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Hewlett Packard 730 Series Campus Access Points Installation Guide

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HPE Aruba Networking
730 Series Campus Access Points

Installation Guide

Hewlett Packard Enterprise

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HPE aruba networking

HPE Aruba Networking 730 Series Campus Access Points | Installation Guide

Edition 1 | April 2025

Chapter 1
About This Guide

This document describes the hardware features of the HPE Aruba Networking 730 Series Campus Access Points. It provides a detailed overview of the physical and performance characteristics of each access point model and explains how to install the access point.

Guide Overview

- <u>Hardware Overview</u> provides a detailed hardware overview of the HPE Aruba Networking 730 Series Campus Access Points .
- <u>Installation</u> describes how to install the HPE Aruba Networking 730 Series Campus Access Points.
- <u>Specifications, Safety, and Compliance</u> lists the HPE Aruba Networking 730 Series Campus Access Points's technical specifications, safety, and regulatory compliance information.

Related Documentation

You require the following documents for the complete management of HPE Aruba Networking 730 Series Campus Access Points.

- Latest document of the software user guide:
  https://www.arubanetworks.com/techdocs/ArubaDocPortal/content/cons-aos-home.htm
- CLI bank: https://www.arubanetworks.com/techdocs/CLI-Bank/Content/Home.htm

Contacting Support

Table 1: Contact Information

Main Site	arubanetworks.com
Support Site	https://networkingsupport.hpe.com/home
Airheads Social Forums and Knowl edge Base	community.arubanetworks.com
North American Telephone	1-800-943-4526 (Toll Free) 1-408-754-1200
International Telephone	arubanetworks.com/support-services/contact-support/
Software Licensing Site	lms.arubanetworks.com

End-of-life Information	arubanetworks.com/support-services/end-of-life/
Security Incident Response Team	Site: arubanetworks.com/support-services/security-bulletins/ Email: aruba-sirt@hpe.com

Chapter 2
Hardware Overview

The HPE Aruba Networking 730 Series Campus Access Points support the IEEE 802.11be (Wi-Fi 7) WLAN standard, while also supporting IEEE 802.11a/b/g/n/ac/ax wireless services.

Package Contents

Inform your supplier to check 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.

Table 2: Package Contents

Item	Quantity
HPE Aruba Networking 730 Series Campus Access Point	1
Console adapter cable (in eco-friendly 5-packs only)	1

Access Point Overview

Figure 1 AP-734/AP-734A Front View
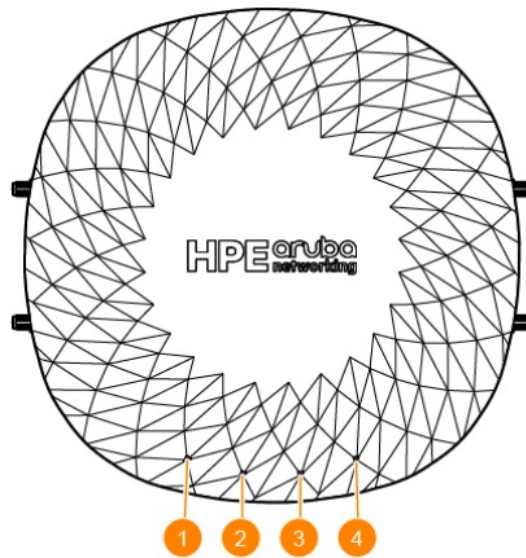
1	System Status LED
2	2 GHz Radio Status LED
3	5 GHz Radio Status LED
4	6 GHz Radio Status LED

External Antenna Connectors

The AP-734/AP-734A access point has two sets of two external RP-SMA female antenna connectors.

- First set (labeled as A0 and A1): 2.4GHz and 5GHz
- Second set (labeled as B0 and B1): 6GHz

⚠️ **CAUTION** External antennas for this device must be installed by a professional installer, using manufacturer-approved antennas only. The Equivalent Isotropically Radiated Power (EIRP) levels for all external antenna devices must not exceed the regulatory limit set by the host country/domain. Installers are required to record the antenna gain for this device in the system management software. A list of approved antennas can be found in the ordering guide at https://www.arubanetworks.com

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Figure 2 AP-735/AP-735A Front View

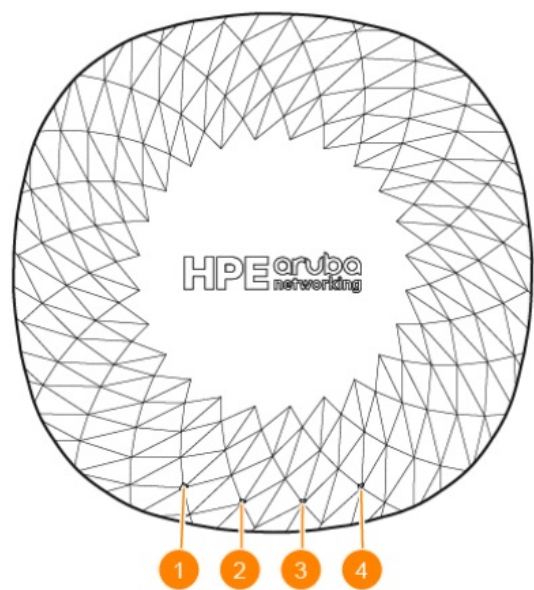| 1	System Status LED
2	2 GHz Radio Status LED
3	5 GHz Radio Status LED
4	6 GHz Radio Status LED

Figure 3 AP-735/AP-735A Back View
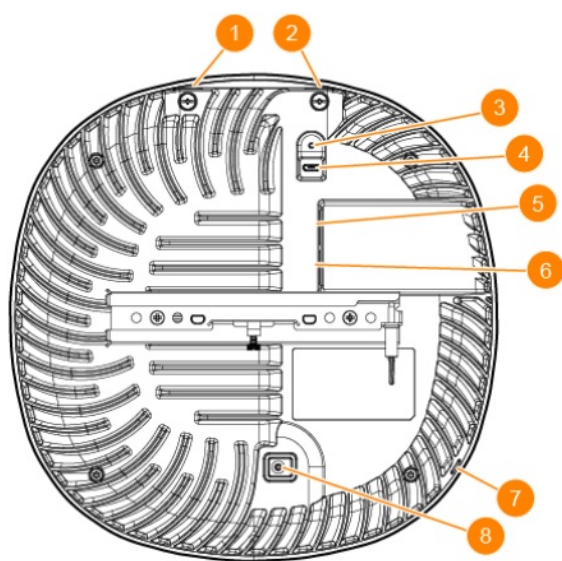
1	USB-A Port (U0)

2	USB-A Port (U1)
3	Reset Button
4	Micro-B Console Port
5	E0 Ethernet Port
6	E1 Ethernet Port
7	Kensington Lock Slot
8	DC Power Port

NOTE The ports on the back of the AP-734/AP-734A access point are the same as the ones of the AP-735/AP-735A access point.

LEDs

The LED indicators provide the system and radio status of the access point.

Table 3: System, 2 GHz, 5 GHz and 6 GHz LEDs

LEDs	Color/State	Meaning
	Off	AP Powered off
	Blinking[1] – Green	AP booting, not ready

S Y S	On – Green	AP ready, fully functional, no network restrictions
	Flashing off[2] – Green	AP ready, fully functional, uplink negotiated in sub-optimal speed (< 1 Gbps)
	On – Amber	AP ready, restricted power mode (limited PoE power available, or IPM restrictions applied), no network restrictions
	Flashing off[2] – Amber	AP ready, restricted power mode (limited PoE power available, or IPM restrictions applied), uplink negotiated in sub-optimal speed (< 1 Gbps)
	flashing on[3] – Green	AP in deep-sleep mode
	On – Red	System error condition – Immediate attention required
2 G H z	Off	AP powered off, or radio/band disabled
	On – Green	Radio enabled in access (AP) mode
	On – Amber	Radio enabled in monitor or spectrum analysis mode
	On – Blue	Radio enabled in uplink or mesh mode
5	Off	AP powered off, or radio disabled
	On – Green	Radio enabled in access (AP) mode

G H z	On – Amber	Radio enabled in monitor or spectrum analysis mode
	On – Blue	Radio enabled in uplink or mesh mode
	Alternate 4	Dual-5GHz mode; colors indicate mode per radio
6 G H z	Off	AP powered off, or radio disabled
	On – Green	Radio enabled in access (AP) mode
	On – Amber	Radio enabled in monitor or spectrum analysis mode
	On – Blue	Radio enabled in uplink or mesh mode
	Alternate 4	Dual-6GHz mode; colors indicate mode per radio

1. Blinking: one second on, one second off, 2 seconds cycle.
2. Flashing off: mostly on, fraction of a second off, 2 seconds cycle.
3. Flashing on: mostly off, fraction of a second on, 2 seconds cycle.
4. One second for first radio mode, fraction of a second off, one second for second radio mode.

LED Display Settings

The LEDs have three operating modes that can be selected in the system management software:

- Normal mode: refer to Table 3
- All LEDs off
- Blink mode: all LEDs blink green (synchronized). One second on, one second off, 2

seconds cycle.

A short press of the reset button during normal operation toggles the LED mode between "normal" and "off".

USB-A Ports

The two USB-A ports support USB 2.0 standard, and are compatible with selected cellular modems and other peripherals. When active, the two USB-A ports can supply up to 10W/2A of combined power to attached devices.

To secure a USB device to the access point, tighten the USB security screw after the USB device is plugged into the USB interface.

Figure 4 USB Security Screw
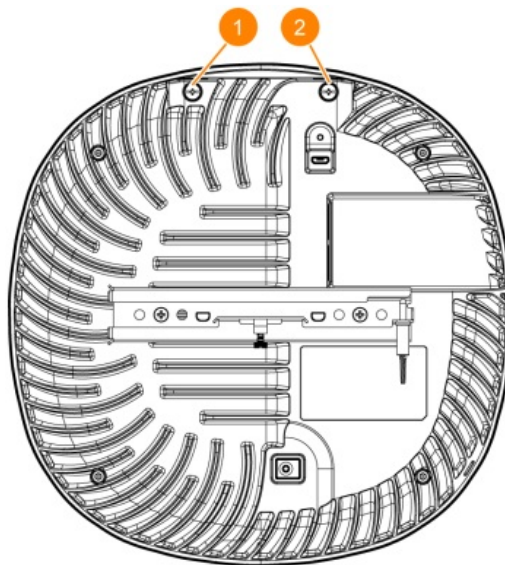
Reset Button

Use one of the following methods to reset the access point to factory default settings:

- During normal operation of the AP (system LED solid): hold the reset button for at least 10 seconds, release the reset button.
- During power up of the AP: hold the reset button for at least 20 seconds after powering up the AP, release the reset button.

Micro-B Console Port

The console port is a Micro-B connector located on the back of the access point. Use the proprietary APCBL-SERU cable (sold separately) for direct management of the access point when connected to a serial terminal or laptop.
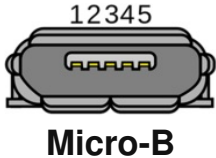
Figure 5 Micro-B Console Port Pin-out

12345 **Micro-B**	1: NC 2: RXD 3: TXD 4: GND 5: GND

Ethernet Ports

The access point is equipped with two Ethernet ports (E0 and E1). Both ports are 100/1000/2500/5000 Base-T auto-sensing MDI/MDIX, supporting 802.3af, 802.3at or 802.3bt Power over Ethernet compliance to accept power from a POE source.

Kensington Lock Slot

The AP is equipped with a Kensington lock slot for additional physical security.

Power

Both E0 and E1 ports support PoE-in (AP is a PoE-PD device), allowing the AP to draw power from a compliant PoE power source. If PoE is not available, a proprietary AP-AC2-12B power adapter (sold separately) can be used to power the access point. When both PoE and DC power sources are available, the DC power source takes precedence. In that case, the access point simultaneously draws a minimal current from the PoE source. In the event that the DC source fails, the access point switches to the PoE sources.

- When powered by DC, 802.3bt (class 5), the AP will operate without restrictions.
- When powered by 802.3at (class 4) PoE with the Intelligent Power Monitoring (IPM) feature disabled, the AP will disable the USB port.

BLE Radio Default State

When the access point is in factory default state the integrated BLE radio is enabled. This applies to the non-TAA product SKUs only. On the TAA products, the BLE radio is disabled when the unit is in factory default conditions. Once the AP has established a connection with its management platform, the BLE radio state is updated to match what's configured there. This state is maintained if the AP is power-cycled or rebooted.

Console Port Default State

When the access point is in factory default state the console interface (both physical port and BLE) is enabled with default credentials (username is "admin" and password is the serial number of the unit). Once the AP has established a connection with its management platform, the console port state (enabled/disabled) and access credentials are updated to match what's configured there. State and credentials are maintained if the AP is power-cycled or rebooted.

USB Host Interface Default State

When the access point is in factory default state the USB host interface is powered and enabled, assuming the AP is not in a restricted power mode. On some AP models the USB port may be disabled when a POE source with insufficient power budget is used. Once the AP has established a connection with its management platform, the USB host interface state is updated to match what's configured there. This state is maintained if the AP is power-cycled or rebooted.

Chapter 3
Installation

Pre-Installation Checklist

Before installing the access point, be sure 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
- Compatible antenna(s) when installing AP-734/AP-734A

Some optional items:

- A compatible power adapter with power cord
- A compatible PoE midspan injector with power cord
- An AP-CBL-SERU console cable

Also, make sure at least one of the following network services is supported:

- HPE Aruba Networking Discovery Protocol (ADP)
- DNS server with an "A" record
- DHCP Server with vendor specific options

⚠️ **CAUTION** Access points are radio transmission devices and as such are subject to governmental regulation. Network administrators responsible for the configuration and operation of access points must comply with local broadcast regulations. Specifically, access points must use channel assignments appropriate to the location in which the access point will be used.

Identifying Specific Installation Locations

Use the access point placement map generated by HPE Aruba Networking 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:

- Other Wi-Fi networks
- Microwave ovens
- Bluetooth devices

Access Point Installation

The HPE Aruba Networking 730 Series Campus Access Points are designed for ceiling, or wall mounted deployments. HPE Aruba Networking provides several mount kits to use with the access points. These mount kits are available as accessories and must be ordered separately. Refer to the HPE Aruba Networking 730 Series Campus Access Points ordering guide at https://www.arubanetworks.com.

- All HPE Aruba Networking 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** 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).

Software

For instructions on choosing operating modes and initial software configuration, refer to the [AP Software Quick Start Guide](#).

⚠️ **CAUTION** HPE Aruba Networking access points are classified as radio transmission devices, and are subject to government regulations of the host country. The network administrator(s) is/are responsible for ensuring that configuration and operation of this equipment is in compliance with their country's regulations. For a complete list of approved channels in your country, refer to the [HPE Aruba Networking Downloadable Regulatory Table](#).

Verifying Post-Installation Connectivity

The integrated LED on the access point can be used to verify that the access point access point is receiving power and initializing successfully. Refer to the [AP Software Quick Start Guide](#) for further details on verifying post-installation network connectivity.

Chapter 4
Specifications, Safety, and Compliance

This chapter provides an overview of the HPE Aruba Networking 730 Series Campus Access Points specifications, safety, and compliance information.

Electrical

- Ethernet
    - E0 and E1 ports: 100/1000/2500/5000 Base-T auto-sensing MDI/MDX wired RJ45 network connectivity port, supporting 802.3at or 802.3bt Power over Ethernet compliance .
- Power
    - 12V DC power interface, support powering through AC-to-DC power adapter
    - PoE-PD: 802.3at or 802.3bt PoE

Environmental

- Operating
    - Temperature: 0°C to +50°C (+32°F to +122°F)
    - Relative Humidity: 5% to 95%
- Storage
    - Temperature: -25°C to +55°C (-13°F to +131°F)
    - Relative Humidity: 10% – 100%
- Transportation
    - Temperature: -40°C to +70°C (-40°F to +158°F)
    - Relative Humidity: up to 95%

For additional specifications on this product, please refer to the HPE Aruba Networking 730 Series Campus Access Points data sheet.

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 Aruba Networking 730 Series Campus Access Points:

- AP-734 RMN: APIN0734
- AP-735 RMN: APIN0735
- AP-734A RMN: APIN0734A
- AP-735A RMN: APIN0735A

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
O uso deste equipamento é restrito a ambientes fechados e proibido em plataformas petrolíferas, carros, trens, embarcações e no interior de aeronaves abaixo de 3.048 m (10.000 pés).

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.

- 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 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
BLE/Zigbee	2402-2480 MHz	9 dBm
	2412-2472 MHz	20 dBm

Wi-Fi	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

UK
CA CE

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 HPE Aruba Networking.

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.

- 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 HPE Aruba Networking approved accessories. Refer to the ordering guide for this access point at https://www.arubanetworks.com

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Thailand

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/public/certificates.html.

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.

- FCC regulations restrict the operation of this device 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.
- Operation in the 5.925-7.125GHz 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.

- 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 HPE Aruba Networking Equipment

HPE Aruba Networking equipment complies with countries' national laws for proper disposal and electronic waste management.

Waste of Electrical and Electronic Equipment

 HPE Aruba Networking 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

HPE Aruba Networking products also comply with China environmental declaration requirements and are labeled with the "EFUP 50" label shown at the left.

Taiwan RoHS

Taiwan RoHS Hazardous Substances table

Turkey RoHS material content declaration

Türkiye Cumhuriyeti: AEEE Yönetmeliğine Uygundur

HPE Aruba Networking 730 Series Campus Access Points

Documents / Resources

HPE Aruba Networking 730 Series Campus Access Points Installation Guide Hewlett Packard Enterprise	[Hewlett Packard 730 Series Campus Access Points](#) [[pdf](#)] Installation Guide APIN0734, Q9DAPIN0734, 730 Series Campus Access Points, 730 Series, Campus Access Points, Access Points

References

- [User Manual](#)

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🏷 730 Series, 730 Series Campus Access Points, Access Points, APIN0734, Campus Access Points, Hewlett-Packard, Q9DAPIN0734

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