NORTHSTAR TELECOM

io by HFCL

Quick Start Guide

Access Point

ion12xi_h/ion12xi_h2
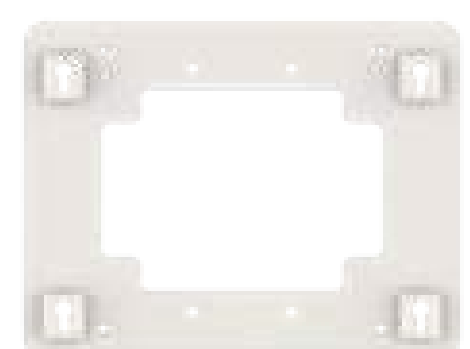
ANYWHERE EVERYWHERE

Introduction

Thank you for purchasing our ion12xi_h/ion12xi_h2, a cutting-edge cloud-managed Access Point. This device is Wi-Fi 6 certified, featuring a 8x8:8 MU-MIMO setup that sets new standards for wireless performance and efficiency.

Packaging Content

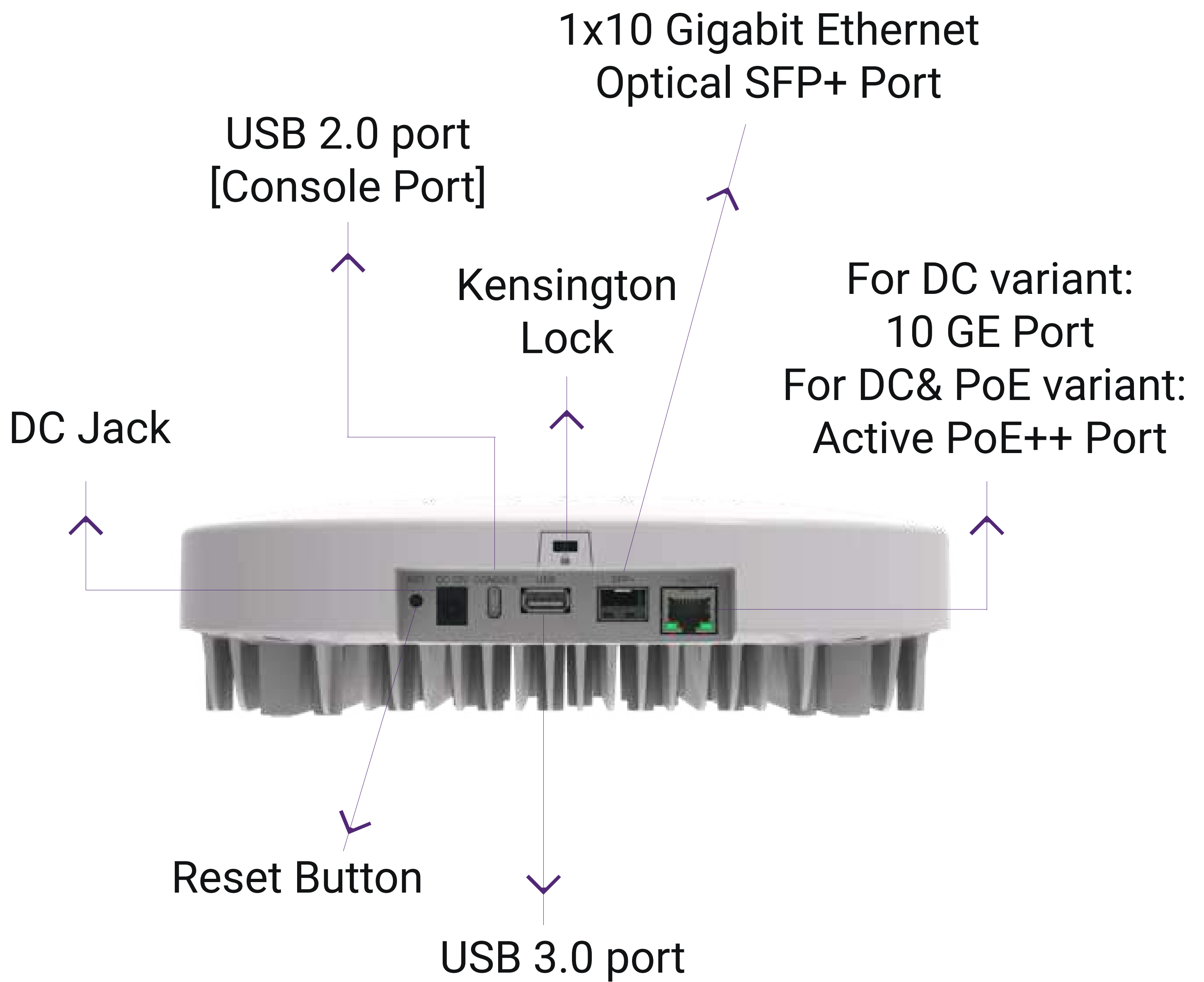ion12xi_h/ ion12xi_h2
Access Point
(Qty:1)

Mounting Kit
Mounting Screws SS PPH 6x1-1/2 (4),
Plastic Wall Anchors (4),
Mounting Screws SS PPH M4x50 and
M4 Hex Nuts (4 each),
Mounting Plate (1)

Product Specifications

Peak Data Rate (aggregate)	5.95 Gbps combined (8x8 MU-MIMO; 80 MHz) 5.95 Gbps combined (4x4 MU-MIMO; 160 MHz)
Wi-Fi Standard Support	IEEE 802.11 a/b/g/n/ac/ax
Interface	1x10 Gigabit Ethernet (10GbE) RJ45 Port
	1x10 Gigabit Ethernet (10GbE) Optical SFP+ Port
	DC jack
	USB 3.0 port (Type A)
	USB 2.0 port (Type C) [Console Port]
Radio Mode	Upto 8x8 for 5 GHz and 4x4 for 2.4 GHz multiple input, multiple output MU-MIMO
Mesh Support	Self-creating, Self-healing EasyMesh
Maximum number of SSID	32 SSIDs combined (16 per radio)
Maximum user support	1024
Power supply	**ion12xi_h** : +12V 4A DC Power adaptor **ion12xi_h2** : PoE adaptor (48V active PoE++) or +12V 4A DC Power adaptor
Power consumption (Max)	<35 W (approx)
Max Transmit Power	28 dBm on 2.4 GHz; 28 dBm on 5 GHz
Antenna Type	Integrated Antenna
Antenna Gain	6 dBi for 2.4 GHz and 5 GHz
Management	Standalone (via GUI) or through on premise based solution or cloud-based
Enclosure Dimensions	260 x 260 x 72 mm or 10.24 x 10.24 x 2.83 inches
Weight	2.6 Kg
Operating Temperature	0°C to 45°C
Certifications	FCC Class B, CE, RoHS 3.0, UL 2043 Plenum, Wi-Fi certified - Wi-Fi 6, WPA3, EasyMesh, Agile Multiband & Passpoint 3.0
Variants	**ion12xi_h**: DC Powering **ion12xi_h2**: DC or Active PoE++ Powering

CRITICAL: The ion12xi_h2 should not be powered up with a passive PoE device. It will result in an electrical fault in the unit, making it unusable.

Product Overview

1x10 Gigabit Ethernet
Optical SFP+ Port

USB 2.0 port
[Console Port]

Kensington
Lock

For DC variant:
10 GE Port
For DC& PoE variant:
Active PoE++ Port

DC Jack

Reset Button

USB 3.0 port

Mounting of Access Point on Solid Ceiling or Wall

1. Place the mounting plate which came with the package on a wall or ceiling and mark holes with a marker at the location mark A as shown in the figure below. Drill holes in the marked points with an M4 bit and insert the plastic wall anchors.

2. Utilize the provided mounting screws SS PPH 6x1-1/2 to affix the mounting bracket securely onto the wall.

Ensure that the mounting bracket is firmly installed before mounting the Access Point on the wall or ceiling.

Wall or Ceiling   Drill holes mark A   Plastic wall plug   Mounting Plate   Screws
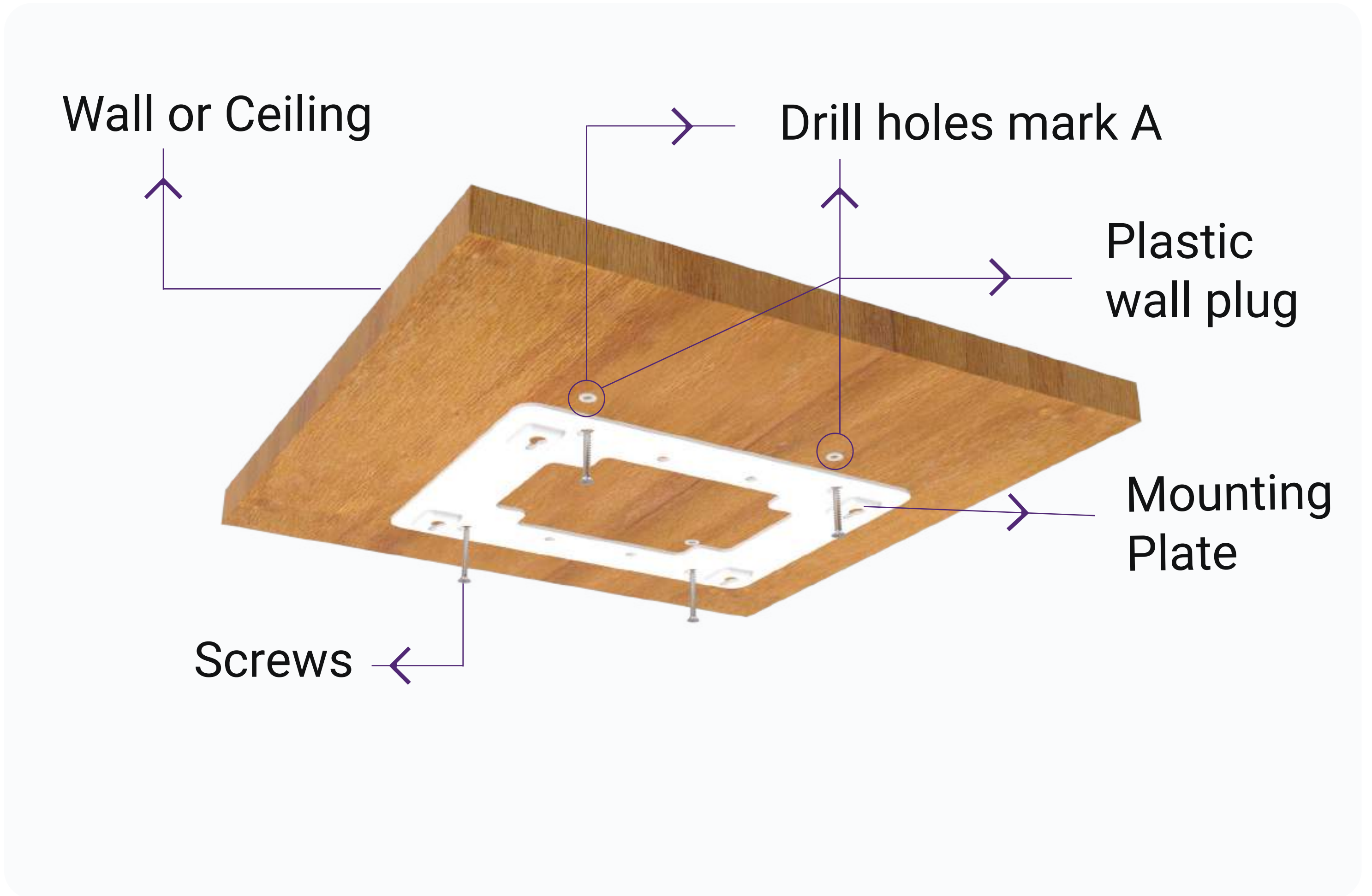
3. Pass the M4x50 screws through the M4 Hex nuts provided. Then, tighten these screws in the mounting holes provided on Access Point.

4. Align and slide the mounting screws on the Access Point with the keyholes on the mounting plate, ensuring a secure and hinged connection.

5. Securely tighten these nuts by rotating them in an anti-clockwise direction while maintaining a firm grip on the device to prevent it from falling.
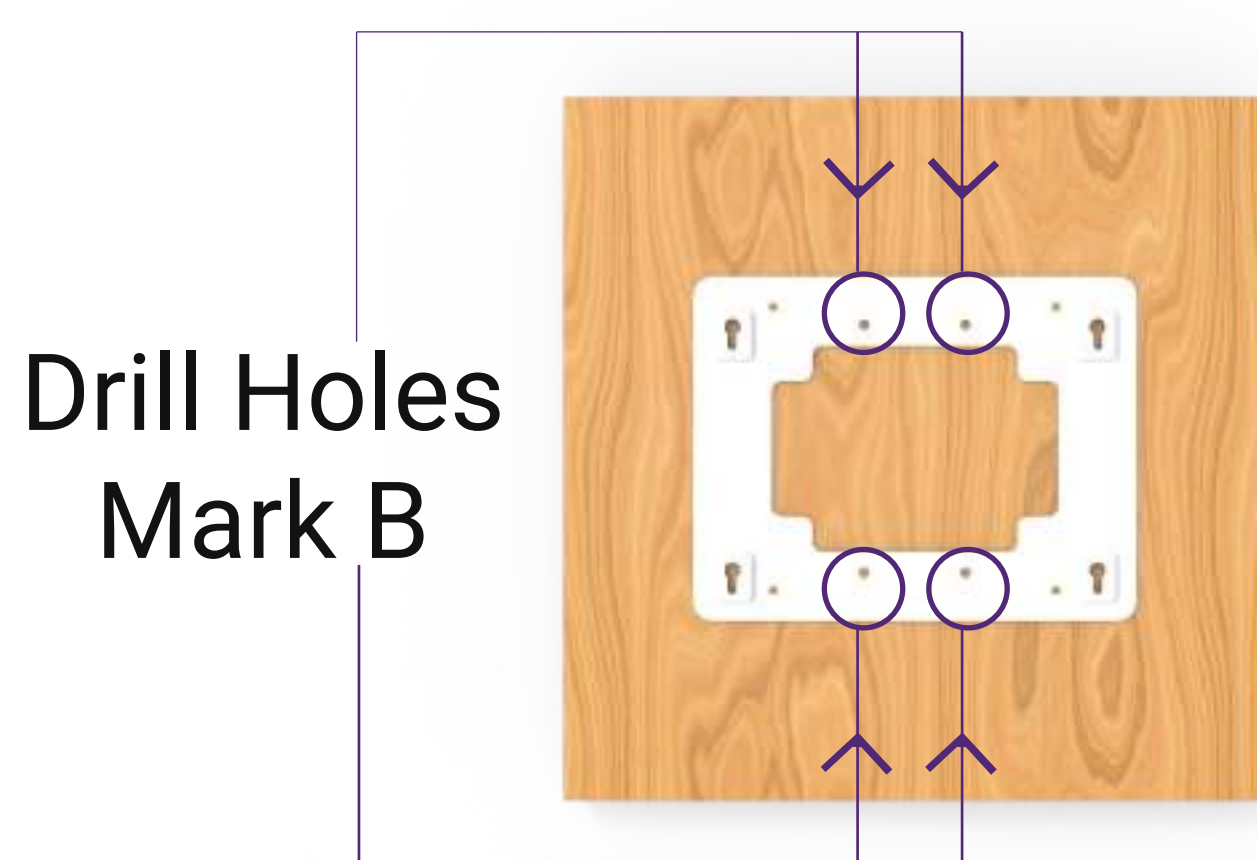
Mounting of Access Point on False Ceiling

Additional Mounting Kit for False Ceiling
M4x30 Hex head screw with M4 nuts
(4 each), Back Ceiling Plate (1)

Steps for mounting on false ceiling

1. Place the mounting plate on the false ceiling and mark holes with a marker at location mark B as shown in the figure below. Drill holes in the marked points.

Drill Holes
Mark B

2. Place the back ceiling plate on the opposite side of the false ceiling and align with the drilled holes.


Drill Holes
Mark B
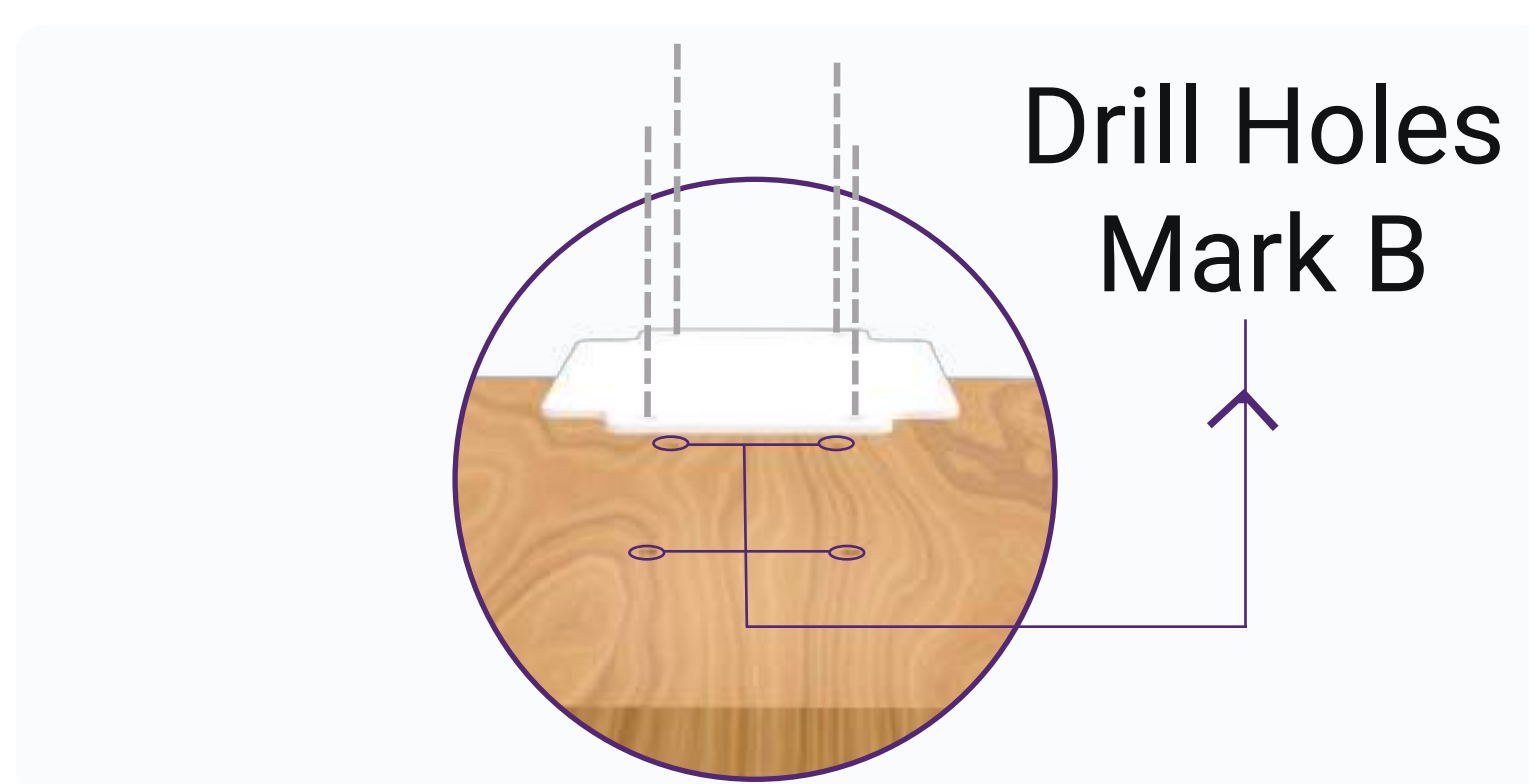
3. Pass M4x30 Hex Head Screws through the mounting plate and back ceiling plate.

Note: 1. This mounting kit is sold separately. Please contact your sales representative for more details.

2. Given mounting screws are for Ceiling thickness 15-20 mm only. In case of thicker ceiling, Please contact your sales representative for more details.

3. DO NOT INSTALL on fragile ceilings such as suspended acoustic board, plasterboard, fiberboard, or drop ceiling to ensure safety.
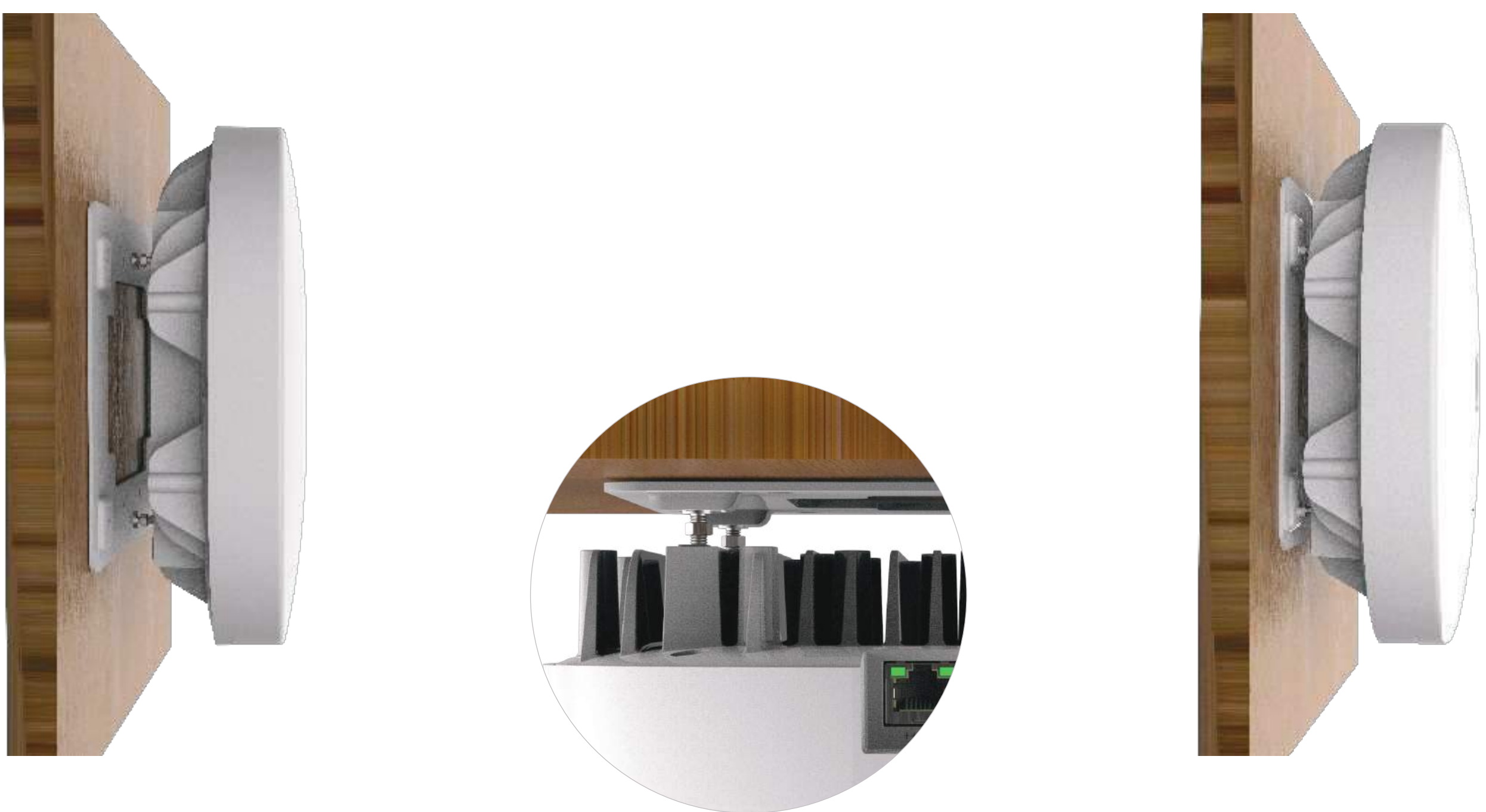
4. Tighten the provided M4 Hex Nuts from the opposite side of the false ceiling as shown in the image.

5. Pass the screws through Hex nuts provided. Then, tighten these screws in the mounting holes provided on the Access Point.
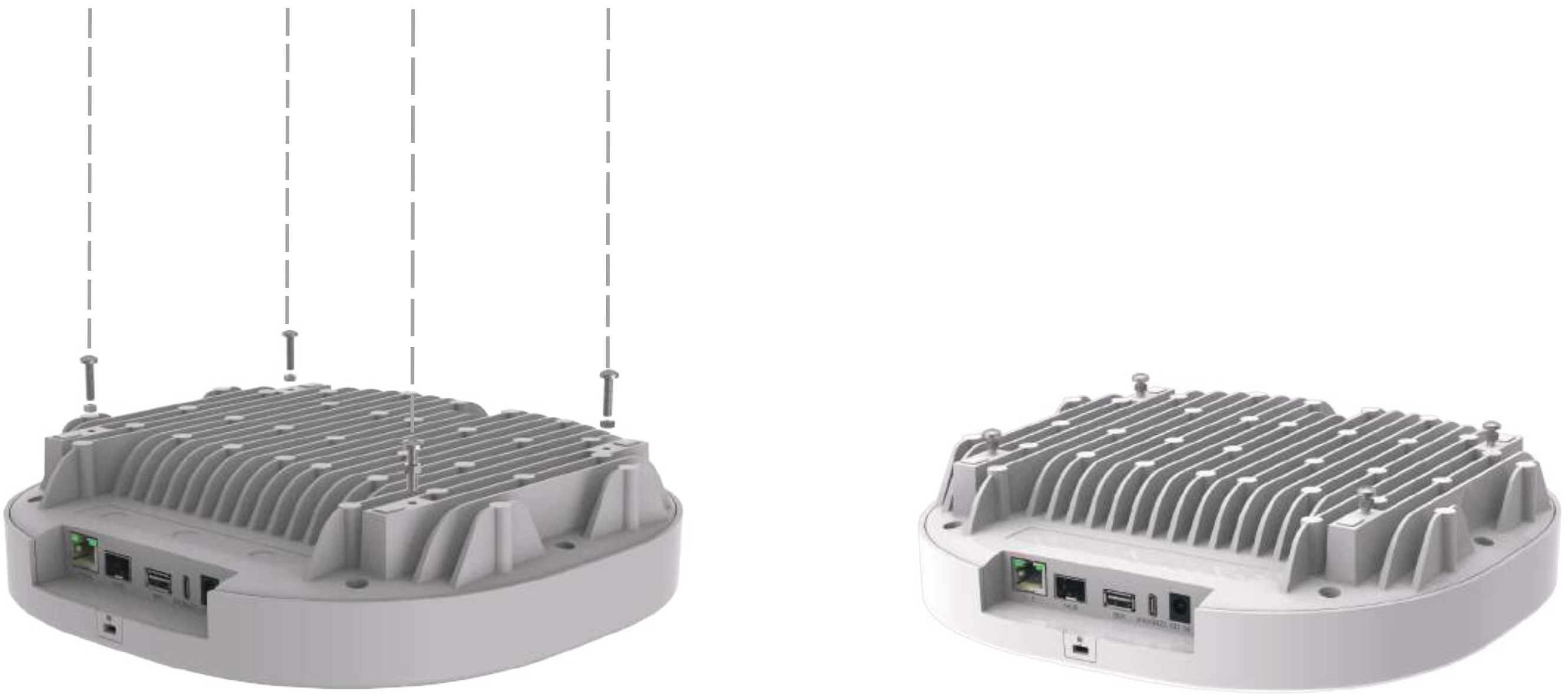
6. Align and slide the mounting screws on the Access Point with the keyholes on the mounting plate, ensuring a secure and hinged connection.
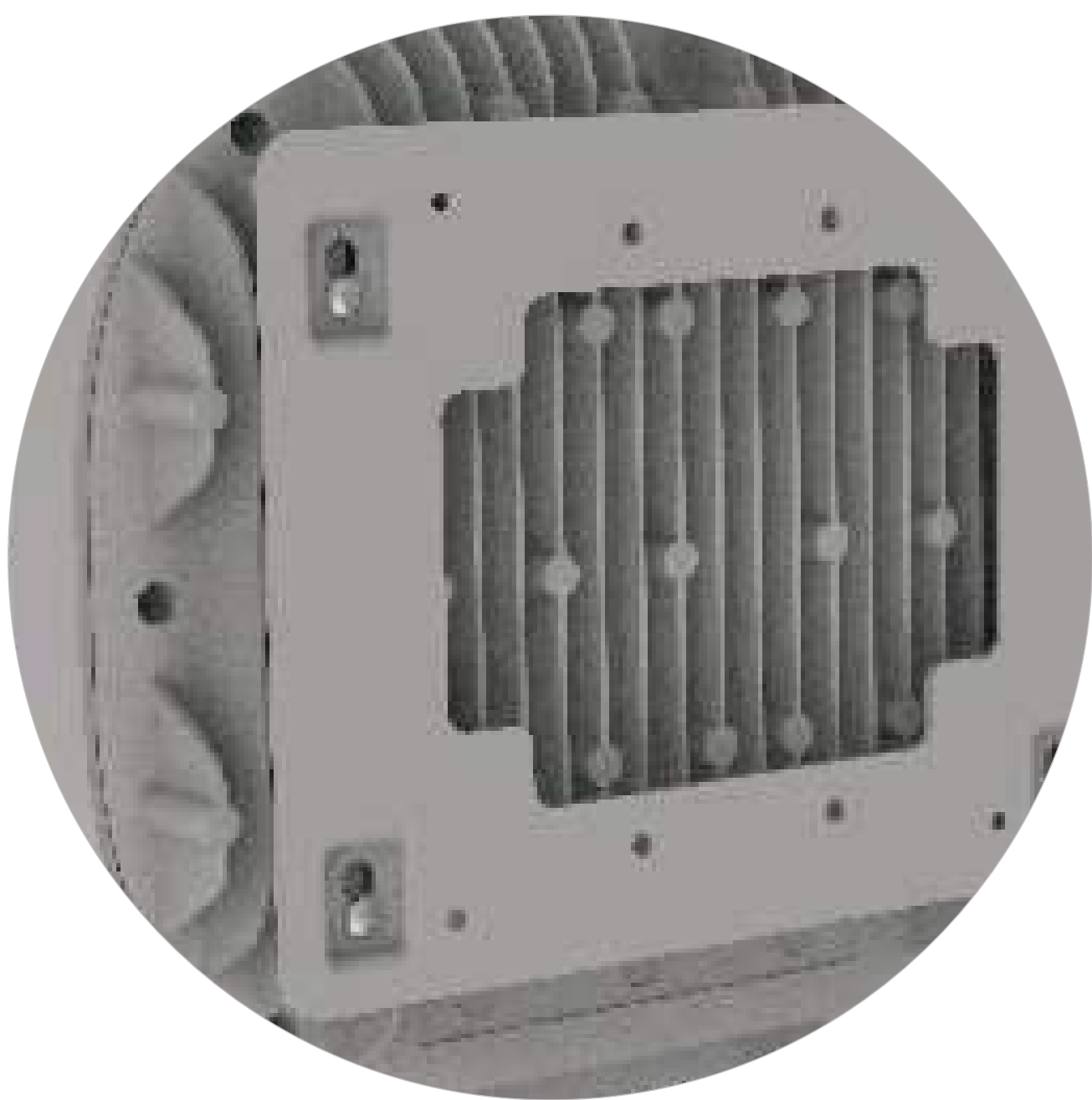

7. Securely tighten these nuts while maintaining a firm grip on the device to prevent it from falling.
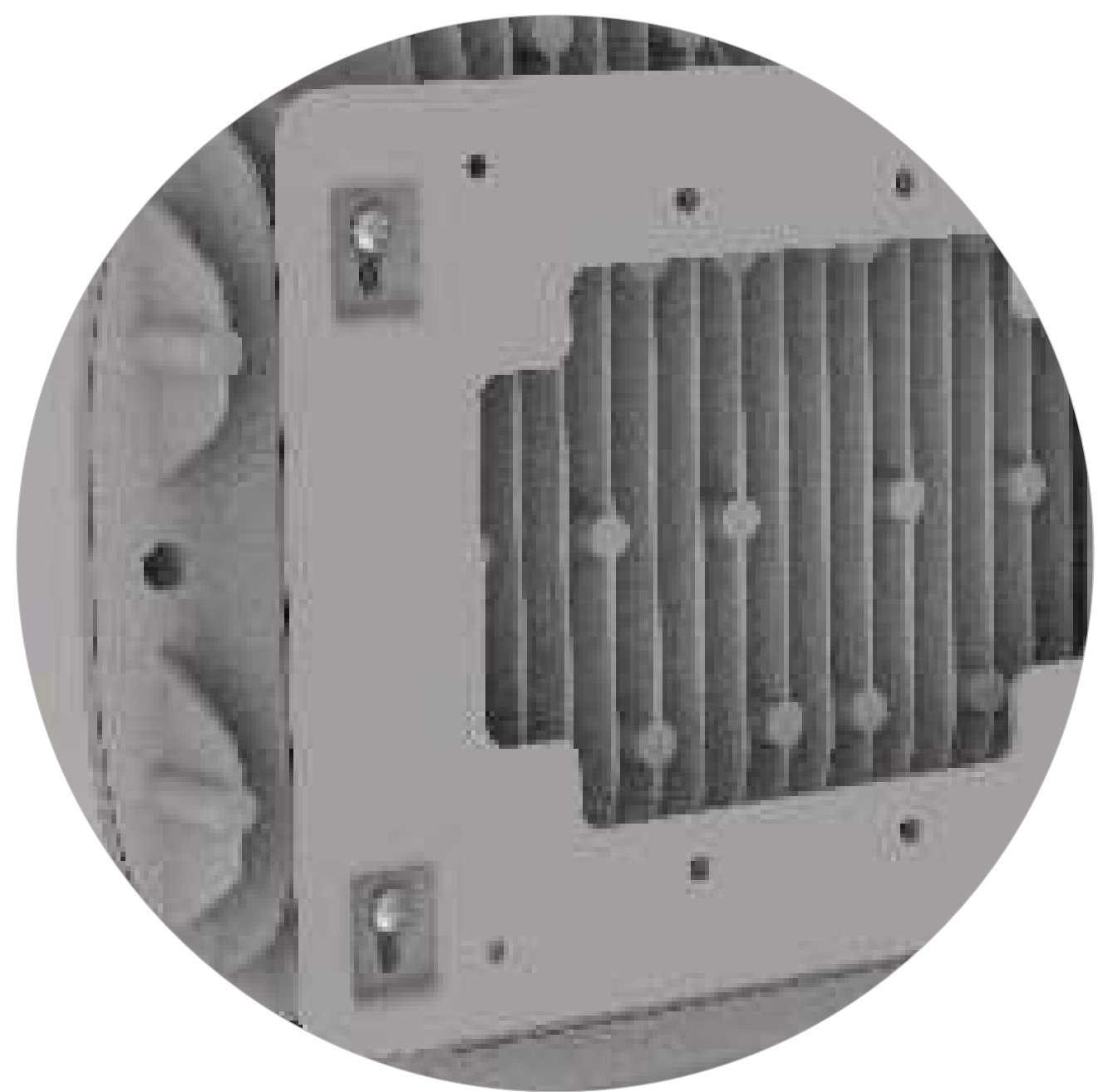
Unmounting of Access Point

1. Loosen the nuts and keep a firm grip on the device to prevent it from falling.

2. Slide the screws attached to the Access Point out of the keyholes of the mounting plate to disengage it from the slots.
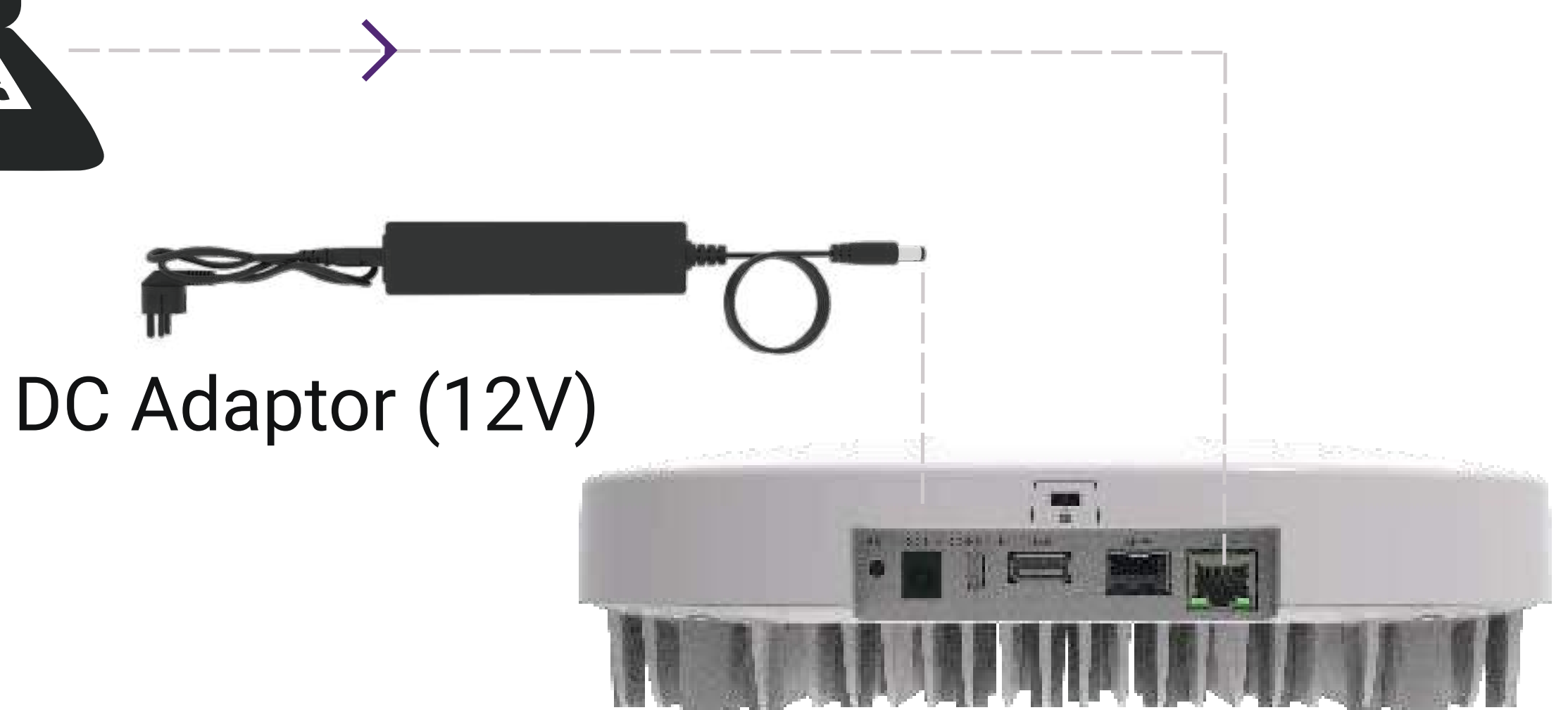

Locked Position

Unlocked Position

Getting the Access Point Online

ion12xi_h Access Point can be powered up using DC adaptor (12V) only.

Laptop/ Computer

DC Adaptor (12V)

Step 1: Power up

1. In order to power on the device, connect the DC Adaptor* to the Access Point.

Step 2: Connect to the network

Section 1: Standalone AP

1. Connect an Ethernet cable to the computer.

2. Connect the other end of the Ethernet cable to the LAN port on the Access Point

3. Configure the computer with a same domain static IP 192.168.1.X and a subnet mask of 255.255.255.0 (X is from 2 to 255)

4. Open the web browser and enter the Access Point static IP address in the address bar: 192.168.1.1

Note: *DC Power Adaptor availability varies by region. Please contact your sales representative for more details.

5. A login screen will appear.

6. Enter the default login credential details:
   User- root, Password- hfcl!@ion
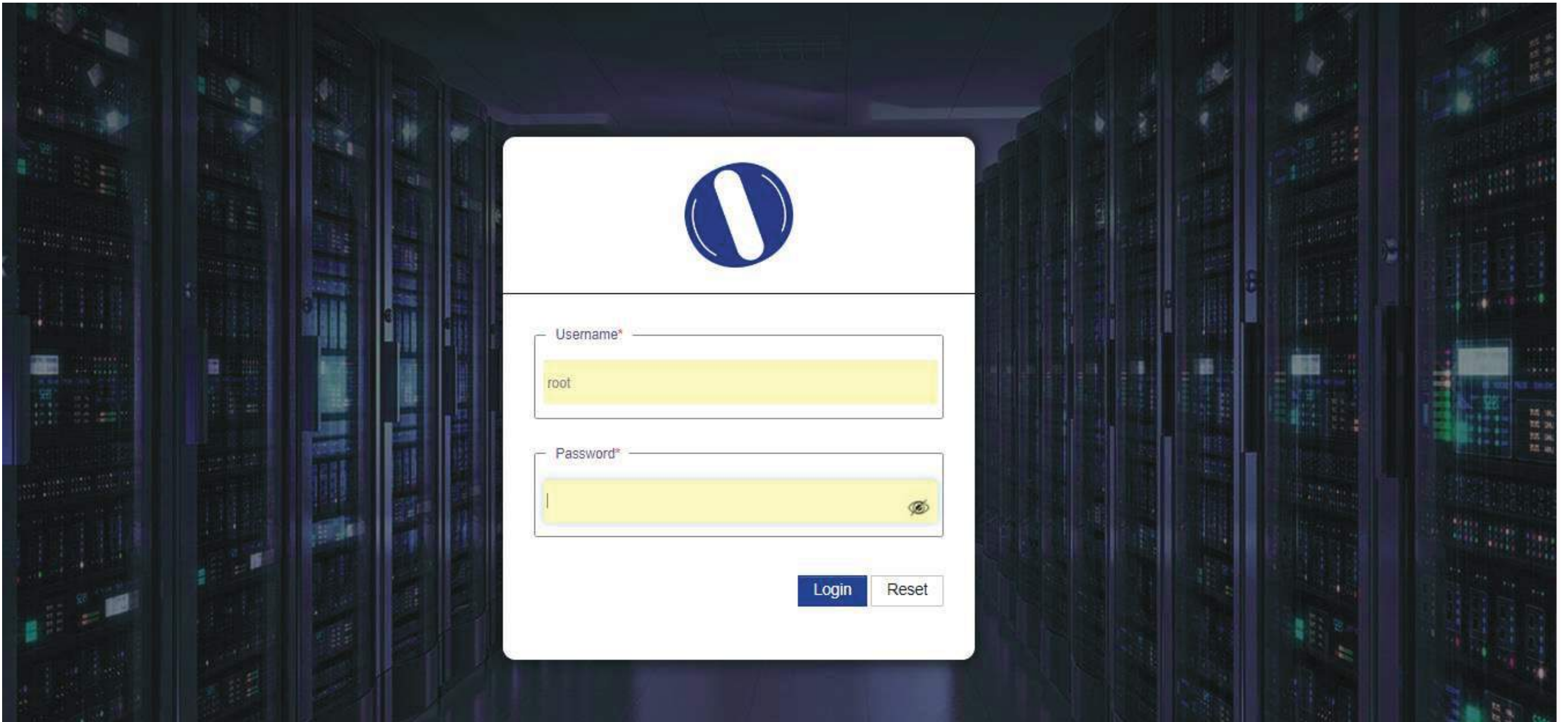
Section 2: Controller Managed AP

Follow the steps mentioned to connect Access Point to a network:

1. Connect the AP to DHCP network and Internet

2. Login to HFCL io cloud controller (cNMS) iocloud.hfcl.com with credentials provided

3. To get cNMS login credential, please send request email to iosupport@hfcl.com with below details

Customer name	Customer email address	Customer address	Customer contact number

Distributor/ Retailer Name	No. of AP Purchased	Country

4. Add AP group under configuration

5. Add APs in the AP group

6. Create SSID in the AP group

7. Refer our website io.hfcl.com for detailed information to configure AP through cNMS

ion12xi_h2 Access Point can be powered up using DC adaptor* or Active PoE++ Adaptor (48V)

Active PoE++ Adaptor (48V)

Cat-5 or Cat 6 (Ethernet Cable)

Laptop/ Computer
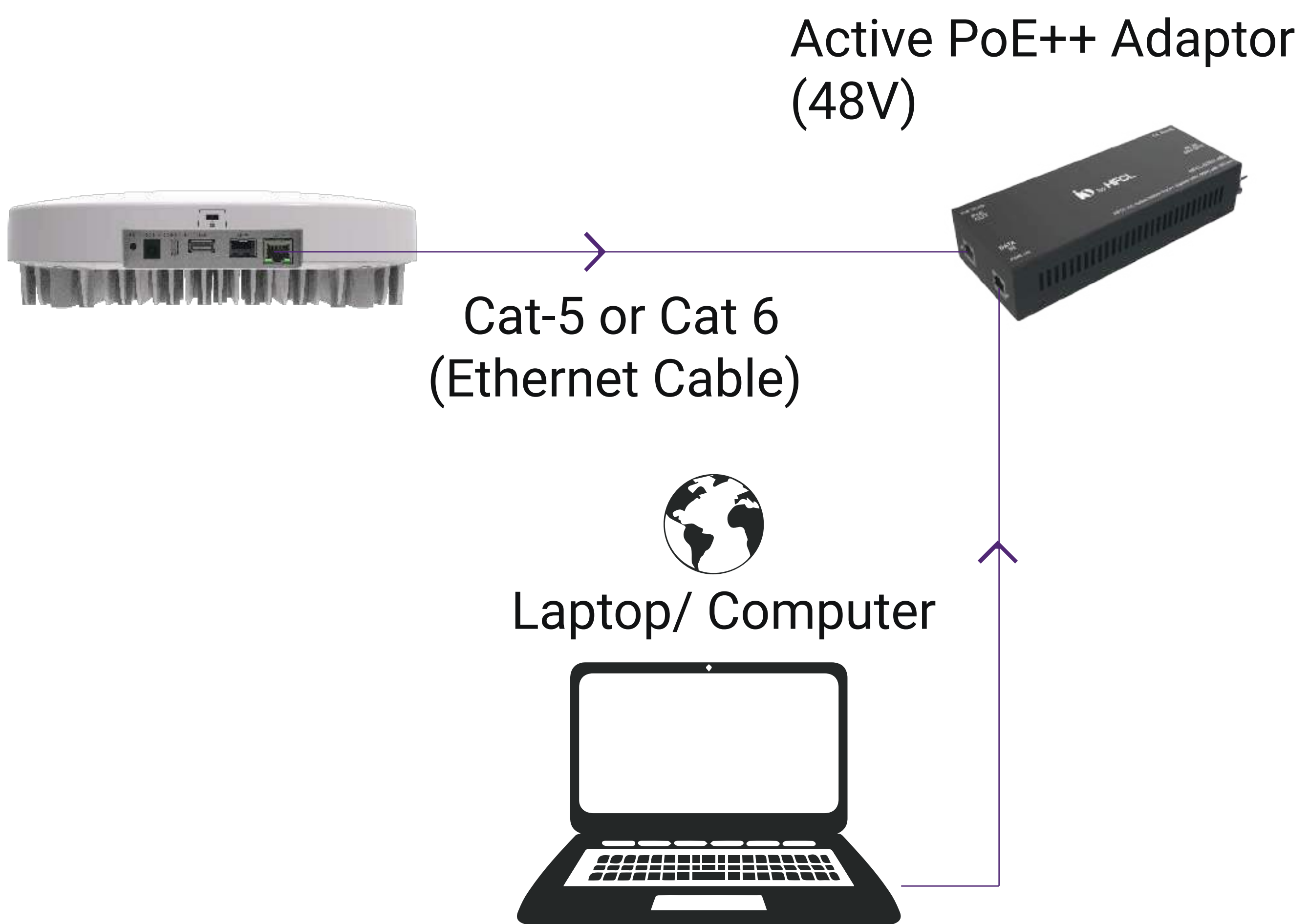
Step 1: Power up

1. Connect Access point PoE supported Ethernet port to Active PoE++ adaptor power port. Device will be powered on

Step 2: Connect to the network

Section 1: Standalone AP

1. Connect an Ethernet cable to the computer

2. Connect the other end of Ethernet cable to the data port on PoE adaptor

3. Configure the computer with a same domain static IP 192.168.1.X and a subnet mask of 255.255.255.0 (X is from 2 to 255)

4. Open the web browser and enter the Access Point static IP address in the address bar: 192.168.1.1

5. A login screen will appear

6. Enter the default login credential details:
   User-root, Password-hfcl!@ion
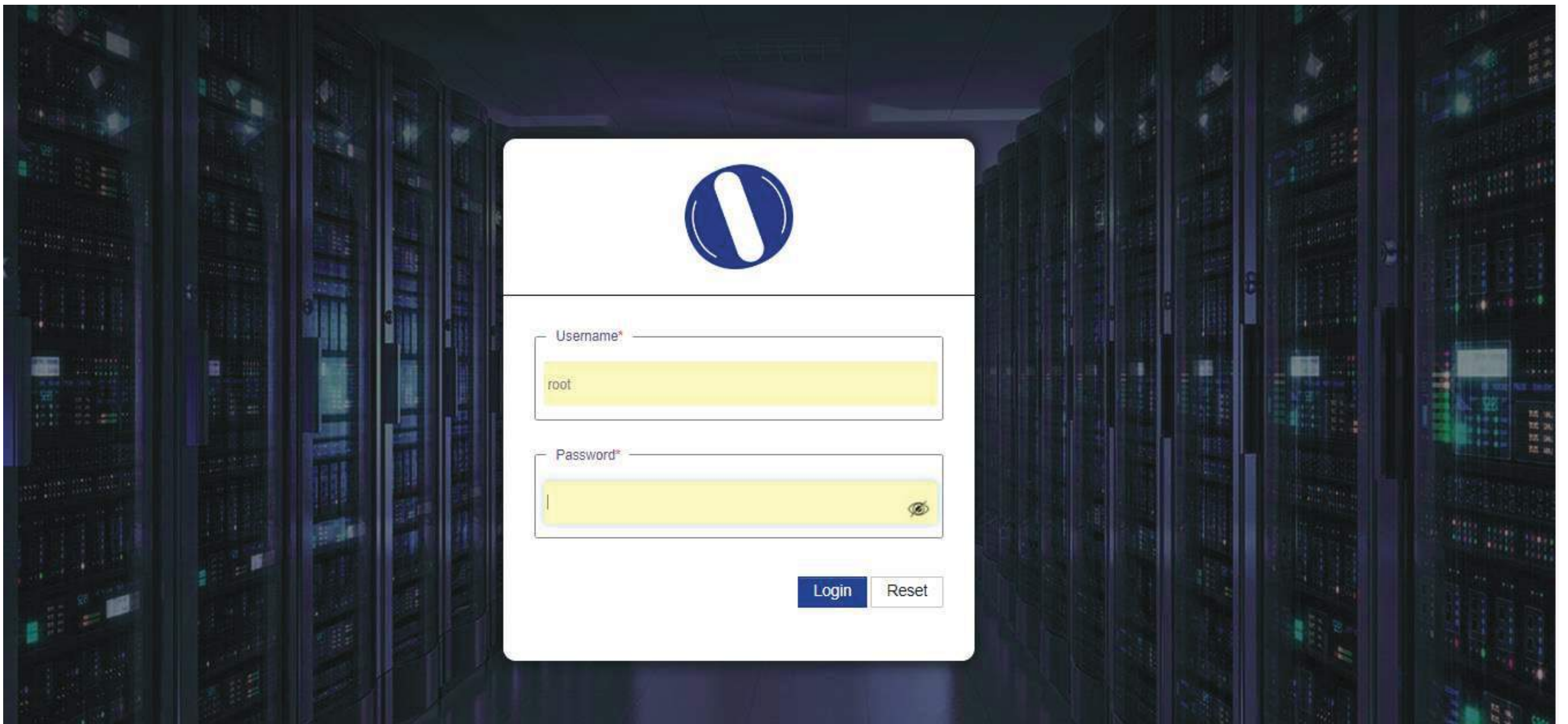
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1. Connect the AP to DHCP network and Internet

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   configure AP through cNMS

Step 2. Check the LED status

2.4 GHz status LED

5 GHz status LED

Power LED

LED Color	Status
Power LED	Blue Stable: The device is powered ON
2.4 GHz Status LED	Blue Stable: 2.4 GHz radio is active Blue Blinking: Data transmission on 2.4 GHz radio
5 GHz Status LED	Blue Stable: 5 GHz radio is active Blue Blinking: Data transmission on 5 GHz radio

Safety Precautions

Observe the following safety precautions to avoid damage to the Access Point:

(!)	Do not power the device during installation

(!)	Keep away from high voltage cables

(!)	Do not power off the unit in the middle of an upgrade process

(!)	Do not open the enclosure of the Access Point

(!)	Fasten the device tightly with the mount

(!)	Do not subject the device to high temperatures

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