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Instant On AP22D Access Point featured

Instant On AP22D Access Point Installation Guide

Instant on

Instant On AP22D Access Point

This document describes the hardware features of the HPE Networking Instant On Access Point AP22D. It provides a detailed overview of the physical and performance characteristics of the HPE Networking Instant On Access Point AP22D and explains how to install the HPE Networking Instant On Access Point AP22D.

Guide Overview

- Hardware Overview provides a detailed hardware overview of the HPE Networking Instant On Access Point AP22D.

- Installation describes how to install the HPE Networking Instant On Access Point AP22D .

- Safety and Regulatory Compliance lists the HPE Networking Instant On Access Point AP22D's safety and regulatory compliance information.

Support Information

Table 1: Contact Information

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

HPE Networking Instant On Access Point AP22D supports the IEEE 802.11ax WLAN standard (Wi-Fi 6), while also supporting IEEE 802.11a/b/g/n/ac wireless services.

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 AP22D	1
Desk stand	1
Single-gang wall box mount bracket	1
Ethernet Cable	1

If you have ordered HPE Networking Instant On Access Point AP22D bundle, the package would also include a power supply unit to power the AP through an electrical power outlet.

Hardware Overview

Figure 1 *Front View*
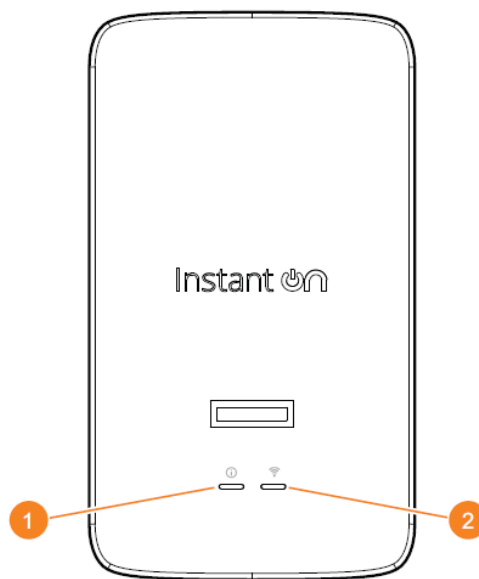
1. System Status LED
2. Radio Status LED

The system and radio status can be turn on or off by the system management software.

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 – alternating2	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 *Side View*
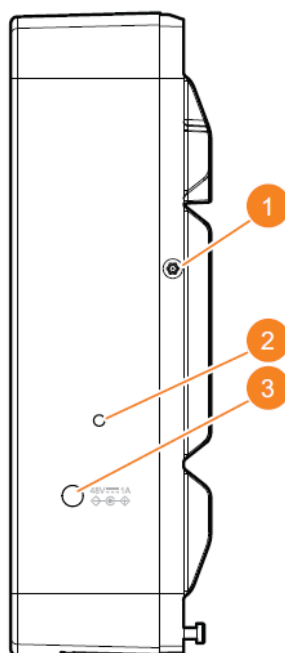
1. Security Screw Hole
2. Reset
3. DC Power Port
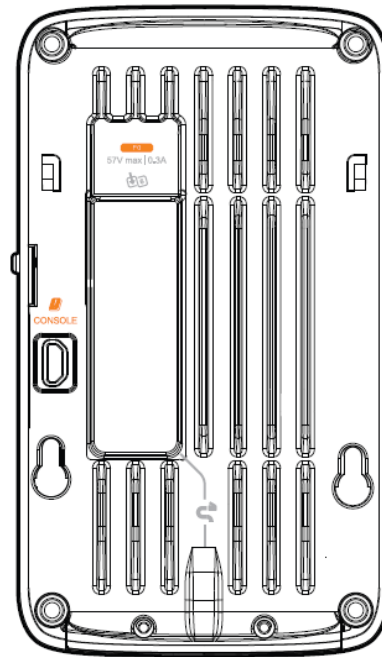
Figure 3 *Rear View*

Figure 4 *Bottom View*
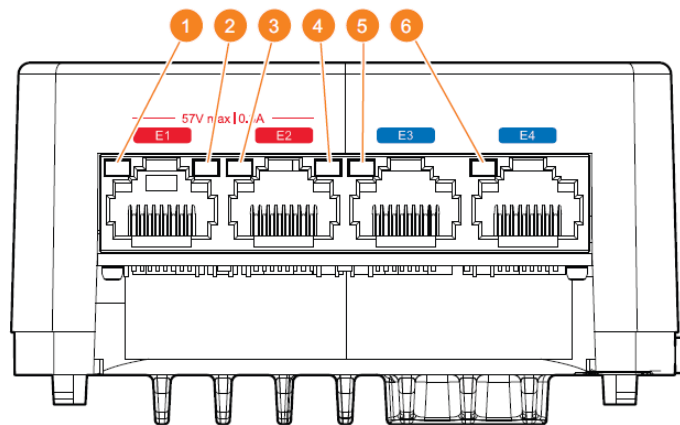
1. Network Status LED on E1

2. Status LED on E1 for PoE

3. Network Status LED on E2

4. Status LED on E2 for PoE

5. Network Status LED on E3

6. Network Status LED on E4

Ethernet Ports

The HPE Networking Instant On Access Point AP22D is equipped with five Ethernet ports E0 to E4. The E0 port is 100/1000/2500 Base-T, auto-sensing MDI/MDX, which supports uplink connectivity when linked by an Ethernet cable. The access points support downlink network connectivity through E1-E4 Ethernet ports. The ports are 10/100/1000Base-T auto-sensing MDI/MDX. Ports E1 and E2 have power sourcing capability (PSE) to supply power to any compliant 802.3af (class 0-3) PD device.

Network Status LEDs

The Network Status LEDs, on the sides of the E1-E4 ports, indicates activity transmitted to or from the wired ports.

Table 4: Network Status LEDs

Color/State	Meaning
Off	Meets one of the following conditions: ■ AP is powered off. ■ Port is disabled. ■ No link or activity
Green- solid	Link established at max speed (1Gbps)
Green – blinking 1	Activity detected across a max speed link
Amber – solid	Link established at reduced speed (10/100Mbps)
Amber – blinking	Activity detected across a reduced speed link

1. Blinking: one second on, one second off, 2-seconds cycle.

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.

Power Sources

DC Power
A 48V/50W AC/DC power adapter is available in the box if you buy the HPE Networking Instant On Access Point AP22D bundle. To purchase the power adapter separately, refer to the HPE Networking Instant On Access Point AP22D ordering guide.

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

Table 5: Power Sources, Features, and PSE Operation

Power Port	Power Source	Spec	Features Enabled	PSE Operation	
				E1	E2
DC	AC Power Adapter	48V 50W	No restrictions, all features enabled	Class 3	Class 3
E0	PoE	Class 6	No restrictions, all features enabled	Class 3	Class 3
		Class 4	E2 PSE disabled	Class 3	No PSE
		Class 3	E1 and E2 PSE disabled	No PSE	No PSE

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 damage to property.

- 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 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).

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 or two Cat5E or better UTP cables with network access
- Optional items:
- A compatible power adapter with power cord
- A compatible PoE midspan injector with power cord
- Refer to the HPE Networking Instant On Access Point AP22D data sheet for compatible items, quantities needed, etc.

Identifying Specific Installation Locations
The HPE Networking Instant On Access Point AP22D 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 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
For indoor use only. The access point, power 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).

Desk Mount
To install the HPE Networking Instant On Access Point AP22D to the included desk stand, follow these steps:

1. Insert the Ethernet jumper cable to the E0 port on the back of the access point. This Ethernet jumper cable is pre-installed on the desk stand.

**Figure 5** *Installing Access Point to Desk Stand*
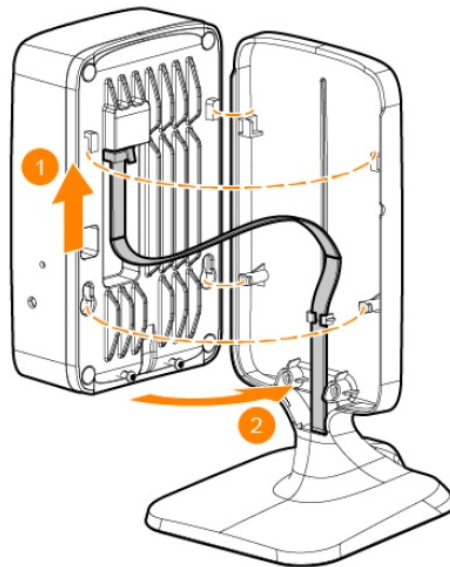
2. Align the keyholes on the back of the access point to the corresponding posts on the inside of the desk stand. Press the access point into the desk stand, then slide the access point down until the posts engage with the keyholes.

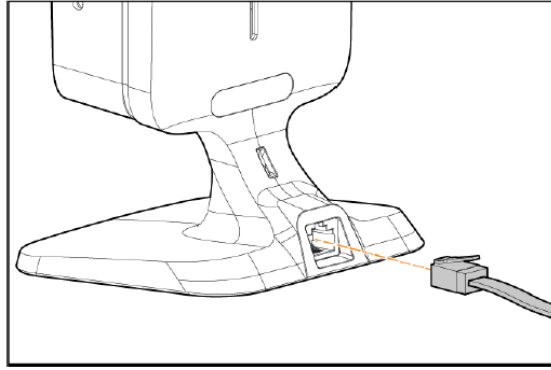**Figure 6** *Attaching Access Point onto Desk Stand*
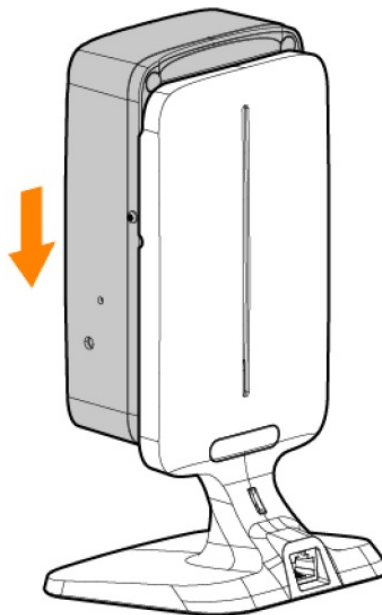
3. Once the access point is attached to the desk stand, lift the cap on the back of the desk stand, insert and tighten the two screws into the holes, then put the cap back on.

Figure 7 *Securing Access Point on Desk Stand*
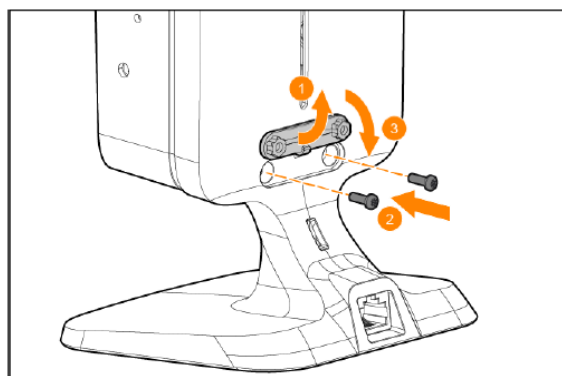
4. Connect the Ethernet cable to the Ethernet port on the desk stand.
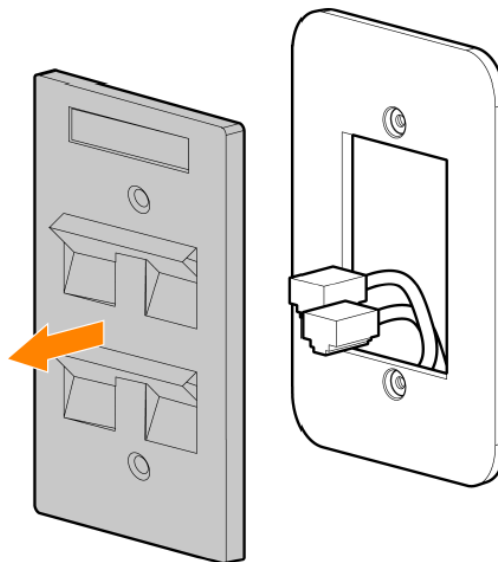
Figure 8 *Connecting Ethernet Cable*

Single-gang Wall Box Mount

You can use the included single-gang wall box mount bracket to mount the HPE Networking Instant On Access Point AP22D to a single-gang wall box.

1. If the wall box is not already exposed, unscrew and remove the existing wall plate.

Figure 9 *Removing Existing Wall Plate*

2. If needed, detach any RJ45 cables by unclipping the connectors from the wall plate.

3. Align the screw holes on the mount bracket with the corresponding holes on the single gang wall box.

4. Screw the mount bracket onto the wall box using the included #6-32 x 1 Phillips screws
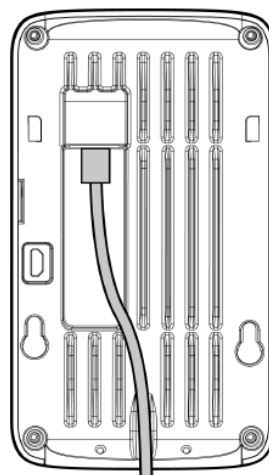
Figure 10 *Attaching Mount Bracket to Single Gang Wall Box*
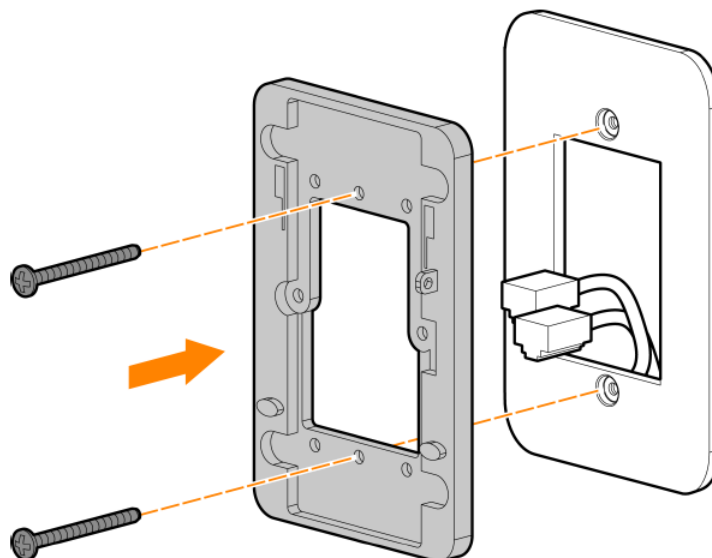
5. Attach an active Ethernet cable to the E0 port on the back of the access point. Make sure that the Ethernet
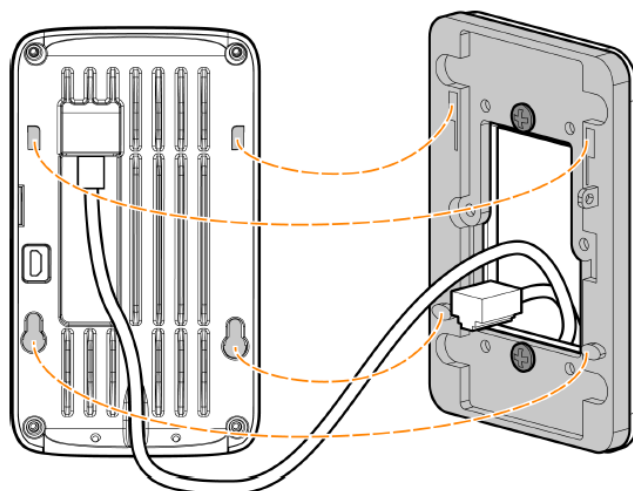
cable is in the groove on the back of the access point.

Figure 11 *Routing Ethernet Cable*

6. Align the slots on the back of the access point against the guide posts and slots on the mount bracket, then slide the access point down.

Figure 12 *Aligning Slots on Access Point with Mount Bracket*

7. Once the access point is attached to the mount bracket, insert and fasten the security screw on the right side of the access point.

Figure 13 *Fastening Security Screw*
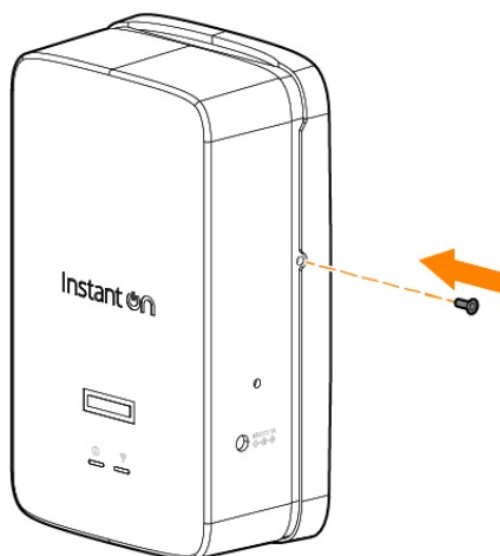
Verifying Post-Installation Connectivity

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 AP22D 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 AP22D: n AP22D RMN: APINH505

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.

Radio	Frequency Range	Max EIRP
	2412-2472 MHz	20 dBm
	5150-5250 MHz	23 dBm
Wi-Fi	5250-5350 MHz	23 dBm
	5470-5725 MHz	30 dBm
	5725-5850 MHz	14 dBm

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.

Caution:

- 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.

Note:

- 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 AP22D data sheet.

Operating Temperature and Humidity

- Operating temperature: 0°C to +40°C (+32°F to +122°F)
- Operating humidity: 5% to 93% RH, non-condensing

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, 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 (20cm) 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, a Hewlett Packard Enterprise company products also 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 Aruba 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.

Documents / Resources

HPE Networking Instant On Access Point AP22D Installation Guide Instant On	**Instant On AP22D Access Point** [pdf] Installation Guide AP22D, AP22D Access Point, Access Point, Point

References

- **Product Regulatory Certifications (External) Application**
- **Product Regulatory Certifications (External) Application**

- ⏻ **[Down For Maintenance](#)**
- ⏻ **[Aruba Instant On Community - Aruba Instant On Community](#)**
- ▭ **[My HPE Software Center](#)**
- ▷ **[Anatel — Agência Nacional de Telecomunicações](#)**
- **[User Manual](#)**