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HFCL ion4i Access Point User Guide

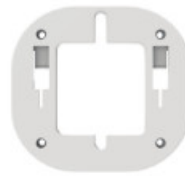**ion4i Access Point
User Guide**

Contents

Introduction

Thank you for choosing ion4i Wireless Access Point with 22.2 Multi-User MIMO and 802.11ac Wave 2 compliance.

Packaging Content

ion4i
Access Point
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Mounting
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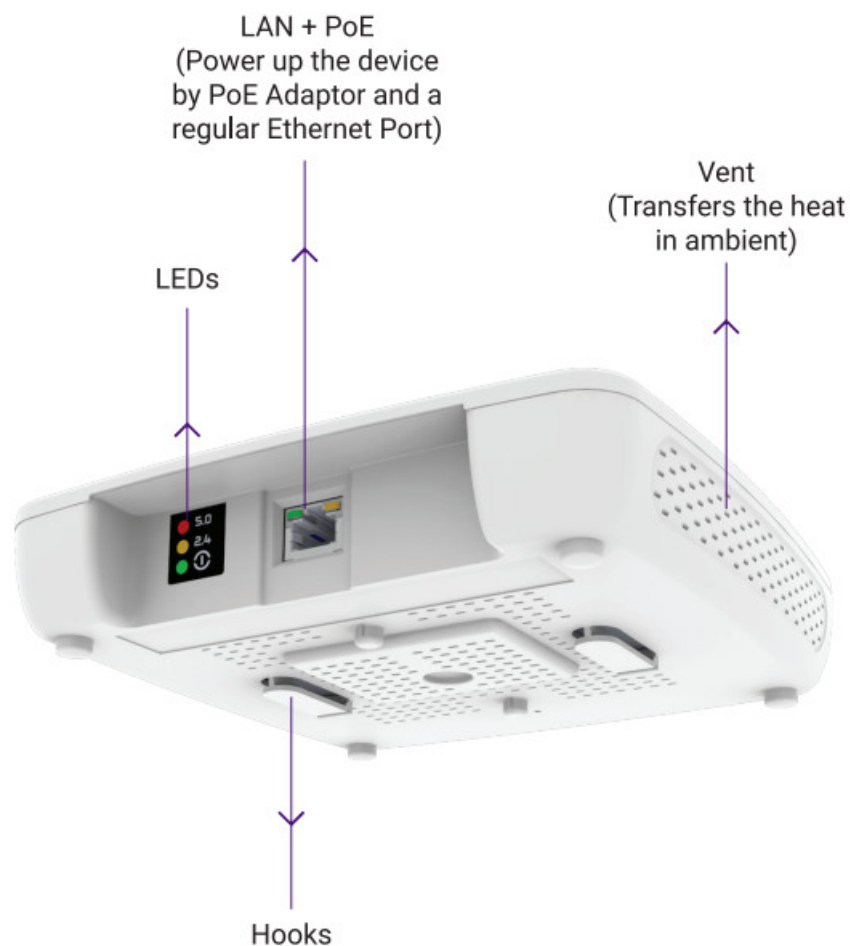
Mounting screws
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ion4i Specifications

Peak Throughput(aggregate)	Up to 1.27 Gbps (867 Mbps for 5 GHz and 400 Mbps for 2.4 GHz)
Wi-Fi Standard Support	802.11 a/b/g/n/ac/ac Wave 2
Interface	1 X 10/100/1000 BASE-T Ethernet
Radio Mode	2×2 MU-MIMO with 2 spatial streams
Mesh Support	Self-creating, Self-healing Mesh
Maximum number of SSID (per radio)	16
Maximum User Support	128 on 5 GHz and 64 on 2.4 GHz
Power Supply	IEEE 802.3af PoE
Power Consumption (Max)	12 W (approx.)
Max Transmit Power	23 dBm for 2.4 GHz, 27 dBm for 5 GHz (will depend on country specific guidelines)
Antenna Type	Integrated Omnidirectional Antennas
Antenna Gain	4.5 dBi for 5 GHz, 4 dBi for 2.4 GHz
Management	Standalone (via GUI) or through on-premise based solution or cloud-based
Enclosure Dimensions	175 x 175 x 37 mm or 6.89 x 6.89 x 1.46 inches
Weight	0.35 kg
Operating Temperature	0°C to 50°C
Certifications	FCC Class B, CE, Passpoint 2.0, RoHS 3.0

Product Overview

LAN + PoE
(Power up the device
by PoE Adaptor and a
regular Ethernet Port)

Vent
(Transfers the heat
in ambient)

LEDs

Hooks

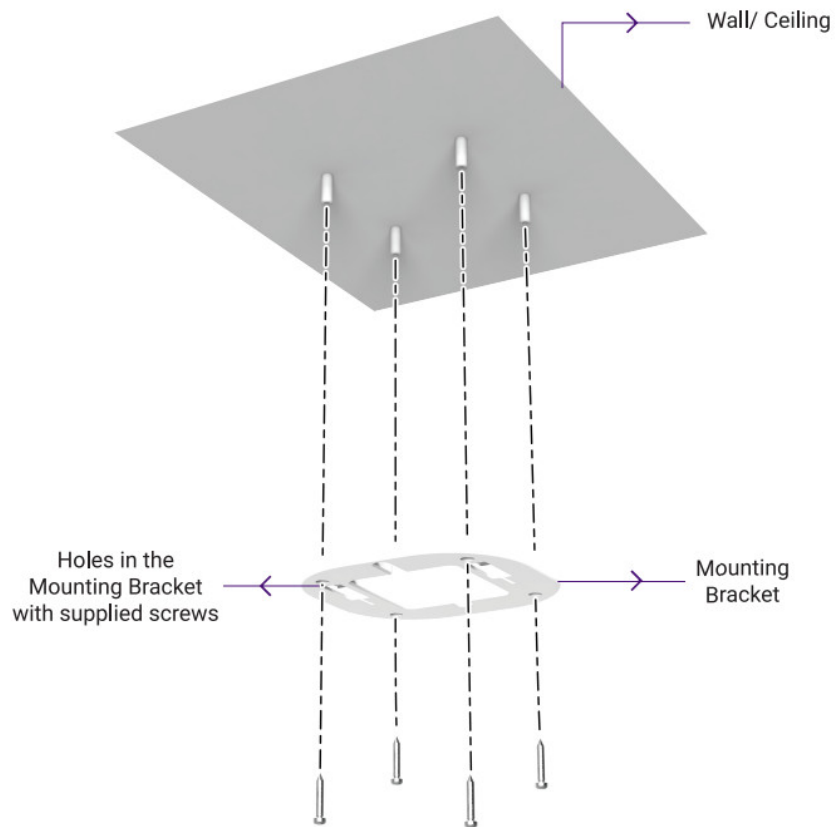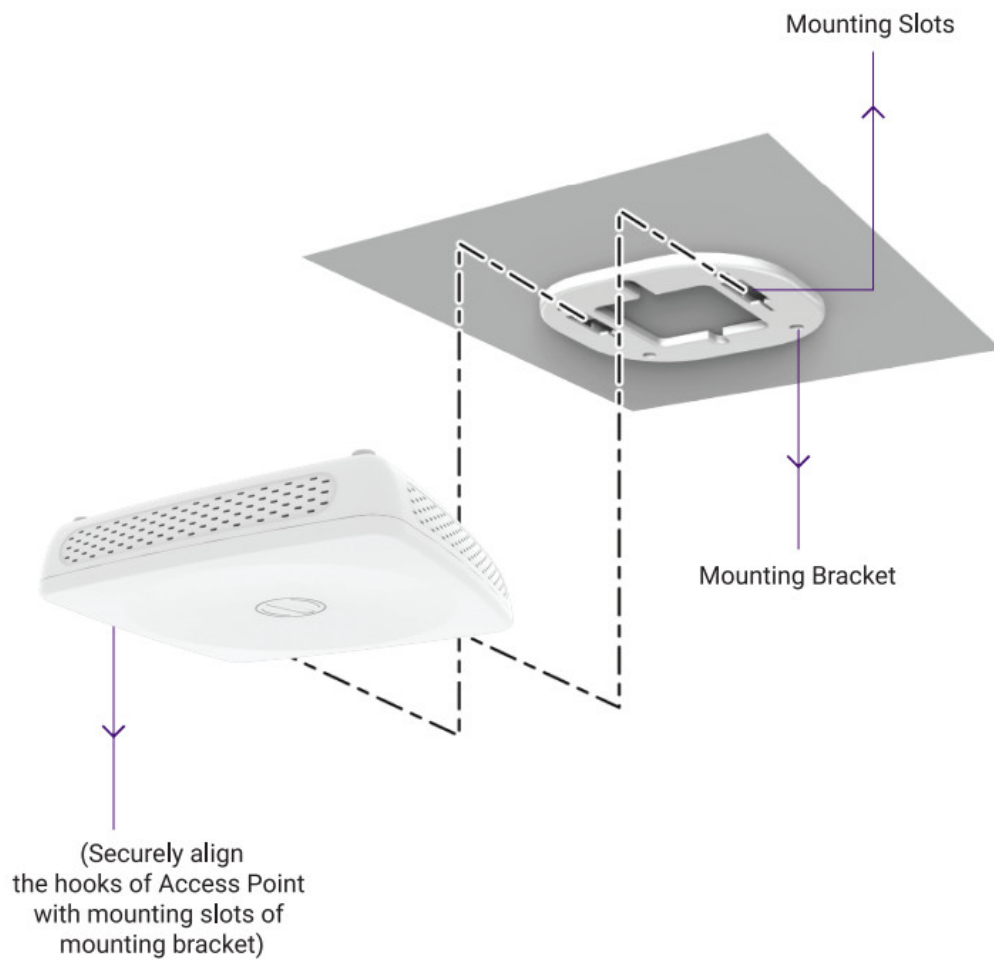## Mounting of ion4i Access Point

1. Place the Mounting Bracket which came with the package on a wall or ceiling and mark holes with a marker where you will insert the screws. Drill holes in the marked points and insert the plastic wall anchors.
2. Use supplied screws and attach mounting bracket on the wall
   Note Make sure that mounting bracket is tightly installed before mounting the Access Point on the wall or ceiling.
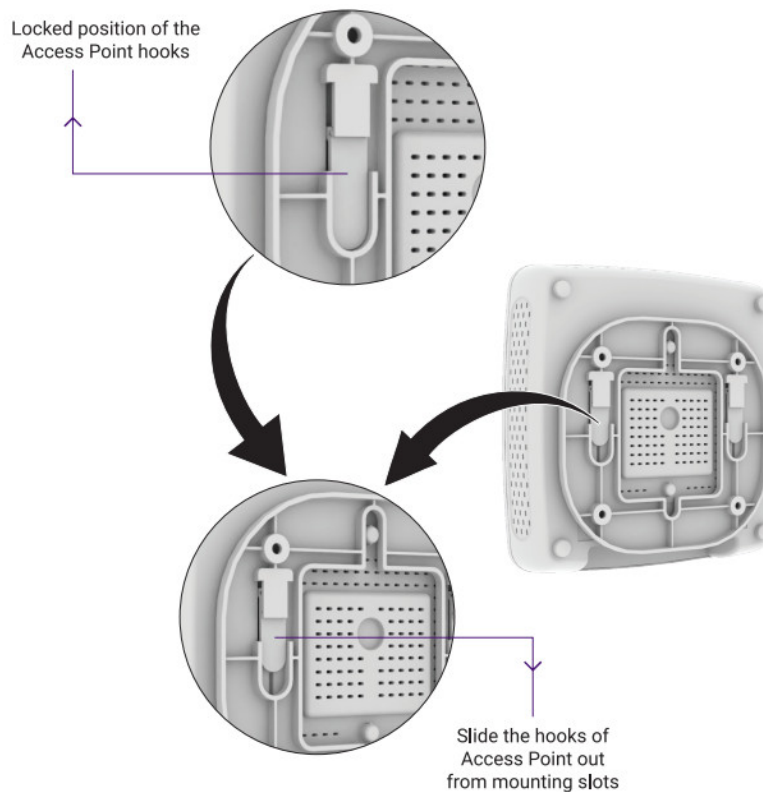
Wall/ Ceiling

Holes in the Mounting Bracket with supplied screws

Mounting Bracket

3. Align the hooks of Access Point with the mounting slots of the mounting bracket, ensure that it is properly hinged

Mounting Slots

Mounting Bracket

(Securely align the hooks of Access Point with mounting slots of mounting bracket)

Unmounting of ion4i Access Point

1. Slide the hooks of Access Point out from the mounting slots of mounting bracket.

Locked position of the
Access Point hooks

Slide the hooks of
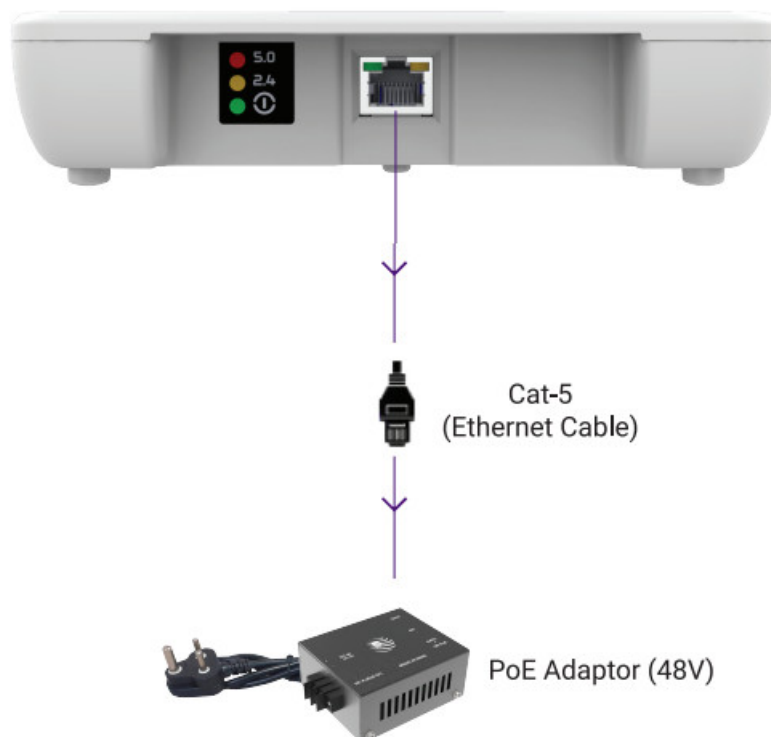Access Point out
from mounting slots

WARNING: HFCL is not held liable for any damages incurred during the process.

Getting the ion4i Online

Step 1: Power up
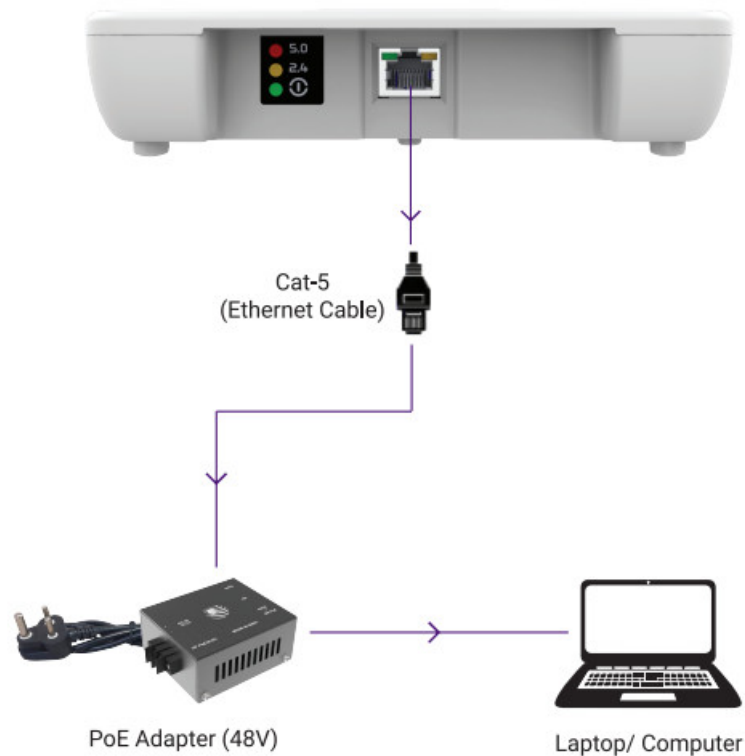The Access Point can be powered up using PoE adaptor (48V) as shown below:

Cat-5
(Ethernet Cable)

PoE Adaptor (48V)

Note: Plug and Adaptor will vary by country/ region

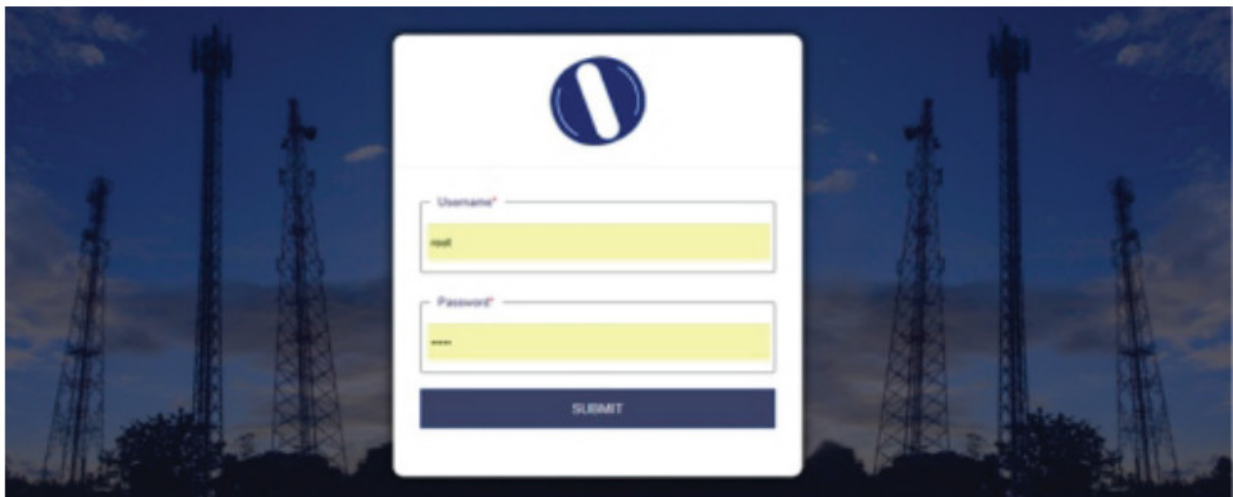### Step 2: Connect to the network
Section 1: Standalone AP

Follow the steps mentioned below and connect the Access Point to a network

1. Connect an ethernet cable to the computer.
2. Connect the other end of the ethernet cable to the LAN port on the ion4i Access Point or use a PoE adaptor (48V) to do so.

3. Open the web browser and enter the Access Point static IP address in the address bar. 192.168.1.1
4. A login screen will appear

   Enter the default login credential details:

   User- root, Password- hfcl!@ion

Section 2: Controller Managed AP
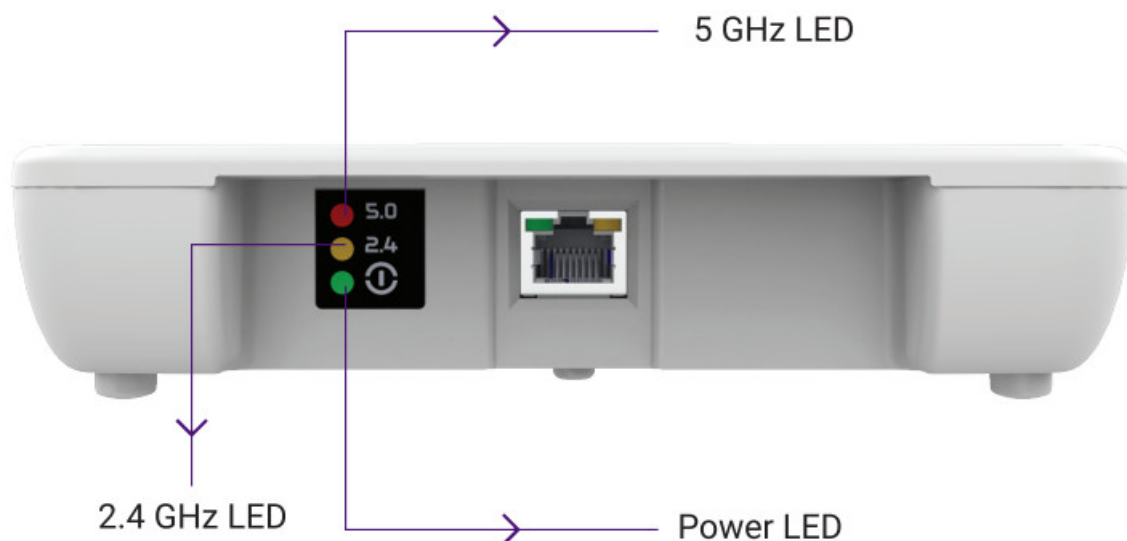Follow the steps mentioned to connect Access Point to a network

1. Connect an Ethernet cable to the computer
2. Power-up the AP through PoE adapter or PoE switch
3. Connect the AP to DHCP network and Internet
4. Login to HFCL 10 cloud controller (cNMS) **iocloud.hfcl.com** with credentials provided

4a. 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

5. Add AP group under configuration
6. Add APs in the AP group
7. Create SSID in the AP group
8. Refer our website io.hfcl.com for detailed information to configure AP through cNMS

Step 3: Check the LED status

LED Color	Status
Power LED Green	Green color notifies the user that the device is powered ON
2.4 GHz Status LED	Solid yellow color notifies the user that the 2.4 GHz radio is active and blinks while data is being transmitted on 2.4 GHz radio
5 GHz Status LED	Solid red color notifies the user that the 5 GHz radio is active and blinks while data is being transmitted on 5 GHz radio

Safety Precautions

Observe the following safety precautions to avoid damage to the ion4i Access Point:

⚠ Do not subject the device to high temperatures

⚠ Keep away from high voltage cables

⚠ Disconnect the device before cleaning it

⚠ Do not wipe the device with a damp cloth

⚠ Do not open the enclosure of the Access Point

⚠ Fasten the device tightly with the mount

Part Number QSG-01-0016
Revision: A

Documents / Resources

	HFCL ion4i Access Point [pdf] User Guide ion4i Access Point, ion4i, Access Point
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