HPE Networking Instant On Access Point AP11

Installation Guide

Instant On

Hewlett Packard Enterprise

Open Source Code

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Hewlett Packard Enterprise Company
Attn: General Counsel
WW Corporate Headquarters
1701 E Mossy Oaks Rd, Spring, TX 77389
United States of America

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Contents

Chapter 1
About This Guide

This document describes the hardware features of the HPE Networking Instant On Access Point AP11. It provides a detailed overview of the physical and performance characteristics of the HPE Networking Instant On Access Point AP11 and explains how to install the HPE Networking Instant On Access Point AP11.

Guide Overview

- Hardware Overview provides a detailed hardware overview of the HPE Networking Instant On Access Point AP11.
- Installation describes how to install the HPE Networking Instant On Access Point AP11 .
- Safety and Regulatory Compliance lists the HPE Networking Instant On Access Point AP11's safety and regulatory compliance information.

Support Information

Table 1: *Contact Information*

Main Site	https://instant-on.hpe.com
Support Site	https://instant-on.hpe.com/contact-support
Community	https://community.instant-on.hpe.com/home

Chapter 2
Hardware Overview

HPE Networking Instant On Access Point AP11 supports IEEE 802.11ac Wave 2, delivering high performance with 2x2 MU-MIMO (Multi-User Multiple-Input, Multiple-Output) technology, while also supporting 802.11a/b/g /n wireless services. The AP11 access point is designed for ceiling and wall mount.

Package Contents

Inform your supplier if there are any incorrect, missing, or damaged parts. If possible, retain the carton, including the original packing materials. Use these materials to repack and return the unit to the supplier if needed.

Item	Quantity
HPE Networking Instant On Access Point AP11	1
Ceiling mount bracket (suspended ceiling rail)	1
Wall/ceiling mount bracket (solid surface)	1
Ethernet cable	1

If you have ordered AP11 bundle, the package would also include a power adapter and cord to power the AP through an electrical power outlet.

Hardware Overview

Figure 1 *Front View*

The AP11 access point has two LEDs that indicate the system and radio status of the device.

System Status LED

Table 2: *System Status LED*

Color/State	Meaning
No lights	The AP has no power.
Green- blinking [1]	The AP is booting, not ready.
Green- solid	The AP is ready, fully functional, no network restrictions.
Green/Amber - alternating[2]	The AP is ready for configurations.
Amber- solid	The AP has detected a problem.
Red- solid	The AP has an issue - immediate action required.

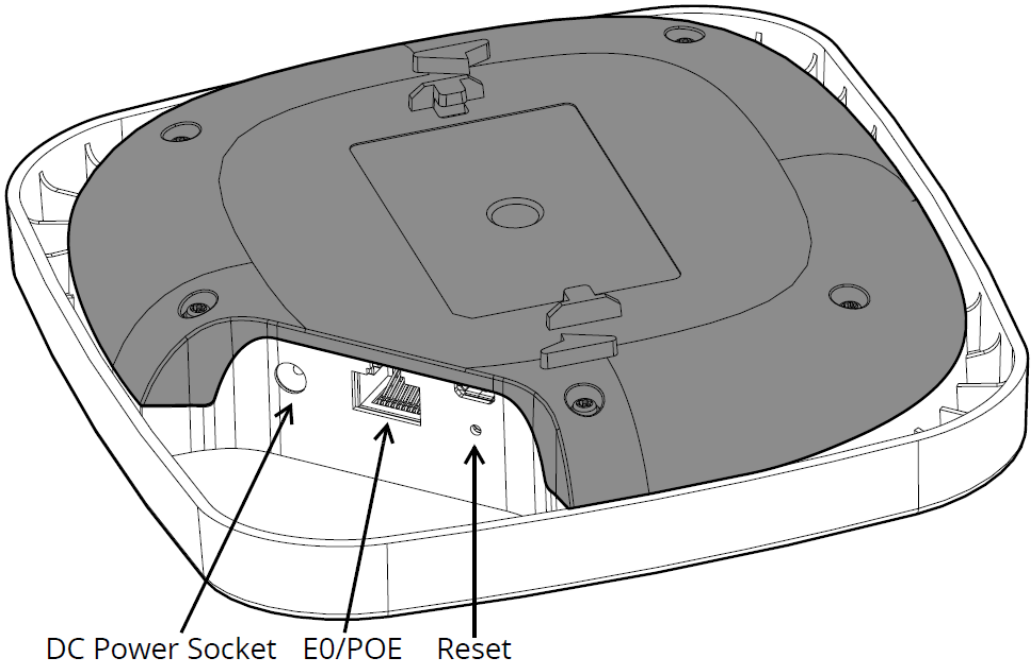
1. Blinking: one second on, one second off, 2-seconds cycle.
2. Alternating: one second for each color, 2-second cycle.

Radio Status LED

Table 3: *Radio Status LED*

Color/State	Meaning
No lights	Wi-Fi is not ready, wireless clients cannot connect.
Green - solid	Wi-Fi is ready, wireless clients can connect.

Figure 2 *Rear View*



Ethernet Port

The HPE Networking Instant On Access Point AP11 is equipped with one 10/100/1000Base-T auto-sensing, MDI/MDX Ethernet port (E0) for wired network connectivity. This port supports IEEE 802.3af Power over Ethernet (PoE), accepting 48Vdc (nominal) as a standard defined Powered Device (PD) from a Power Sourcing Equipment (PSE) such as a PoE midspan injector, or network infrastructure that supports PoE.

Reset Button

The reset button can be used to reset the access point to factory default settings. There are two ways to reset the access point to factory default settings:

- To reset the AP during normal operation, press and hold down the reset button using a small, narrow object such as a paper clip for more than 10 seconds during normal operation.
- To reset the AP while powering up, follow these steps:

1. Press and hold down the reset button, using a small and narrow object such as a paper clip, while the access point is not powered on (either through DC power or PoE).
2. Connect the power supply (DC or PoE) to the access point while the reset button is being held down.
3. Release the reset button on the access point after 15 seconds.

DC Power

If PoE is not available, a proprietary Aruba 12V/30W power adapter can be used to power the AP11 access point. This power adapter is available in the box if you buy the AP11 and power adapter bundle.

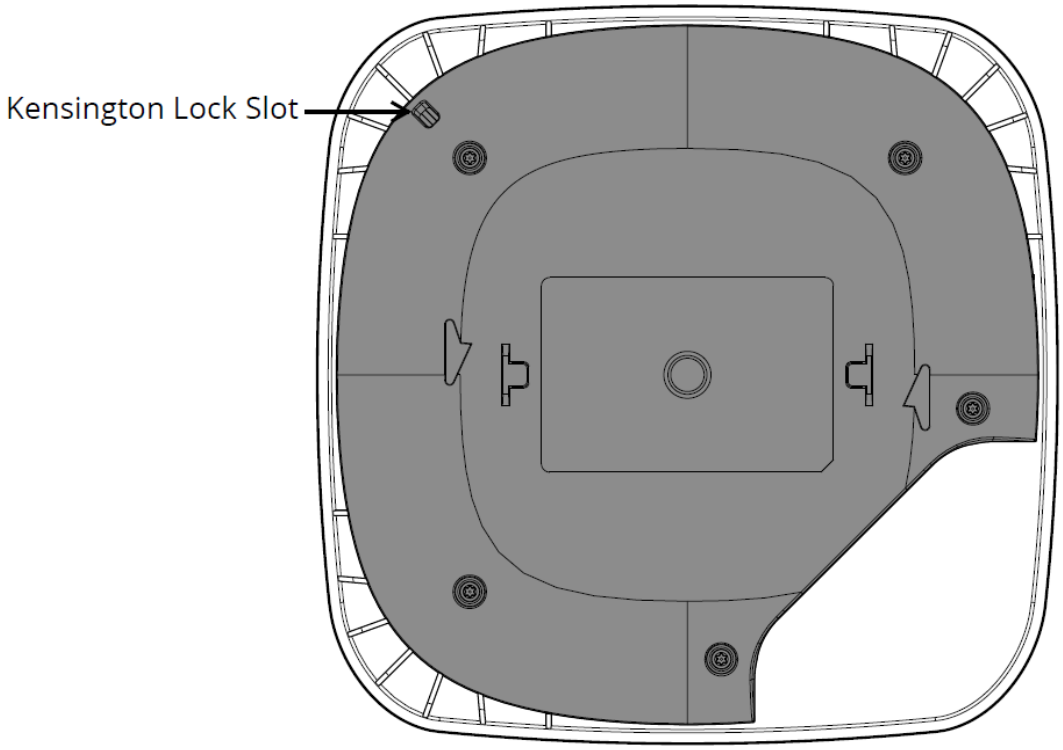
Additionally, a locally-sourced AC-to-DC adapter (or any DC source) can be used to power this device, as long as it complies with all applicable local regulatory requirements and the DC interface meets the following specifications:

- 12 Vdc (+/- 5%) and at least 12W
- 2.1/5.5 mm center-positive circular plug, 9.5 mm length

Kensington Lock Slot

The AP11 access point is equipped with a Kensington lock slot for additional security.

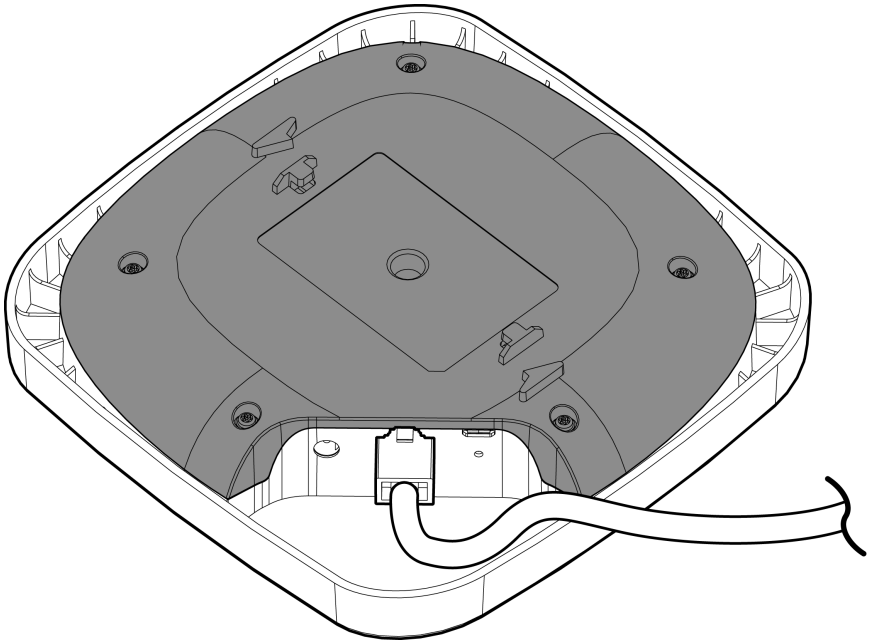
Figure 3 *Kensington Lock Slot*



Cable Clips

The cable clips on the rear of the access point is used to organize Ethernet cable, as shown in the figure below. The use of the cable clips is optional and does not support all types of cables and plugs.

Figure 4 *Cable Clips*



All Hewlett Packard Enterprise access points should be professionally installed by a professional installer. The installer is responsible for ensuring that grounding is available and meets applicable national and electrical codes. Failure to properly install this product may result in physical injury and/or damage to property.

CAUTION

Tous les points d'accès Hewlett Packard Enterprise doivent impérativement être installés par un professionnel agréé. Ce dernier doit s'assurer que l'appareil est mis à la terre et que le circuit de mise à la terre est conforme aux codes électriques nationaux en vigueur. Le fait de ne pas installer correctement ce produit peut entraîner des blessures corporelles et / ou des dommages matériels.

CAUTION

Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

CAUTION

Before You Begin

FCC Statement: Improper termination of access points installed in the United States configured to non-US model controllers will be in violation of the FCC grant of equipment authorization. Any such willful or intentional violation may result in a requirement by the FCC for immediate termination of operation and may be subject to forfeiture (47 CFR 1.80).

CAUTION

Identifying Specific Installation Locations

The HPE Networking Instant On Access Point AP11 is designed in compliance with governmental requirements, so that only authorized network administrators can change configuration settings. For more information about AP configuration, refer to the Instant On User Guide.

NOTE

Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

CAUTION

Use the access point placement map generated by Hewlett Packard Enterprise RF Plan software application to determine the proper installation location(s). Each location should be as close as possible to the center of the intended coverage area and should be free from obstructions or obvious sources of interference. These RF absorbers/reflectors/interference sources will impact RF propagation and should be accounted for during the planning phase and adjusted for in RF plan.

Identifying Known RF Absorbers/Reflectors/Interference Sources

Identifying known RF absorbers, reflectors, and interference sources while in the field during the installation phase is critical. Make sure that these sources are taken into consideration when you attach an access point to its fixed location.

RF absorbers include:

- Cement/ concrete—Old concrete has high levels of water dissipation, which dries out the concrete, allowing for potential RF propagation. New concrete has high levels of water concentration in the concrete, blocking RF signals.
- Natural Items—Fish tanks, water fountains, ponds, and trees
- Brick

RF reflectors include:

- Metal Objects—Metal pans between floors, rebar, fire doors, air conditioning/heating ducts, mesh windows, blinds, chain link fences (depending on aperture size), refrigerators, racks, shelves, and filing cabinets.
- Do not place an access point between two air conditioning/heating ducts. Make sure that access points are placed below ducts to avoid RF disturbances.

RF interference sources include:

- Microwave ovens and other 2.4 or 5 GHz objects (such as cordless phones)
- Cordless headset such as those used in call centers or lunch rooms

Access Point Installation

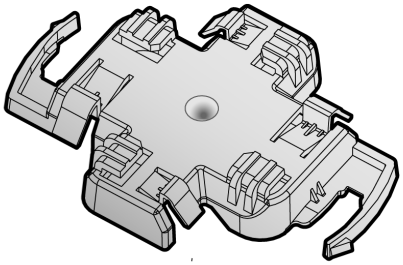
The HPE Networking Instant On Access Point AP11 ships with the following two mount brackets. You can choose one of them to install the AP:

- A ceiling mount bracket (see Figure 5) to attach the AP to a 9/16” or 15/16” flat T-bar drop-tile ceiling.
- A wall/ceiling mount bracket (see Figure 9)to attach the AP to a solid, flat surface, such as a wall or ceiling.

The following sections provide instructions on how to use these mount brackets.

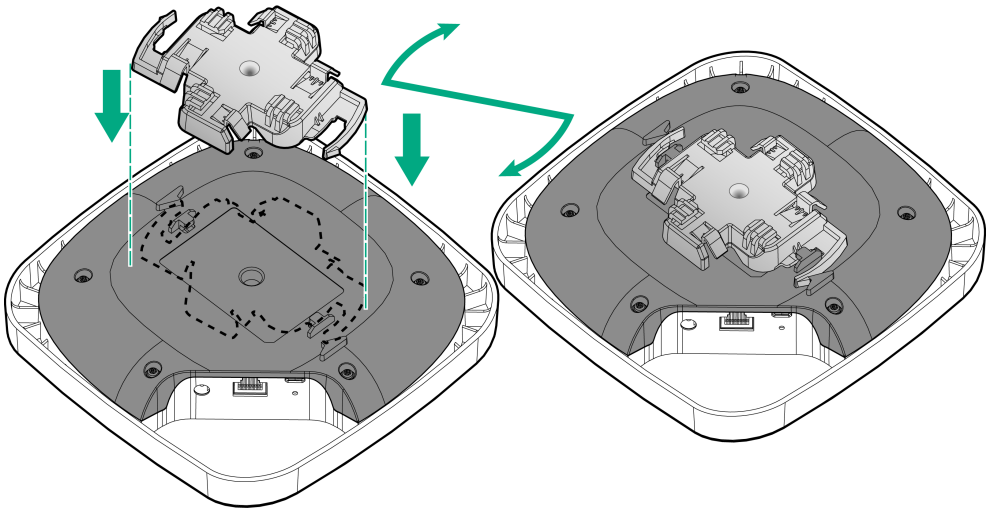
Using the Ceiling Mount Bracket

Figure 5 *Ceiling Mount Bracket*



1. Pull the necessary cables through a prepared hole in the ceiling tile near where the access point will be placed.
2. Place the mount bracket against the back of the access point with the mount bracket at an angle of approximately 30 degrees to the tabs.
3. Twist the mount bracket clockwise until it snaps into place in the tabs.

   Figure 6 *Attaching Ceiling Mount Bracket to AP*



4. Hold the access point next to the ceiling rail with the mounting tabs of the mount bracket at approximately a 30-degree angle to the ceiling rail. Make sure that any cable slack is above the ceiling tile.
5. Pushing toward the ceiling rail, rotate the access point clockwise until the it clicks into place on the ceiling rail.

Figure 7 *Installing Access Point to 15/16" Ceiling Rail*

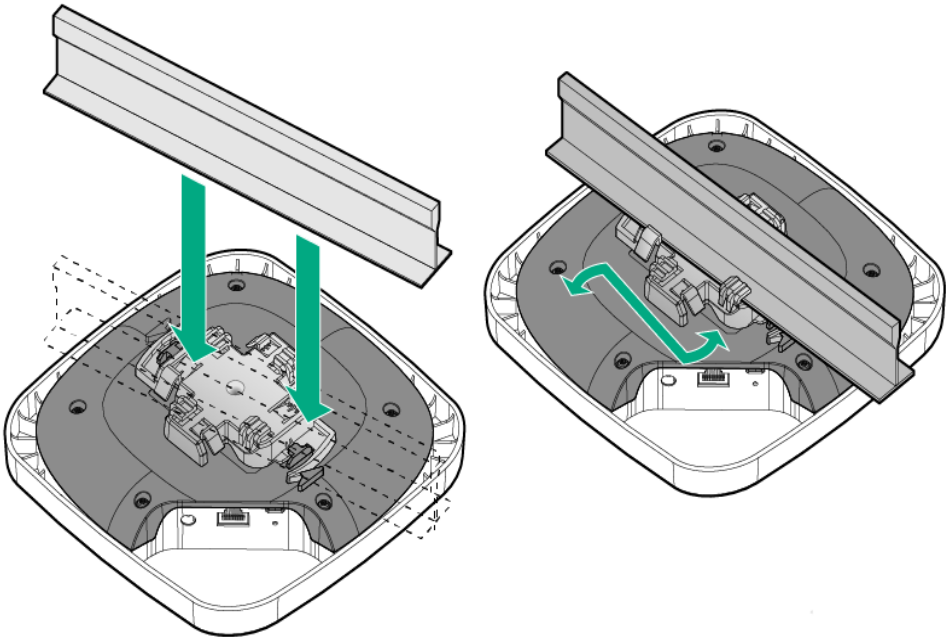
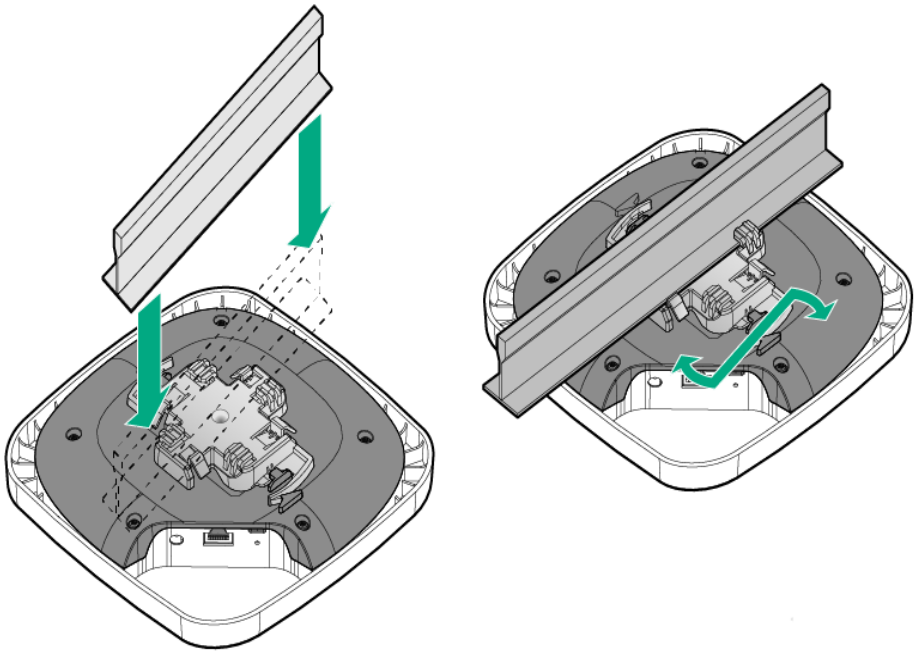
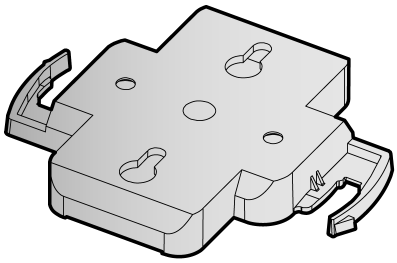


Figure 8 *Installing Access Point to 9/16" Ceiling Rail*



Using the Wall/Ceiling Mount Bracket

Figure 9 *Wall/Ceiling Mount Bracket*



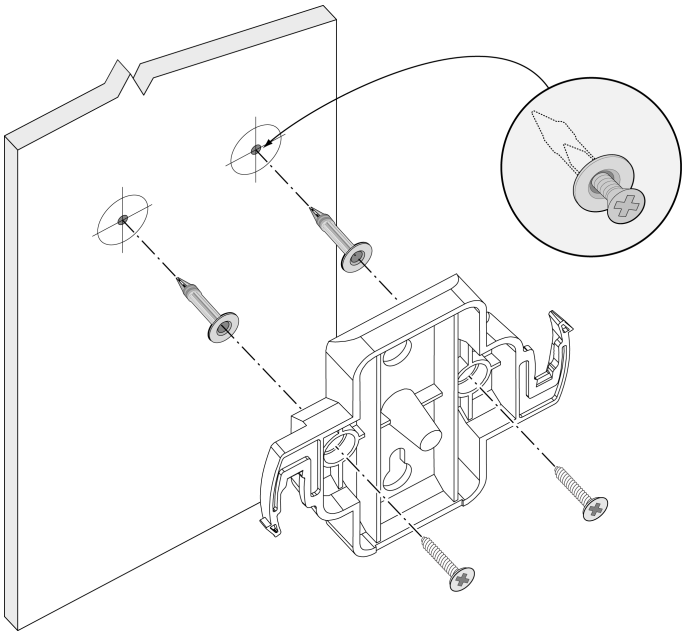
There are two ways to use the wall/ceiling mount bracket to mount the AP to a solid surface:

- Bracket-to-Solid Surface Option (Install the bracket to a solid surface and then attach the AP)
- AP-to-Bracket Option (Attach the bracket to the AP and then attach it to a wall)

Bracket-to-Solid Surface Option

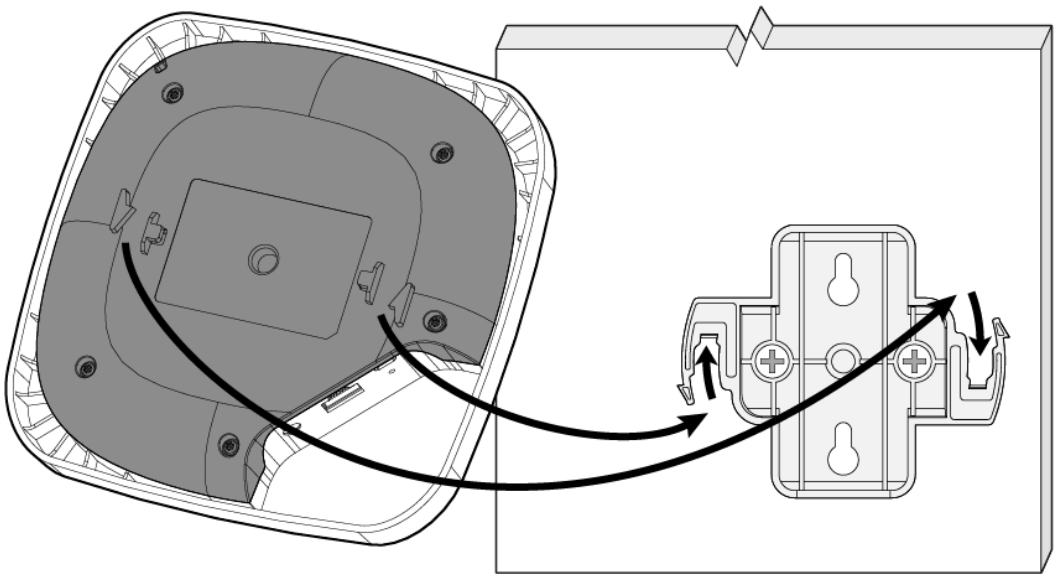
1. To attach the plastic mount bracket to any solid surface, such as a wall or ceiling, install any necessary wall anchors. Wall anchors are not included in the package.
2. Align the screw holes in the mount bracket with the previously installed anchors or demarcated screw points.
3. Insert two screws to secure the mount bracket. Screws are not included in the package.

   Figure 10 *Attaching the Mount Bracket to a Solid Surface*



4. Align the AP with the mount bracket, placing the AP so that it's mounting tabs are at an angle of approximately 30 degrees to the mount bracket.
5. Pushing towards the solid surface, rotate the AP clockwise until it clicks into place.

Figure 11 *Attaching AP to Mount Bracket*



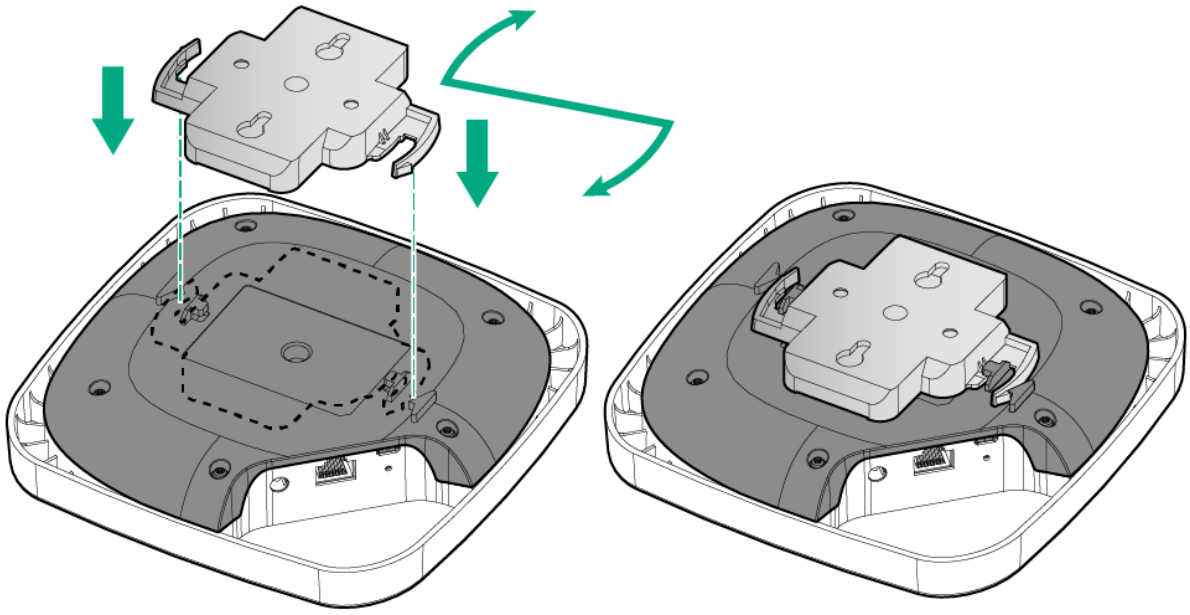
AP-to-Bracket Option

NOTE

This mounting option works only with a wall.

1. Place the mount bracket against the back of the AP with the bracket at an angle of approximately 30 degrees to the tab.
2. Twist the bracket clockwise until it snaps into place in the tabs.

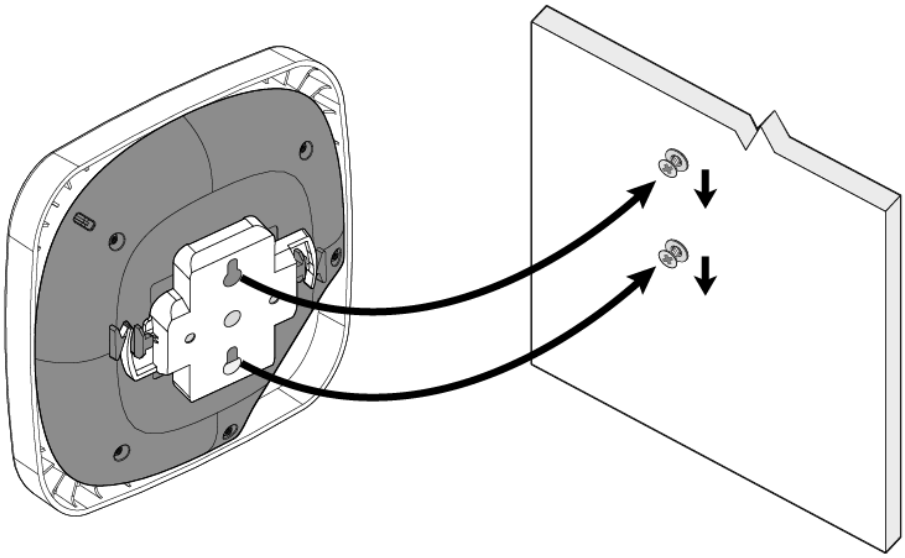
Figure 12 *Attaching Mount Bracket to AP*



3. Install two screws (and wall anchors if necessary), one above the other. Do not fully insert the screws into the wall. Leave enough space between the screw head and the wall for the bracket.

4. Align the keyhole slots on the back of the bracket with the screws installed in step 3.
5. Place the larger opening on the keyhole slot over the screw and pull the AP down until it is securely attached to the screws.

Figure 13 *Attaching AP to Wall*



Verifying Post-Installation Connectivity

The integrated LED on the access point can be used to verify that the access point is receiving power and initializing successfully .

Chapter 4
Safety and Regulatory Compliance

This chapter provides an overview of the HPE Networking Instant On Access Point AP11 safety and regulatory compliance information.

Regulatory Model Name

For the purpose of regulatory compliance certifications and identification, this product has been assigned a unique regulatory model number (RMN). The regulatory model number can be found on the product nameplate label, along with all required approval markings and information. When requesting compliance information for this product, always refer to this regulatory model number. The regulatory model number RMN is not the marketing name or model number of the product.

The regulatory model name for the HPE Networking Instant On Access Point AP11:

- AP11 RMN: APIN0303

Brazil

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

Para mais informações, consulte o site da Anatel: https://www.gov.br/anatel/pt-br

Canada

Innovation, Science and Economic Development Canada

This Class B digital apparatus meets all of the requirements of the Canadian Interference-Causing Equipment Regulations.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation of this device 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.

When operated in the 5.15 to 5.25 GHz frequency range, this device is restricted to indoor use to reduce the potential for harmful interference with co-channel Mobile Satellite Systems.

Innovation, Sciences et Développement économique Canada

Cet appareil numérique de Classe B répond à toutes les exigences de la réglementation canadienne sur le matériel brouilleur.

Cet appareil contient des émetteurs / récepteurs exemptés de licence qui sont conformes aux RSS exempts de licence d'Innovation, Sciences et Développement économique Canada. Son fonctionnement

est soumis aux deux conditions suivantes: (1) ce périphérique ne doit pas provoquer d'interférences, et (2) ce périphérique doit accepter toute interférence, y compris les interférences susceptibles de provoquer un dysfonctionnement.

Pour un fonctionnement dans la bande de fréquences comprises entre 5,15 et 5,25 GHz, son utilisation est limitée à un environnement intérieur afin de réduire la possibilité d'interférences nuisibles avec les systèmes mobiles par satellite opérant sur le même canal.

EAC

Нормативные требования Евразийского Экономического Союза

ТОО «Хьюлетт-Паккард (К)», Республика Казахстан, 050040, г. Алматы, Бостандыкский район, проспект Аль-Фараби, 77/7, Телефон/факс: + 7 727 355 35 50

ЖШС «Хьюлетт-Паккард (К)», Қазақстан Республикасы, 050040, Алматы к., Бостандык ауданы, Әл-Фараби даңғылы, 77/7, Телефон/факс: +7 727 355 35 50

European Union and United Kingdom

The Declaration of Conformity made under Radio Equipment Directive 2014/53/EU as well as the United Kingdom's Radio Equipment Regulations 2017/UK is available for viewing below. Select the document that corresponds to your device's model number as it is indicated on the product label.

EU & UK Declaration of Conformity

Compliance is only assured if the Hewlett Packard Enterprise approved accessories as listed in the HPE Networking Instant On Access Point AP11 data sheet are used.

This device is limited for indoor use. Use in trains with metal-coated windows (or similar structures made of materials with comparable attenuation characteristic) and aircraft is permitted.

Wireless Channel Restrictions

5150-5350MHz band is limited to indoor only in the following countries; Austria (AT), Belgium (BE), Bulgaria (BG), Croatia (HR), Cyprus (CY), Czech Republic (CZ), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Germany (DE), Greece (GR), Hungary (HU), Iceland (IS), Ireland (IE), Italy (IT), Latvia (LV), Liechtenstein (LI), Lithuania (LT), Luxembourg (LU), Malta (MT), Netherlands (NL), Norway (NO), Poland (PL), Portugal (PT), Romania (RO), Serbia (RS), Slovakia (SK), Slovenia (SL), Spain (ES), Sweden (SE), Switzerland (CH), Turkey (TR), United Kingdom (UK (NI)).

Radio	Frequency Range	Max EIRP
Wi-Fi	2412-2472 MHz	20 dBm
	5150-5250 MHz	23 dBm
	5250-5350 MHz	23 dBm
	5470-5725 MHz	30 dBm

EU & UK Regulatory Contact:

HPE, Postfach 0001,1122 Wien, Austria

India

This product conforms to the relevant Essential Requirements of TEC, Department of Telecommunications, Ministry of Communications, Govt of India, New Delhi-110001

Medical

1. Equipment not suitable for use in the presence of flammable mixtures.
2. Connect to only IEC 62368-1 or IEC 60601-1 certified products and power sources. The end user is responsible for the resulting medical system complies with the requirements of IEC 60601-1.
3. Wipe with a dry cloth, no additional maintenance required.
4. No serviceable parts, the unit must be sent back to the manufacturer for repair.
5. No modifications are allowed without approval from Hewlett Packard Enterprise.

Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

CAUTION

Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the access point. Otherwise, degradation of the performance of this equipment could result.

NOTE

This device has no IEC/EN60601-1-2 essential performance.

Compliance is based on the use of Hewlett Packard Enterprise approved accessories. Refer to the HPE Networking Instant On Access Point AP11 data sheet.

Mexico

La operación de este equipo está sujeta a las siguientes dos condiciones:

(1) es posible que este equipo o dispositivo no cause interferencia perjudicial y

(2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Morocco

Oman

OMAN - TRA
D080320
R/5543/18

Philippines

NTC

Type-Approval No.
ESD-1817237C

Singapore

Complies with IDA Standards DB100427

Taiwan

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

本器材須經專業工程人員安裝及設定，始得設置使用，且不得直接販售給一般消費者。

Ukraine

Hereby, Hewlett Packard Enterprise declares that the radio equipment type [The Regulatory Model Number [RMN] for this device can be found in the Regulatory Model Name section of this document] is in compliance with Ukrainian Technical Regulation on Radio Equipment, approved by resolution of the CABINET OF MINISTERS OF UKRAINE dated May 24, 2017, No. 355. The full text of the UA declaration of conformity is available at the following internet address: https://certificates.ext.hpe.com/.

Х'ЮЛЕТТ ПАКАРД ЕНТЕРПРАЗ, 6280 АМЕРИКА ЦЕНТР Д-Р, САН-ХОСЕ, КАЛІФОРНІЯ 95002, США

United States

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

This 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 manufacturer's 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 to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or TV technician for help.

Improper termination of access points installed in the United States configured to a non-US model controller is a violation of the FCC grant of equipment authorization. Any such willful or intentional violation may result in a requirement by the FCC for immediate termination of operation and may be subject to forfeiture (47 CFR 1.80).

The network administrator(s) is/are responsible for ensuring that this device operates in accordance with local/regional laws of the host domain.

RF Radiation Exposure Statement: This equipment complies with RF radiation exposure limits. This equipment should be installed and operated with a minimum distance of 7.87 inches (20 cm) between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Déclaration de la concernant l'exposition aux rayonnements à fréquence radioélectrique (FR): Cet appareil est conforme aux limites d'exposition aux rayonnements FR établies. Il doit être installé et utilisé à une distance minimale de 20 cm (7,87 pouces) entre le radiateur et votre corps. Cet émetteur ne doit pas être installé ou utilisé à proximité immédiate d'une autre antenne ni d'un autre transmetteur.

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

Toute modification effectuée sur cet équipement sans l'autorisation expresse de la partie responsable de la conformité est susceptible d'annuler son droit d'utilisation.