, and government connectivity solutions in urban, suburban, and rural environments, with wireless that just works.

Support website	https://support.cambiumnetworks.com
Support enquiries	
Technical training	https://learning.cambiumnetworks.com/learn
Main website	http://www.cambiumnetworks.com
Sales enquiries	solutions@cambiumnetworks.com
Warranty	https://www.cambiumnetworks.com/support/standard-warranty/
Telephone number list	http://www.cambiumnetworks.com/contact-us/
User Guides	http://www.cambiumnetworks.com/guides
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Cambium Networks™

XV2-22H Wi-Fi 6 Indoor Wall Plate Access Point 802.11ax 2x2 GbE

Installation and operation of this product are complex, therefore Cambium Networks recommends professional installation and management of the system to ensure that the operation complies with UK regulations. Follow the instructions in this leaflet. Further guidance on installation and operation is available in the product user guide. See weblinks on the front page.

An installer must have sufficient skills, knowledge, and experience to perform the installation task, and is responsible for:

- Familiarizing with current applicable national regulations including radio regulations, electrical installation regulations, and surge protection regulations.
- Installing in accordance with Cambium Networks instructions.
- Confirming that the equipment settings are compliant with national or regional regulations.

Observe the following important instructions during installation. This will set the equipment in compliance with national regulatory regulations:

- Ensure that the XV2-Series equipment is running on the latest 6.x firmware version. The software is available on the Cambium Networks Support Centre website.
- While setting up the equipment, verify that the correct region code is set (the region code is pre-set in the factory for EU products) and then select the UK country code where the product is being deployed.

Changes or modifications, which are not expressly approved by Cambium Networks, could void the user's authority to operate the equipment and may void the manufacturer's warranty.

Intended Use (United Kingdom (UK))

The enterprise Wi-Fi products from Cambium Networks are intended for delivering indoor wireless LAN data services. The XV2-22H is a dual-radio Wall Plate Access Point and device with an internal antenna. The 802.11ax standard is more efficient than previous generations, providing performance enhancements, network segmentation, and improved battery life.

https://www.cambiumnetworks.com/guides

https://learning.cambiumnetworks.com

https://support.cambiumnetworks.com

https://www.cambiumnetworks.com/support/standard-warranty/

Cambium Networks Ltd, Unit B2 Linhay Business Park, Eastern Road

Ashburton, Devon, TQ13 7UP, United Kingdom

Model#: XV2-22H

U zařizení řady XV2 instalovaných v EU je minimální bezpečná vzdálenost mezi zařízením a osobami 24 cm.

Omezení a požadavky na povolení k použití

- Toto zařízení je určené pouze k venkovnímu použití.
- Produkty řady XV2 lze konfigurovat pouze pro provoz v nelenovaných frekvenčních pásmech, která podléhají frekvencím plánování v rámci jednotlivých zemí. Operátoři nebo koncoví uživatelé musí zajistit, aby bylo zařízení instalováno a provozováno v souladu s předpisy platnými v zemi provozu.
- Používejte pouze s napájecím zdrojem LPS 42-57Vdc, 0,63A(min.) Gigabit Passive PoE injector, 802.3af at PSE

Zjednodušené prohlášení o shodě pro EU

Výrobce Cambium Networks Ltd. tímto prohlašuje, že rádiové zařízení typu XV2-22H splňuje požadavky směrnice 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na internetové adrese http://www.cambiumnetworks.com/eu_dofc

Směrnice o odpadních elektrických a elektronických zařízeních (OEEZ)

Nevyhazujte elektrická a elektronická zařízení ani elektrické a elektronické příslušenství do domovního odpadu. V některých zemích a regionech fungují systémy zajišťující sběr odpadních elektrických a elektronických zařízení. V zemi Evropské unie kontaktujte zástupce svého dodavatele zařízení nebo centrum podpory společnosti Cambium Networks a požádejte o informace o systému sběru odpadu ve své zemi.

Usage prévu

Les produits Wi-Fi pour professionnels de Cambium Networks sont destinés à la création de réseaux de données locaux sans fil intérieure. Le modèle XV2-22H utilise une conception à tri-radio et antennes internes. La norme 802.11ax offre un meilleur rendement que les normes des générations précédentes, elle apporte des améliorations de performances, une segmentation du réseau et une meilleure autonomie de la batterie.

Installation et fonctionnement

L'installation et l'utilisation de ce produit sont complexes, et Cambium Networks recommande de faire appel à un professionnel pour l'installation et la gestion du système. Suivez les instructions de l'assistant qui son fonctionnement suit conforme aux règlements de la région dans laquelle le produit est installé. Merci de suivre les instructions contenues dans cette fiche. D'autres directives sur l'installation et le fonctionnement sont disponibles dans le guide de l'utilisateur du produit, voir les liens fournis.

- L'installateur doit disposer de toutes les compétences, connaissances et expériences pour effectuer l'installation, et il sera responsable des éléments suivants:
- Se familiariser avec les réglementations nationales applicables en cours, incluant les normes de radio, les normes d'installation électrique, et les normes de protection contre les surtensions.
- L'installation en conformité avec les instructions de Cambium Networks.
- La confirmation que les réglages de l'équipement sont conformes aux réglementations nationales ou régionales.

Veuillez observer les importantes instructions suivantes lors de l'installation. Cela permettra de régler l'équipement conformément aux réglementations nationales.

- Assurez-vous que l'équipement de la série XV2 exécute la dernière version du micrologiciel 6.x. Le logiciel est disponible sur le site internet du Centre d'assistance de Cambium.

Connecting what matters

Az elektromos és elektronikus berendezések hulladékaíról szóló irányelv

Elektromos és elektronikus berendezéseket vagy tartozékokat nem helyezzen a háztartási szemétként. Egyes országokban a helyi regionális begyűjtő rendszerek működnek, amelyek felgyűlék az elektromos és elektronikus hulladékokat. Európai Unió országokban fordítlan helyi berendezésszolgáltatónak képviselőjéhez vagy a Cambium Networks támogatási központjához, ha többet szeretne megtudni országai hulladékgyűjtési rendszeréről.

Uso previsto

I prodotti Wi-Fi per uso aziendale di Cambium Networks sono destinati all'utilizzo nelle reti di dati LAN wireless per interni. Il modello XV2-22H è dotato di tre radio con antenne interne. Lo standard 802.11ax è più efficiente rispetto alle precedenti generazioni e offre prestazioni superiori, segmentazione della rete e una maggiore durata della batteria.

Installazione e funzionamento

L'installazione e il funzionamento di questo prodotto sono complessi. Per assicurare che il funzionamento sia conforme alle normative vigenti nel territorio in cui il dispositivo viene installato, Cambium Networks raccomanda quindi l'installazione e la gestione del sistema da parte di professionisti, nonché l'osservanza delle istruzioni riportate in questa scheda. Ulteriori indicazioni sull'installazione e sul funzionamento sono disponibili nella guida del prodotto per l'utente, al link web indicato.

L'installatore deve disporre di competenze, conoscenze ed esperienza sufficienti a eseguire l'installazione ed è responsabile per quanto segue:

- familiarità con le normative nazionali applicabili in vigore, comprese le norme sulle apparecchiature radio, sull'installazione elettrica, sulla protezione da sovratensioni e sui lavori in quota;
- l'installazione in conformità alle istruzioni di Cambium Networks;
- la conferma della corrispondenza delle impostazioni dell'apparecchiatura alle normative nazionali o regionali.

Durante l'installazione, osservare le seguenti istruzioni importanti che permettono di configurare l'apparecchiatura in conformità alle disposizioni delle normative nazionali.

- Assicurarsi che l'apparecchiatura della serie XV2 esegua l'ultima versione del firmware 6.x. Il software è disponibile sul sito Web del Centro assistenza di Cambium.
- Durante la configurazione dell'apparecchiatura, verificare che il codice regione impostato sia corretto (per i Paesi dell'UE, il codice della regione viene preimpostato in fabbrica) e selezionare il codice Paese corretto per il Paese in cui il prodotto viene installato.

Eventuali modifiche o cambiamenti non espressamente approvati da Cambium Networks potrebbero impedire all'utente di utilizzare l'apparecchiatura e rendere nulla la garanzia del produttore.

Informazioni sulla sicurezza del prodotto

osservare le regole di sicurezza riportate di seguito.

- Spegner e scollegare sempre l'apparecchiatura prima di effettuare la manutenzione. L'alimentatore di è il dispositivo di disconnessione primario. L'apparecchiatura non contiene parti riparabili.

Quando il trasmettitore è acceso, vivvi all'antenna sono presenti forti campi di radiofrequenza (RF).

Interrompere sempre l'alimentazione del dispositivo XV2-Series prima di effettuare interventi di manutenzione davanti all'antenna.

- Rispettare la distanza minima di sicurezza per i prodotti XV2-Series, indicata di seguito.
- Assicurarsi che l'apparecchiatura sia installata in una posizione tale da evitare qualsiasi rischio di radiazioni per le persone.

Operating frequency band	UK standard	Maximum power limit (EIRP)	Permitted usage	Units that support this frequency band
2401 - 2483 MHz	EN 300 328	100 mW / 20 dBm	Available for general use within the UK	All XV \ XV2-Series
5150 - 5350 MHz	EN 301 893	200 mW / 23 dBm		All XV \ XV2-Series
5470 - 5725 MHz	EN 301 893	1 W / 30 dBm		All XV \ XV2-Series
5725 - 5875 MHz	EN 302 502	4 W / 36 dBm		All XV \ XV2-Series

For the XV2-Series products deployed in UK, the minimum safe distance between the equipment and humans is 24 cm.

Restrictions and requirements for authorization and use

- This equipment is for indoor use only.
- The XV2-Series products can only be configured to operate in unlicensed frequency bands that are subject to frequency planning within individual countries. Operators or end users must ensure that the equipment is installed and operated in accordance with UK regulations.
- Use only with the specified XV2-Series platform Power Supply Unit (PSU), UL listed power adapter or DC power source marked Limited Power Source (L.P.S.), rated 42 - 57Vdc, 0.25A (minimum), Gigabit Passive PoE injector, 802.3af/at, and Tma=50 degree C.

Simplified UKCA Declaration of Conformity

Hereby, the manufacturer Cambium Networks Ltd, declares that the radio equipment type XV2-22H is in compliance with UK Radio Equipment Regulations 2017 (SI 2017 No 1206, as amended). The full text of the UKCA declaration of conformity is available at the following internet address: http://www.cambiumnetworks.com/ukca_dofc.

Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 No 3113

Do not dispose of electronic and electric equipment or electronic and electric accessories with your household waste. Contact your local equipment supplier, representative or Cambium Networks Support Centre for information about the waste collection system in UK.

U zařizení řady XV2 instalovaných v EU je minimální bezpečná vzdálenost mezi zařízením a osobami 24 cm.

Intended use (European Union)

The enterprise Wi-Fi products from Cambium Networks are intended for delivering indoor wireless LAN data services. The XV2-22H is a dual-radio Wall Plate Access Point and device with an internal antenna. The 802.11ax standard is more efficient than previous generations, providing performance enhancements, network segmentation, and improved battery life.

Installation and operation

Installation and operation of this product are complex, therefore Cambium Networks recommends professional installation and management of the system to ensure that the operation complies with the regulations of the region where the product is installed. Follow the instructions in this leaflet. Further guidance on installation and operation is available in the product's user guide. See weblinks on the front page.

In the EU, the 2.4/5 GHz dual-band XV2-Series products operate in the following frequency bands up to the maximum power:

U zařizení řady XV2 instalovaných v EU je minimální bezpečná vzdálenost mezi zařízením a osobami 24 cm.

Les produits Wi-Fi pour professionnels de Cambium Networks sont destinés à la création de réseaux de données locaux sans fil intérieure. Le modèle XV2-22H utilise une conception à tri-radio et antennes internes. La norme 802.11ax offre un meilleur rendement que les normes des générations précédentes, elle apporte des améliorations de performances, une segmentation du réseau et une meilleure autonomie de la batterie.

U zařizení řady XV2 instalovaných v EU je minimální bezpečná vzdálenost mezi zařízením a osobami 24 cm.

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Restrictions et exigences pour l'autorisation d'utilisation

- Cet équipement est destiné à un usage exclusifement intérieur.
- Les produits de la série XV2 ne peuvent être configurés que pour fonctionner dans des bandes de fréquences sans licence qui ont fait l'objet d'une planification des fréquences dans chaque pays. Les opérateurs ou les utilisateurs finaux doivent s'assurer que l'équipement est installé et utilisé conformément aux réglementations applicables au pays d'exploitation.

Utiliser uniquement avec une alimentation LPS 42-57Vdc, 0,25A(min.) Gigabit Passive PoE injector, 802.3af at PSE.

Déclaration de conformité de l'UE simplifiée

Par les présentes, le fabricant, Cambium Networks Ltd, déclare que les équipements radio de type XV2-22H sont conformes à la Directive 2014/53/UE. Le texte complet de la déclaration de conformité de l'UE est disponible à l'adresse Internet suivante: http://www.cambiumnetworks.com/eu_dofc.

Directive Déchets d'Équipements Électriques et Électroniques (DEEE)

Merci de ne pas jeter l'équipement électronique et électrique ou les accessoires électroniques et électriques avec vos déchets ménagers. Dans certains pays ou régions, des systèmes de collecte ont été mis en place pour gérer les déchets d'équipements électriques et électroniques. Dans les pays de l'Union européenne, veuillez contacter votre représentant local fournisseur d'équipements ou votre Centre d'assistance Cambium Networks pour plus d'informations sur le système de collecte des déchets de votre pays.

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Verwendungsweck

Die WLAN-Produkte des Unternehmens Cambium Networks sind für den Einsatz in drahtlosen LAN-Netzwerken im Innenbereich für den Einsatz in drahtlosen LAN-Netzwerken im Innenbereich mit interner Antenne. Der Standard 802.11ax ist effizienter als frühere Generationen und bietet Leistungsverbesserungen, Netzwerksegmentierung und eine verbesserte Batterielebensdauer.

Installation & Betrieb

Die Installation und der Betrieb dieses Produkts sind komplex. Cambium Networks empfiehlt daher eine professionelle Installation und Verwaltung des Systems, um sicherzustellen, dass der Betrieb den regionalen Vorschriften am Installationsort des Produktes entspricht. Bitte beachten Sie die Hinweise in diesem Produktblatt. Weitere Informationen zur Installation und zum Betrieb finden Sie im Produkthandbuch, siehe Web-Links.

Der Installer muss über die erforderlichen Fähigkeiten, Kenntnisse und Erfahrungen verfügen, um die Installation durchführen zu können, und ist für Folgendes verantwortlich:

- Kenntnis der aktuell geltenden nationalen Vorschriften, einschließlich Vorschriften für Funk, elektrische Installationen und Überspannungsschutz.

• Installation gemäß den Anleitungen und Hinweisen von Cambium Networks.

• Bestätigung, dass die Einstellungen der Anlage den nationalen oder regionalen Bestimmungen entsprechen.

Bitte beachten Sie bei der Installation die folgenden wichtigen Hinweise. Dadurch wird die Anlage in Übereinstimmung mit den nationalen gesetzlichen Bestimmungen gebracht.

- Stellen Sie sicher, dass auf Geräten der XV2-Serie die neueste 6.x-Firmwareversion ausgeführt wird. Die Software ist auf der Website des Cambium Networks Support Centre erhältlich.

• Vergewissern Sie sich während der Einrichtung des Geräts, dass die richtige Regionaleinstellung eingestellt ist (für EU-Produkte ist der Regionaleinstellung werkseitig voreingestellt), und wählen Sie dann den richtigen Ländercode für das jeweilige Land aus, in dem das Produkt eingesetzt wird.

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Funzionamento nell'UE

Bande di frequenza, alimentazione massima di funzionamento, distanza di sicurezza

nell'UE, i prodotti della serie XV2-Series tri band a 2.4 GHz / 5 GHz operano nelle bande di frequenza fino alla potenza massima indicata di seguito:

Banda di frequenza operativa	Standard UE	Limite di potenza massima (EIRP)	Utilizzo consentito	Unità che supportano questa banda di frequenza
2401 - 2483 MHz	EN 300 328	100 mW / 20 dBm	Disponibile per uso generale in tutte i Paesi dell'UE	L'intera serie XV / XV2-Series
5150 - 5350 MHz	EN 301 893	200 mW / 23 dBm		L'intera serie XV / XV2-Series
5470 - 5725 MHz	EN 301 893	1 W / 30 dBm		L'intera serie XV / XV2-Series
5725 - 5875 MHz	EN 302 502	4 W / 36 dBm		L'intera serie XV / XV2-Series

Per i prodotti della serie XV2-Series utilizzati nell'UE, la distanza minima di sicurezza tra l'apparecchiatura e le persone è 24 cm.

Restrizioni e requisiti per l'autorizzazione all'uso

- Questa apparecchiatura è destinata esclusivamente all'uso esterno.
- I prodotti della serie XV2 possono essere configurati solo per funzionare in bande di frequenza senza licenza soggette a pianificazione della frequenza all'interno dei singoli paesi. Gli operatori o gli utenti finali devono garantire che l'apparecchiatura sia installata e utilizzata in conformità con le normative applicabili al paese di utilizzo.
- Utilizzare solo con alimentatore LPS 42-57Vdc, 0,25A(min.) Gigabit Passive PoE injector, 802.3af at PSE.

Dichiarazione di conformità UE semplificata

Per le presenti, il produttore Cambium Networks Ltd, dichiara che il tipo di apparecchiatura XV2-22H è conforme alla Direttiva 2014/53/UE. Il testo integrale della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: http://www.cambiumnetworks.com/eu_dofc.

Direttiva sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE)

Non smaltire le apparecchiature elettroniche ed elettriche o gli accessori elettronici ed elettrici insieme ai rifiuti domestici. In alcuni Paesi o regioni sono stati allestiti sistemi di raccolta per la gestione dei rifiuti di apparecchiature elettriche ed elettroniche. Nei Paesi dell'Unione Europea, per informazioni sul sistema di raccolta dei rifiuti nel proprio Paese si prega di contattare l'appresentante locale del fornitore delle apparecchiature o il Centro assistenza di Cambium Networks.

An installer must have sufficient skills, knowledge, and experience to perform the installation task, and is responsible for:

- Familiarizing with current applicable national regulations including radio regulations, electrical installation regulations, and surge protection regulations.
- Installing in accordance with Cambium Networks instructions.
- Confirming that the equipment settings are compliant with national or regional regulations.

Observe the following important instructions during installation. This will set the equipment in compliance with national regulatory regulations:

- Ensure that the XV2-Series equipment is running on the latest 6.x firmware version. The software is available on the Cambium Networks Support Centre website.
- While setting up the equipment, verify that the correct region code is set (the region code is pre-set in the factory for EU products) and then select the EU country code where the product is being deployed.

Changes or modifications, which are not expressly approved by Cambium Networks, could void the user's authority to operate the equipment and will void the manufacturer's warranty.

Product safety information

Observe the following safety rules:

- Always power down and unplug the equipment before servicing. The power supply is the primary disconnect device. There must be no serviceable parts inside this equipment.
- Always turn off the power to the XV2-Series device before maintenance activities in front of the antenna.
- Observe the minimum safe distance limit for XV2-Series products provided in next section.
- Ensure that the equipment is installed in a position for avoiding any radiation hazard.
- It is the user's responsibility to install the equipment in accordance with national regulations. It is recommended that installation must be contracted to a professional installer.
- Always use the specified XV2-Series platform Power Supply Unit (PSU), UL listed power adapter or DC power source marked Limited Power Source (L.P.S.), rated 42 - 57Vdc, 0.25A (minimum), Gigabit Passive PoE injector, 802.3af/at, and Tma=50 degree C to power the equipment. Failure to use the Cambium Networks supplied PSU with ratings that are specified on the equipment label will result in improper operation, damage to equipment and cause a safety or fire hazard.

- Always install the cables recommended by Cambium Networks and consider the following instructions:
- Use a power cord with an integral safety ground wire intended for connection to a grounded safety outlet.
- Protective bonding must be installed in accordance with local national wiring rules and regulations.
- The indoor unit enclosure may be hot and do not touch it during the operation.
- Contact your local supplier to get more information about the power supply or an adapter.
- If a Class I power socket or switch is used to provide a power, ensure that the power cord is firmly plugged into the socket and confirm the main on earth connection.

Operation in the EU

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