AIWAXIS AI-Powered Enterprise WLAN

AP-623E Wi-Fi 6E Wireless Access Point

Quick Start Guide

https://www.deltaww.com/en-us/landingpage/AIWAXIS

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Chapter 1 About this Guide

This Quick Start Guide describes the features supported by Wi-Fi 6E Wireless Access Point (AP-623E), and provides detailed instructions for setting up and configuring Enterprise Wi-Fi AP.

Intended audience

This guide is intended for use by the system designer, system installer, and system administrator.

Purpose

Delta’s Wi-Fi 6E Wireless AP documents are intended to instruct and assist personnel in the operation, installation, and maintenance of Delta’s equipment and ancillary devices. It is recommended that all personnel engaged in such activities be properly trained. Delta 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.

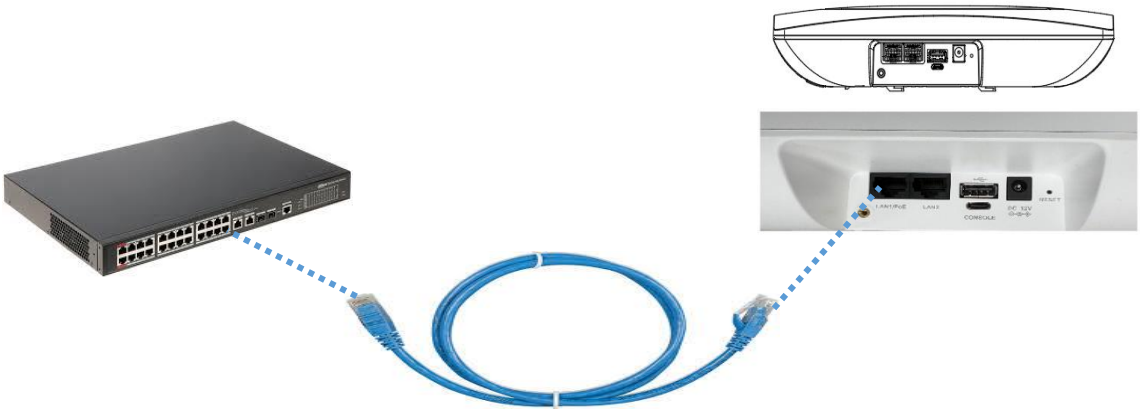
Note

We continuously enhance our product documentation based on customer feedback This equipment conforms to the requirements of the FCC and CE.

Powering up the device

You can power the access point (AP) on by plugging one end of the Ethernet cable into the PoE switch or injector and the other end into the Ethernet/PoE port on the AP. Ensure the PoE source you are using is turned on. As an alternative to PoE, you can insert a compatible power adaptor plug into an AC power outlet and the other end into the power input port on the AP.

Figure 1 represents the Enterprise Wi-Fi AP LAN 1 port connecting to a switch (PoE PSE Port).



Using the Access Point with Power Adapter

AP-623E is intended to be supplied by approved external power source (UL listed/ IEC 60950-1/IEC 62368-1) whose output complies with ES1/SELV, PS2/LPS, output rating 12V DC, 2.5A minimum (for DC port) or 42.5-57V DC, 0.6A minimum (for PoE port), at an ambient temperature of 45°C, and at maximum altitude of 5000m. For any assistance, please contact your Delta representative.

The equipment is to be connected to power is PoE networks which would be not routing to outside plants.

If using a class I adapter, the power cord shall be connected to a socket outlet with earthling connection.

Accessing the device

Once the device is powered up ensure the device is up and running before you try to access it based on LED status. The PWR/SYS LED on the Enterprise Wi-Fi AP device should turn Green which indicates that the device is ready for access.

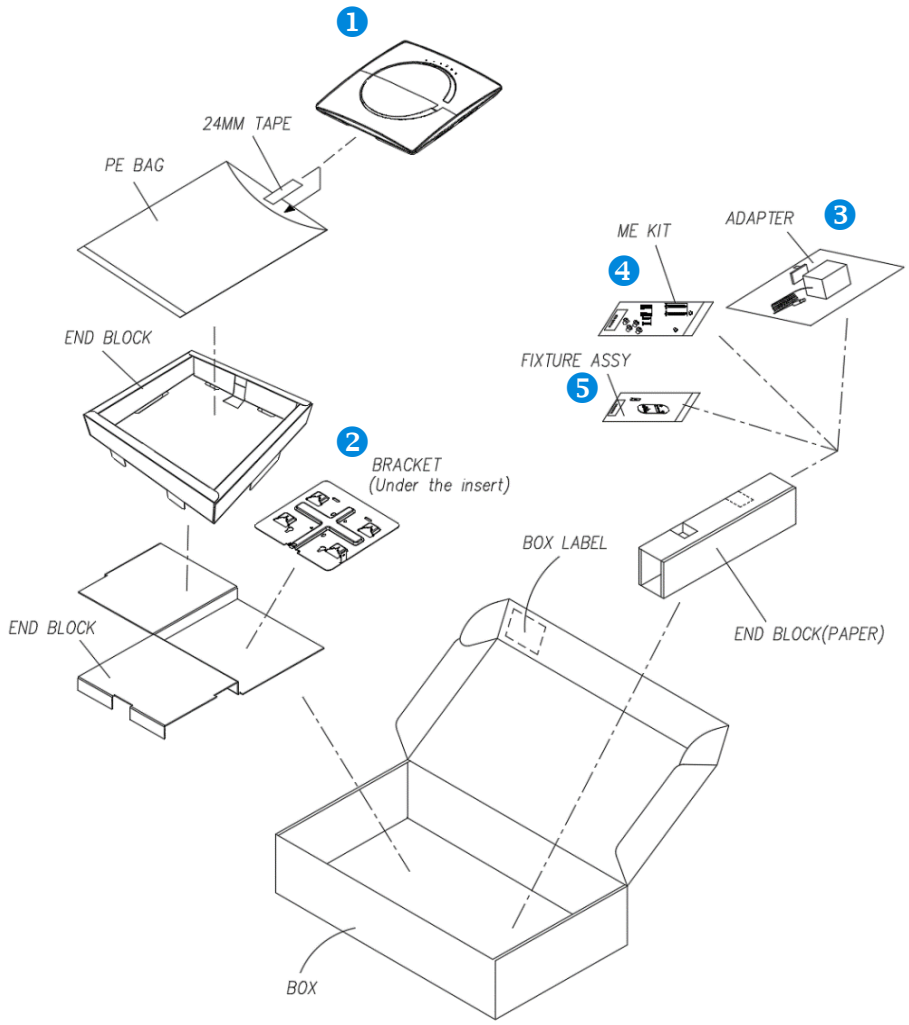
Setting up a new network

If setting up a new network the device will begin initial boot up. It will take a few of minutes to have the device boot up ready. The LED will indicate once the device is ready to go accessing network

Add to an existing wireless network

Allow the access point to boot up and automatically update its firmware and configuration to match the existing network. This can take ten minutes or more. Once the LED of PWR/SYS and LAN are both solid green; the setup is complete and the AP has joined the network.

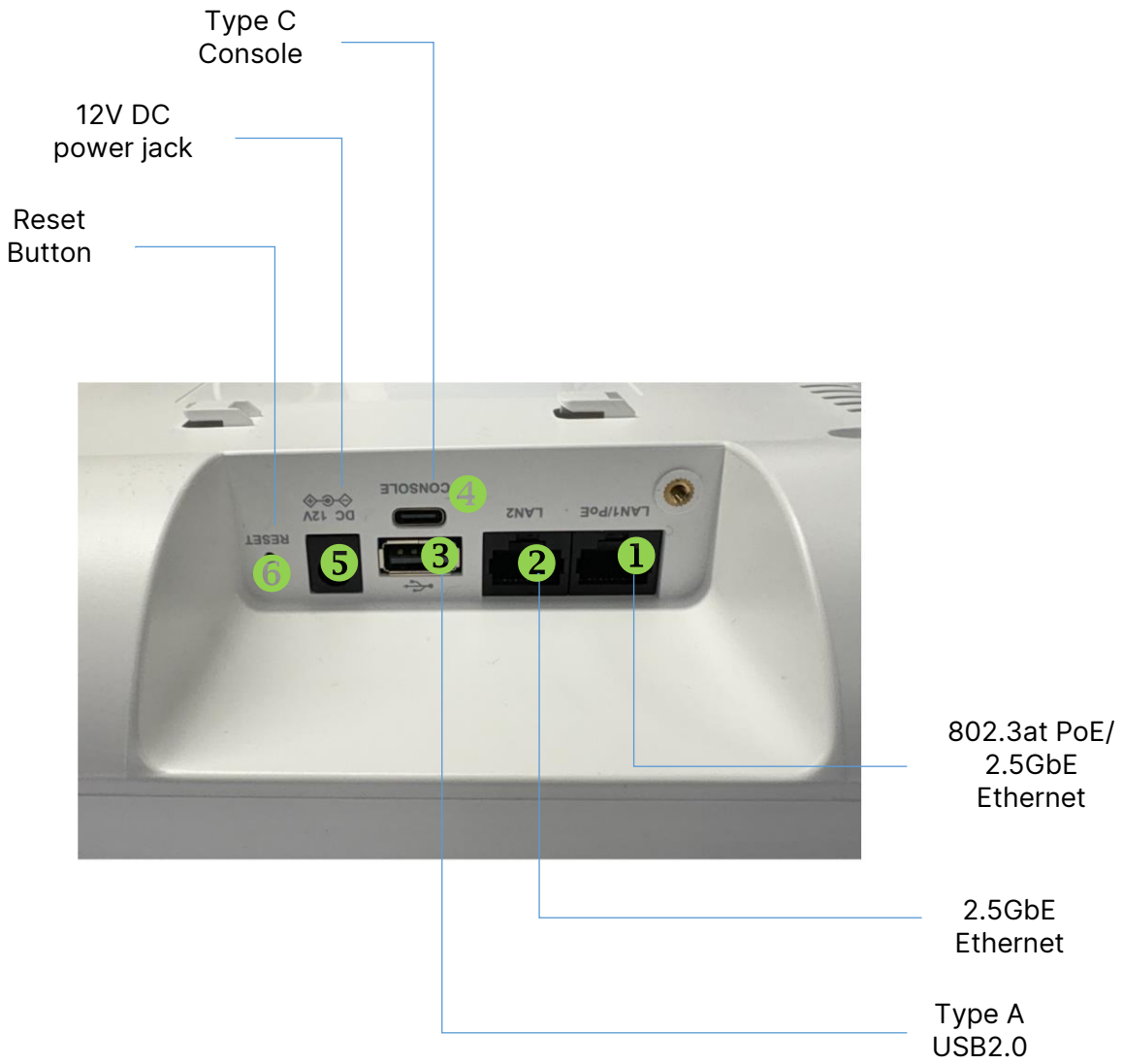
Chapter 2 Package Contents



	Items	Description	Quantity
❶	AP-623E	Wi-Fi 6E Wireless Access Point	1 pcs
❷	Bracket	Bracket for installation	1 pcs
❸	Power Adapter	12V DC power supply	1 pcs
❹	Mechanical kit	Screw kit for installation	1 set
❺	Fixture	Suspended ceiling rail clip	1 set

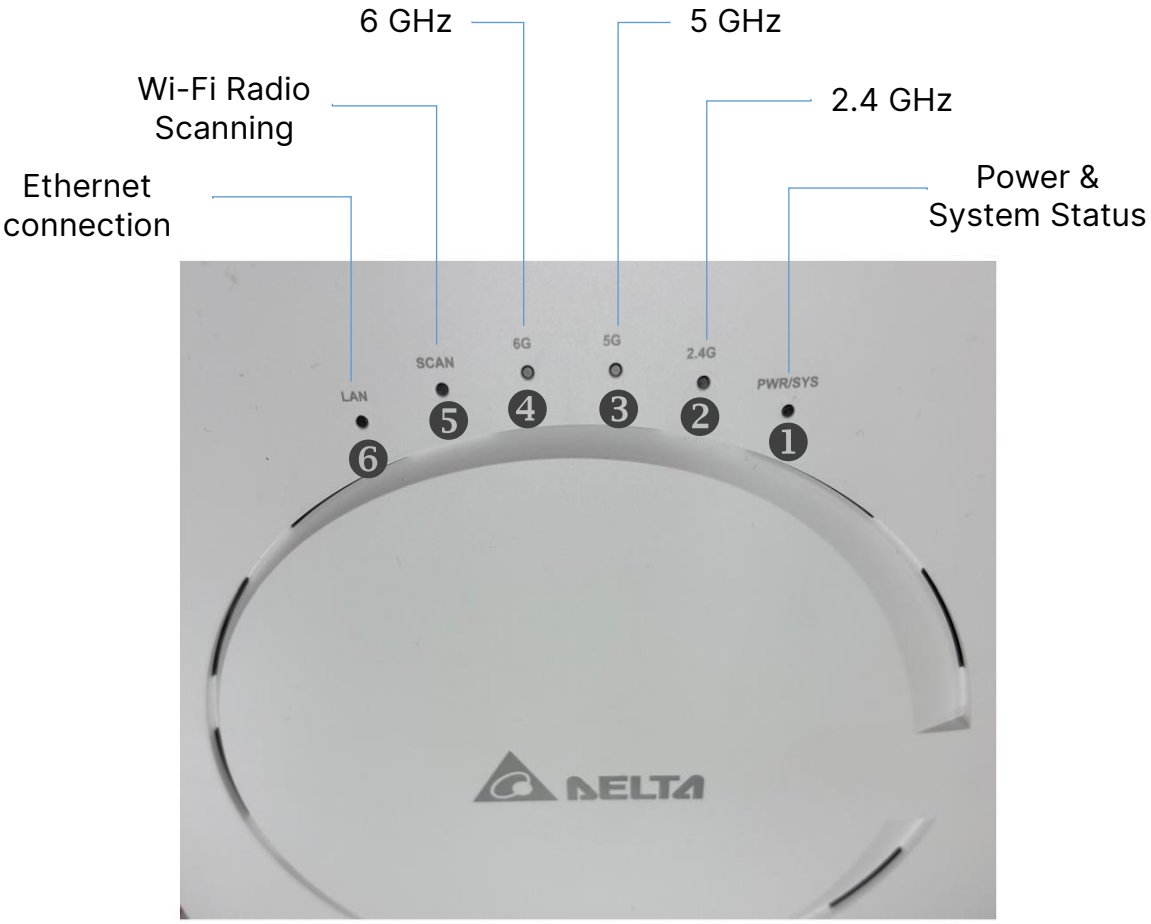
Chapter 3 Access Point Overview

Rear Panel



	Interface	Description
❶	LAN 1/ PoE	IEEE802.3at PoE+, 10/100baseT, 1GbE/2.5GbE ethernet
❷	LAN 2	10/100baseT, 1GbE/2.5GbE ethernet
❸	USB2.0 Type A	USB2.0 Type A USB, output rating 5Vdc/0.4A
❹	Console Type C	Type C USB for console
❺	Power jack	For 12V DC power adapter
❻	Reset	Reset button for factor default

LED Indicator

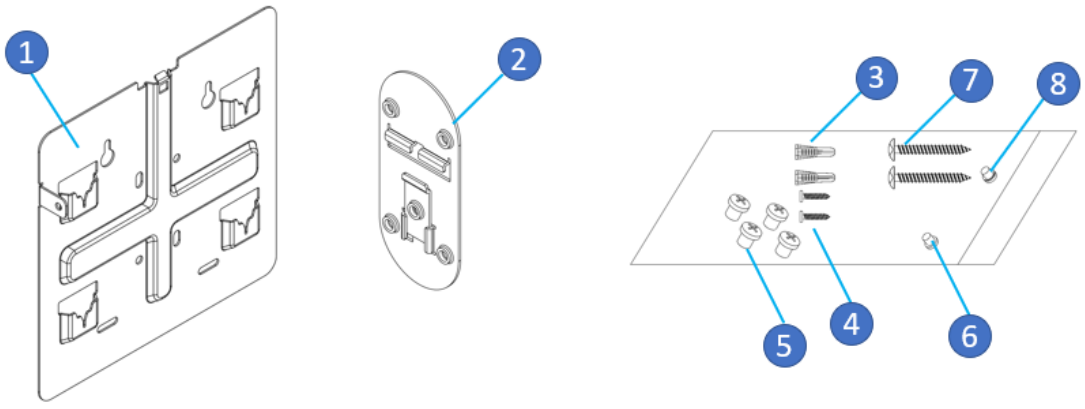


	LED	Color	Definition
❶	PWR/ SYS	ON	Device is ready
		Blink	SW is upgrading
		Blink	Device is booting, not ready yet
		ON	System error condition
❷	2.4 GHz	ON	2.4 GHz radio enabled in access mode
		Blink	2.4 GHz radio enabled with traffic forwarding
❸	5 GHz	ON	5 GHz radio enabled in access mode
		Blink	5 GHz radio enabled with traffic forwarding
❹	6 GHz	ON	6 GHz radio enabled in access mode
		Blink	6 GHz radio enabled with traffic forwarding
❺	SCAN	ON	2.4 GHz / 5 GHz / 6 GHz enabled, in scanning mode
❻	LAN	ON	Lan 1 / Lan 2 2.5GbE Ethernet port link up
		Blink	Lan 1/ Lan 2 Ethernet data is forwarding

Chapter 4 Installation of the Access Point

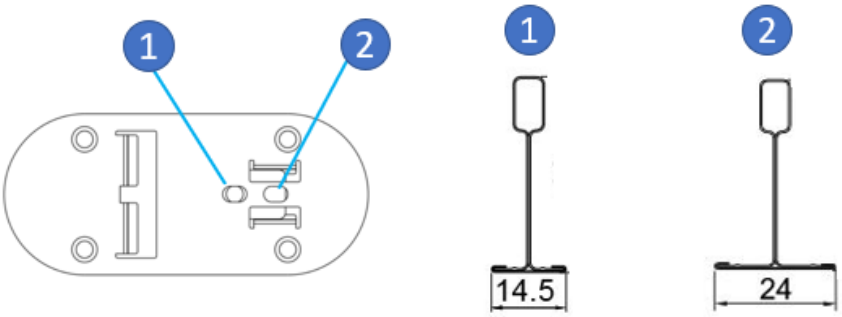
AP-623E supports two installation styles. The wall /ceiling mount style is used by attaching a bracket and installing it.

Mount Kit Overview



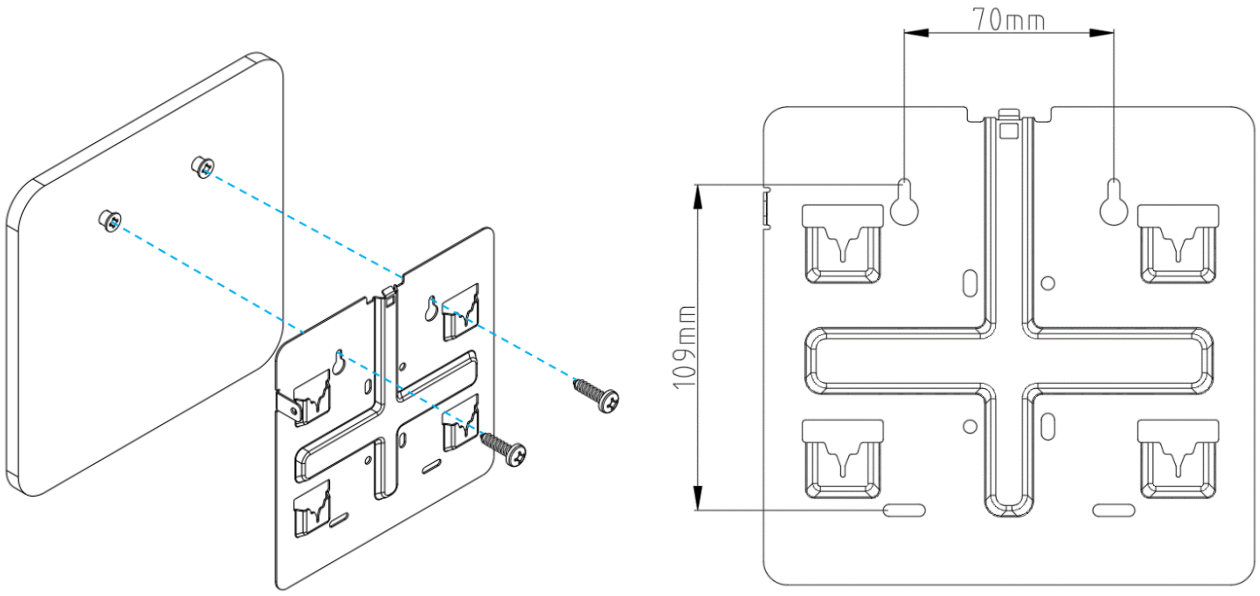
Item	Description
❶	Wall bracket
❷	Suspended ceiling rail clip
❸	Anchors 2pcs
❹	Screw T φ3.5 (M3.5X16mm) (for wall mount)
❺	Screw M4 (M4X6mm) (for ceiling rail clip to fix on wall plate)
❻	Screw #6-32 (M3.5X4mm) (for ceiling rail clip)
❼	Screw T φ4 (M4X31.8mm) (for plank wall mount)
❽	Screw M3 (M3X6mm) (for AP fix on plate)

Supported Ceiling Rail Size

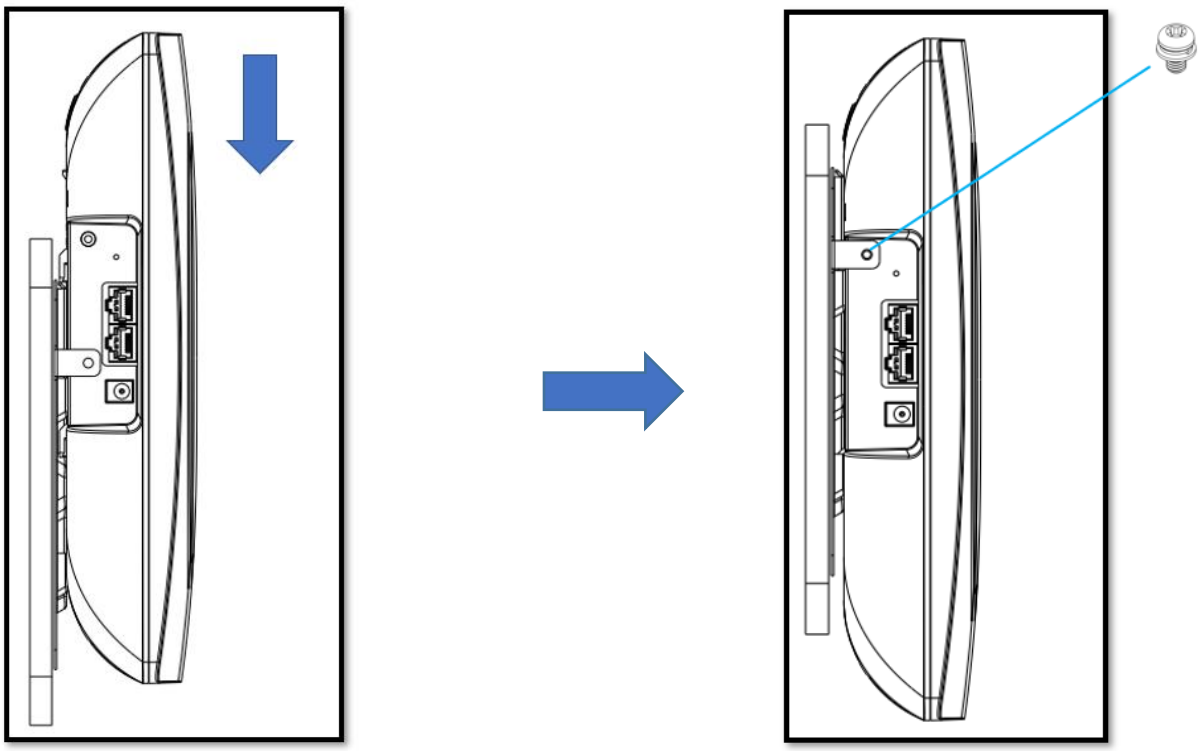


Mounting the AP to Wall

a) Securing Wall bracket on a Wall

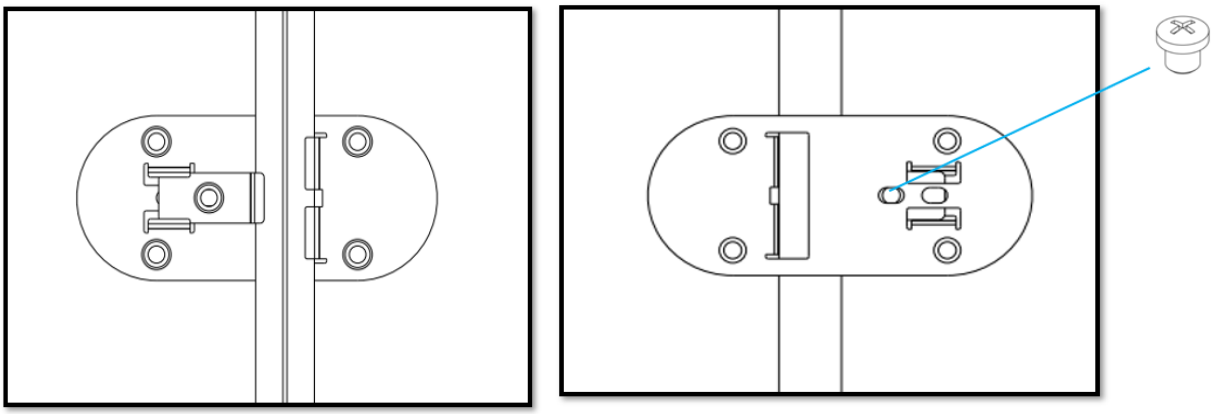


b). Sliding AP onto Wall Bracket and using the Screw M3 (M3X6mm) to fixed.

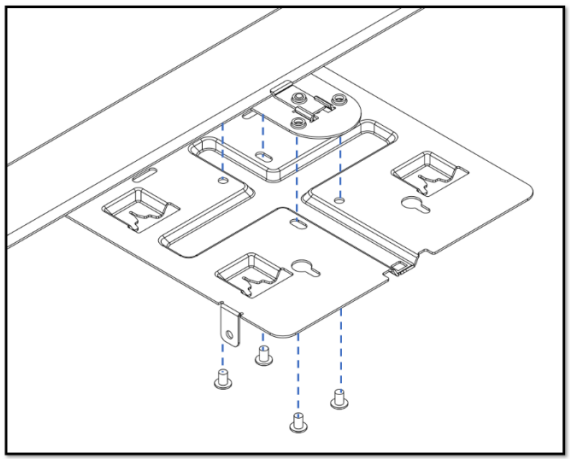


Mounting the AP to a Ceiling Rail

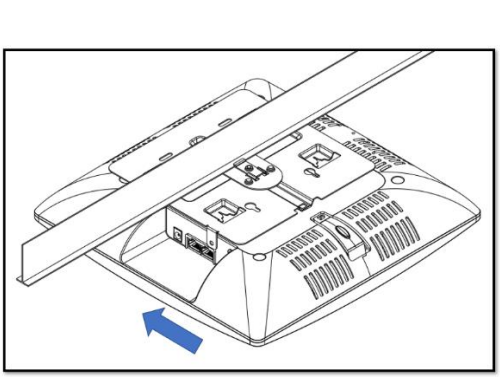
a) Mounting Suspended Ceiling Rail Clip on Rail and using the Screw #6-32 (M3.5X4mm) to fixed.

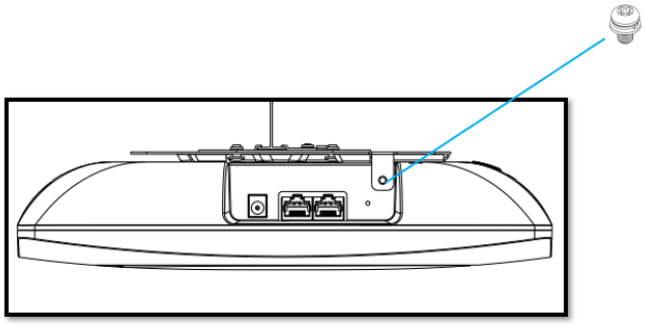


b) Securing Wall bracket on Ceiling Rail Clip and using the Screw M4 (M4X6mm) to fixed.



c) Sliding AP onto Bracket and using the Screw M3 (M3X6mm) to fixed.





Chapter 5 Product Compliance

FCC Statement

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

USA Responsible Party information please refer to:

https://filecenter.deltaww.com/products/Download/13/1308/Certificate/Certificate_FCC_AIWAXIS-AP-623E.pdf

FCC 5.925-7.125 GHz Caution Statement

Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

Federal Communications 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 or more 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 regulations restrict the operation of this device to indoor use only. Operation 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.

RF exposure statements

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.

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 of 20 cm between the radiator & your body.

In accordance with Article 10.8(a) and 10.8(b) of the RED and RER 2017 (SI2017/1206) the following table provides information on the frequency bands used and the maximum RF transmit power of the product for sale in the EU.

The WiFi operating in the band 5150-5350 MHz shall be restricted to indoor use for countries listed in the table below:

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

CE RED RF Output table (Directive 2014/53/EU)

Function	Frequency	Maximum Output Power EIRP (dBm)
BT	2.4-2.4835 GHz	9.92
WiFi	2.4-2.4835 GHz	19.96
	5.15-5.35 GHz	22.95
	5.47-5.725 GHz	29.96
	5.725-5.875 GHz	13.95
	5.925-6.425 GHz	22.92

Receiver category 1

Low Power Indoor (LPI) Wi-Fi 5.945-6.425 GHz devices:

The device is restricted to indoor use only when operating in the 5945 to 6425 MHz frequency range in Austria (AT), Belgium (BE), Bulgaria (BG), Cyprus (CY), Czech Republic (CZ), Estonia (EE), France (FR), Germany (DE), Iceland (IS), Ireland (IE), Latvia (LV), Luxembourg (LU), Netherlands (NL), Norway (NO), Romania (RO), Slovakia (SK), Slovenia (SI), Spain (ES), Switzerland (CH).

Hereby declares that this product complies with the EU Directive 2014/53/EU. The full text of the EU declaration of conformity is available at:https://filecenter.deltaww.com/products/Download/13/1308/Certificate/Certificate_CE_AIWAXIS-AP-623E.pdf

UK Statement

The WiFi operating in the band 5150-5350 MHz shall be restricted to indoor use for the country listed below:

UK

UKCA RF Output table (The Radio Equipment Regulations 2017)

Function	Frequency	Maximum Output Power EIRP (dBm)
BT	2.4-2.4835 GHz	9.92
WiFi	2.4-2.4835 GHz	19.96
	5.15-5.35 GHz	22.95
	5.47-5.725 GHz	29.96
	5.725-5.875 GHz	13.95
	5.925-6.425 GHz	22.92

Receiver category 1

Low Power Indoor (LPI) Wi-Fi 5.945-6.425 GHz devices:

The device is restricted to indoor use only when operating in the 5925 to 6425 MHz frequency range in the UK.

Hereby declares that this product complies with the RER 2017 (SI 2017/1206). The full text of the UK declaration of conformity is available at:https://filecenter.deltaww.com/products/Download/13/1308/Certificate/Certificate_CE_AIWAXIS-AP-623E.pdf

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