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aruba Instant On AP32 Small Business Wired and Wireless Networks

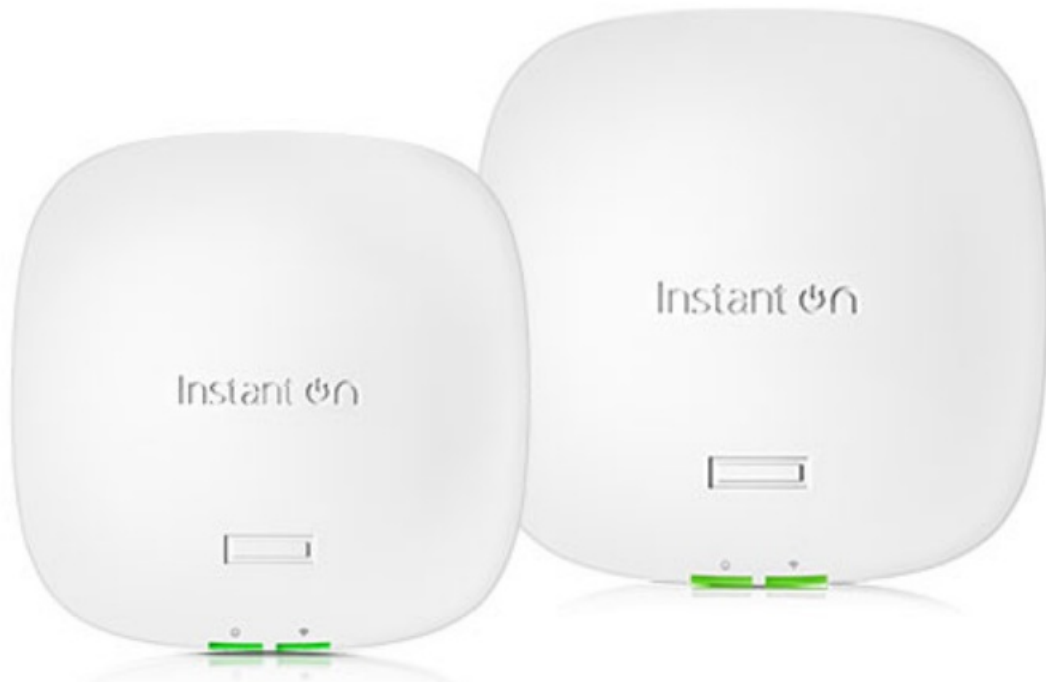# aruba Instant On AP32 Small Business Wired and Wireless Networks Installation Guide

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aruba Instant On AP32 Small Business Wired and Wireless Networks

Specifications

- Model: HPE Networking Instant On Access Point AP32
- Wireless Standard: IEEE 802.11ax (Wi-Fi 6E), IEEE 802.11a/b/g/n/ac
- Frequency Bands: 6 GHz, 5 GHz, 2.4 GHz

Product Usage Instructions

Installation Before You Begin:

1. Ensure you have all the package contents including the access point, wall/ceiling mount bracket, and Cat 5e Ethernet cable.
2. Identify the specific installation location based on your network requirements.

Software Access Point Installation:

1. Connect the access point to the power supply unit and plug into an electrical outlet.
2. Use the provided Cat 5e Ethernet cable to connect the access point to your network switch or router.

Verifying Post-Installation Connectivity:

1. Ensure the System Status LED on the front panel shows a solid green light, indicating the access point is ready and fully functional.
2. Access the system management software to configure the access point settings for your network requirements.

Safety and Regulatory Compliance
Refer to the user manual for detailed safety and regulatory compliance information regarding the HPE Networking Instant On Access Point AP32.

FAQ

- Q: What wireless standards does the HPE Networking Instant On Access Point AP32 support?

  A: The AP32 supports IEEE 802.11ax (Wi-Fi 6E), IEEE 802.11a/b/g/n/ac wireless standards.

- Q: How can I check the status of the access point after installation?

  A: Check the System Status LED on the front panel of the access point. A solid green light indicates the access point is ready and fully functional.

About This Guide
This document describes the hardware features of the HPE Networking Instant On Access Point AP32. It provides a detailed overview of the physical and performance characteristics of the HPE Networking Instant On Access Point AP32 and explains how to install the HPE Networking Instant On Access Point AP32.

Guide Overview

- Hardware Overview provides a detailed hardware overview of the HPE Networking Instant On Access Point AP32.
- Installation describes how to install the HPE Networking Instant On Access Point AP32 .
- Safety and Regulatory Compliance lists the HPE Networking Instant On Access Point AP32's safety and regulatory compliance information.

Support Information

HPE Networking Instant On Access Point AP32 supports the IEEE 802.11ax WLAN standard in the 6 GHz band (Wi-Fi 6E) as well as the 5 GHz and 2.4 GHz bands, while also supporting IEEE 802.11a/b/g/n/ac wireless services.

Main Site	**https://www.arubainstanton.com**
Support Site	**https://www.arubainstanton.com/contact-support**
Community	**https://community.arubainstanton.com**

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 AP32	1
Wall/Ceiling mount bracket	1
Cat 5e Ethernet cable, 1.5 m	1

If you have ordered HPE Networking Instant On Access Point AP32 bundle, the package would also include a power supply unit to power the AP through an electrical power outlet.

Hardware Overview

The LED displays located on the front panel of the access point indicate the system and radio status of the access point. The system and radio status can be turn on or off by the system management software.

1	System Status LED
2	Radio Status LED

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 – alternating2	The AP is ready for configurations.

Color/State	Meaning
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

Color/State	Meaning
No lights	Wi-Fi is not ready, wireless clients cannot connect.
Green – solid	Wi-Fi is ready, wireless clients can connect.
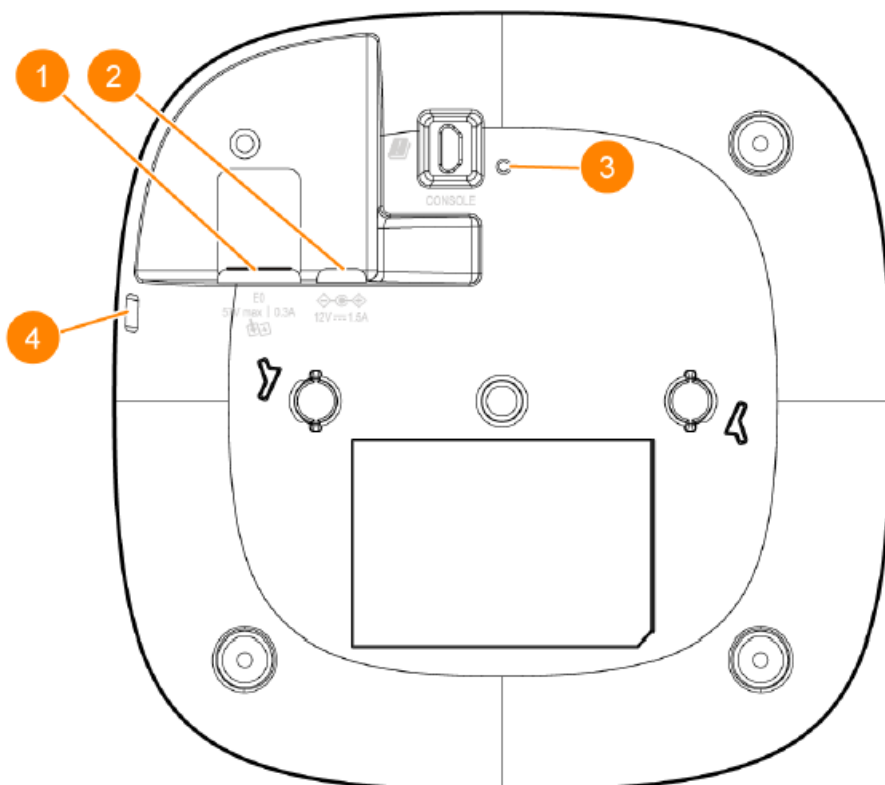
1. Ethernet Port (E0)

2. DC Power Port

3. Reset Button

4. Kensington lock

Ethernet Port
The HPE Networking Instant On Access Point AP32 is equipped with one active Ethernet port (E0). This port 100/1000/2500 Base-T, auto-sensing MDI/MDX, which supports uplink connectivity when linked by an Ethernet cable. The E0 port supports PoE-in, allowing the AP to draw power from an 802.3af/at PoE power source.

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:
    - 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).
    - Connect the power supply (DC or PoE) to the access point while the reset button is being held down.
    - Release the reset button on the access point after 15 seconds.

Power Sources

DC Power

- A 12V/18W power adapter can be used to power the HPE Networking Instant On Access Point AP32. The power adapter is included in the box if you buy the HPE Networking Instant On Access Point AP32 with power adapter bundle. To order the power adapter separately, use the part number R9M78A for HPE
- Networking Instant On Access Point AP32 US and EU models, and the part number R9M79A for HPE
- Networking Instant On Access Point AP32 RW model.

PoE
When both PoE and DC power sources are available, the DC power source has priority over any PoE supplied to E0.

CAUTION

- 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 property damage.
- 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.
- For indoor use only. The access point, AC adapter, and all connected cables are not to be installed outdoors.

This stationary device is intended for stationary use in partly temperature-controlled weather-protected environments (class 3.2 per ETSI 300 019).

Before You Begin

Refer to the sections below before beginning the installation process.

FCC Statement: Improper termination of access points installed in the United States configured to non-US model controllers will violate 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).

Pre-Installation Checklist
Before installing the access point, ensure that you have the following:

- A mount kit compatible with the AP and mount surface
- One Cat5E or better UTP cable with network access
- Optional items
- A compatible power adapter with a power cord
- A compatible PoE midspan injector with a power cord

Refer to the HPE Networking Instant On Access Point AP32 data sheet for compatible items, quantities needed, etc.

Identifying Specific Installation Locations

- The HPE Networking Instant On Access Point AP32 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.
- 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.
- Use the access point placement map generated by the 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

Software
For instructions on initial setup and software configuration, refer to the Instant On User Guide at
**https://www.arubanetworks.com/techdocs/ArubaDocPortal/content/cons-instanton-home.htm**.

Access Point Installation

The HPE Networking Instant On Access Point AP32 ships with a mount bracket to install the access point to a 9/16" or 15/16" ceiling tile rail, or on a solid surface, such as a wall or a hard ceiling

Installing AP to Ceiling Rail
To install the AP32 access point to a ceiling rail, follow these steps:

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 3 Attaching Mount Bracket to AP
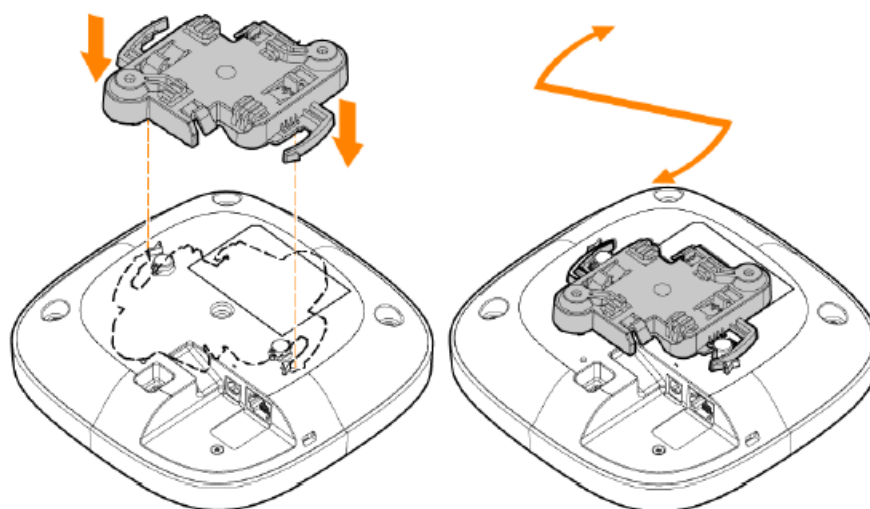
4. Hold the access point next to the ceiling rail with the mounting tabs of the mount bracket at approximately a 30-

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.
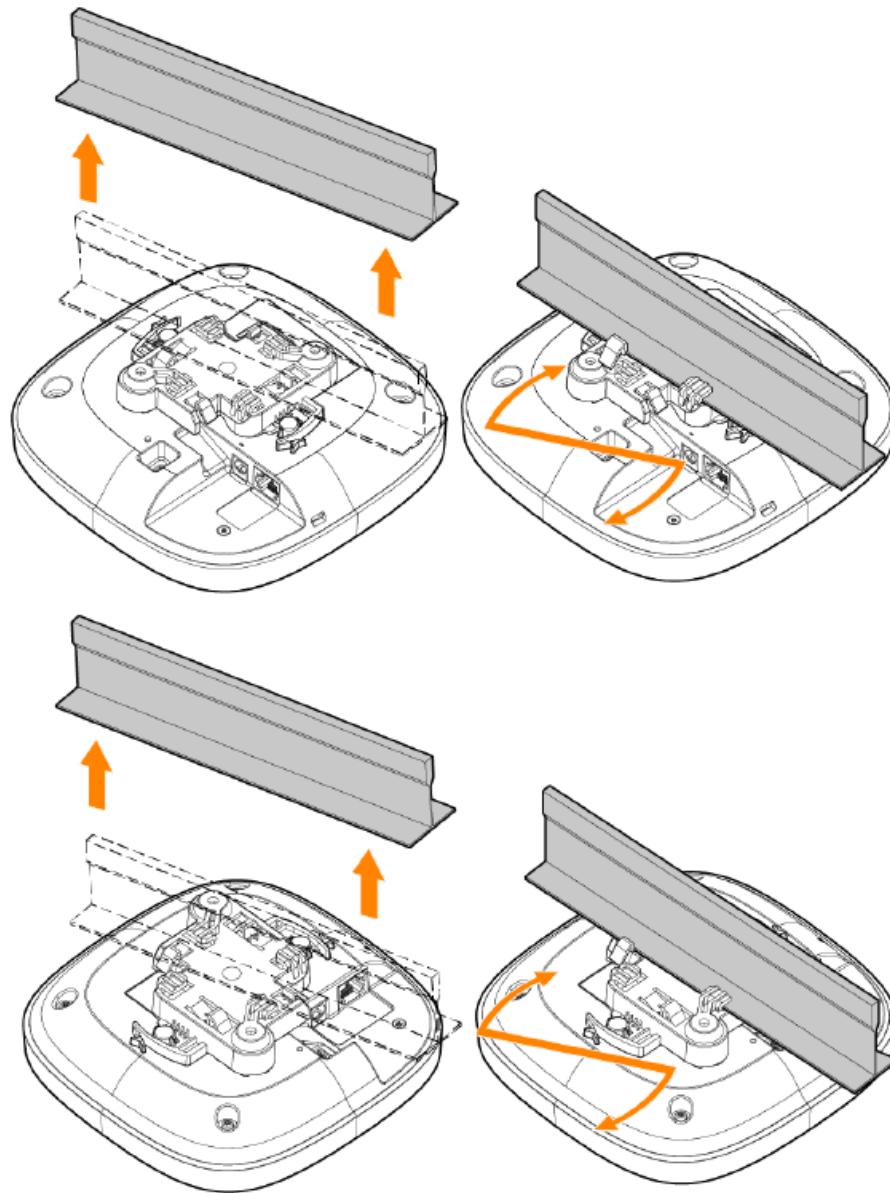

Installing AP to Solid Surface

To install an access point to a solid surface, such as a wall or hard ceiling, follow these steps:

1. Use the mount bracket as a template to mark two mounting hole positions on the wall.
2. Drill holes at the two marked positions and install the wall anchors as per the installation instructions provided with the wall anchors.
3. Align the screw holes on the mount bracket with the corresponding wall anchors.
4. Use a Philips screwdriver to fasten the screws into the wall anchors to secure the mount bracket on the wall

    Figure 6 Screwing Mount Bracket to Wall
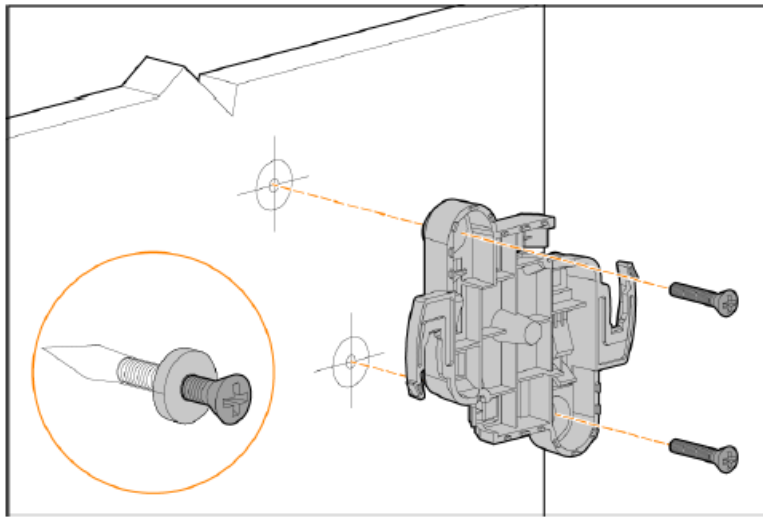
5. Align the access point with the mount bracket, placing the access point so that it's mounting tabs are at an angle of approximately 30 degrees to the mount bracket.

6. Pushing towards the wall, rotate the access point clockwise until it clicks into place.

Figure 7 Attaching AP to Mount Bracket
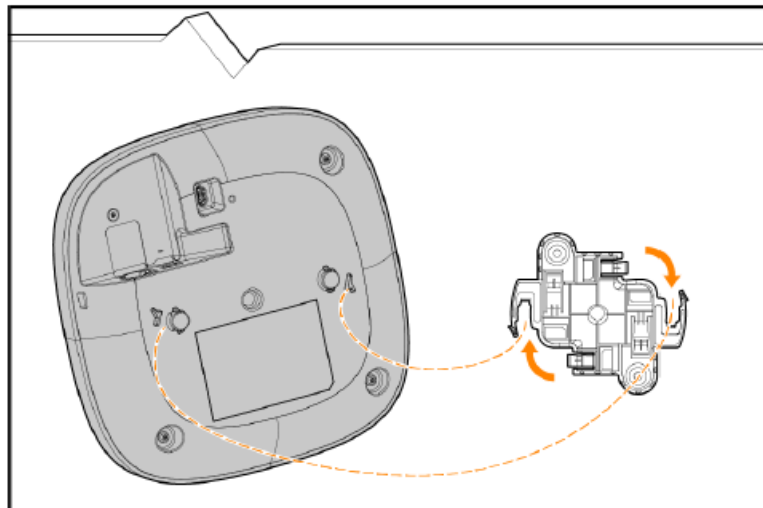
Verifying Post-Installation Connectivity

The integrated LED on the access point can be used to verify that the access point is receiving power and initializing successfully
This chapter provides an overview of the HPE Networking Instant On Access Point AP32 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 AP32:

AP32 RMN: APIN0615

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 license-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.
- Operation shall be limited to indoor use only.
- Operation on oil platforms, cars, trains, boats, and aircraft shall be prohibited except for on large aircraft flying above 10,000 feet.
- Devices shall not be used for control of or communications with unmanned aircraft systems.

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
Wireless Channel Restrictions 5150-5350MHz band is limited to indoors 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), 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
	5725-5850 MHz	14 dBm
	5945-6425 MHz	23 dBm

Medical

1. Equipment is 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 is 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.

This product has not been qualified as a Medical Device under EU Directive 92/42/EEC. When deployed in medical environments it must be inaccessible to patients. If integrated as a component into a Medical Device, the integrator is responsible for ensuring that the requirements of 92/42/EEC are met.

- 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.
- 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.
- This device is intended for indoor use in professional healthcare facilities.
- 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 AP32 data s

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**.

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, under 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 by 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 the 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 by local/regional laws of the host domain.

CAUTION

- FCC regulations restrict the operation of this device to indoor use only.
- 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 in the 5.9725-7.125GHz band is prohibited for control or communication with unnamed aircraft systems.

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.

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

Proper Disposal of Hewlett Packard Enterprise Equipment
Hewlett Packard Enterprise equipment complies with countries' national laws for proper disposal and electronic waste management

Waste of Electrical and Electronic Equipment
Hewlett Packard Enterprise products at end of life are subject to separate collection and treatment in the EU Member States, Norway, and Switzerland and therefore are marked with the symbol shown at the left (crossed-out wheelie bin). The treatment applied at end of life of these products in these countries shall comply with the applicable national laws of countries implementing Directive 2012/19/EU on Waste of Electrical and Electronic Equipment (WEEE).

European Union RoHS
Hewlett Packard Enterprise products comply with the EU Restriction of Hazardous Substances Directive 2011/65/EU (RoHS). EU RoHS restricts the use of specific hazardous materials in the manufacture of electrical and electronic equipment. Specifically, restricted materials under the RoHS Directive are Lead (including Solder used in printed circuit assemblies), Cadmium, Mercury, Hexavalent Chromium, and Bromine. Some products are subject to the exemptions listed in RoHS Directive Annex 7 (Lead in solder used in printed circuit assemblies). Products and packaging will be marked with the "RoHS" label shown at the left indicating conformance to this Directive.

India RoHS
This product complies with RoHS requirements as prescribed by E-Waste (Management & Handling) Rules, governed by the Ministry of Environment & Forests, Government of India.

China RoHS
Hewlett Packard Enterprise products also comply with China's environmental declaration requirements and are labeled with the "EFUP 50" label shown at the left.

Taiwan RoHS

Turkey RoHS material content declaration
Türkiye Cumhuriyeti: AEEE Yönetmeliğine Uygundur

Documents / Resources

HPE Networking Instant On Access Point AP32 Installation Guide Instant On Hewlett Packard Enterprise	[aruba Instant On AP32 Small Business Wired and Wireless Networks](#) [pdf] Installation Guide AP32, AP32 Small Business Wired and Wireless Networks, Small Business Wired and Wireless Networks, Wired and Wireless Networks, Wireless Networks, Networks

References

- ▭ **Regulations certificates | Hewlett Packard Enterprise**
- ▣ **Product Regulatory Certifications (External) Application**
- ▣ **Product Regulatory Certifications (External) Application**
- ⏻ **Aruba Instant On Community - Aruba Instant On Community**
- ⏻ **Aruba Instant On Community - Aruba Instant On Community**
- ▭ **My HPE Software Center**
- ⏻ **Aruba Instant On - Small-Business wired and wireless Networks**
- ⏻ **Aruba Instant On - Small-Business wired and wireless Networks**
- ⏻ **Support | Aruba Instant On**
- ▣ **Anatel — Agência Nacional de Telecomunicações**
- **User Manual**