HPE Aruba Networking 630 Series Campus Access Point

Installation Guide

Hewlett Packard Enterprise

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Hewlett Packard Enterprise Company
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United States of America.

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Chapter 1
About This Guide

This document describes the hardware features of the HPE Aruba Networking 630 Series Campus Access Point. 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

- Hardware Overview provides a detailed hardware overview of the HPE Aruba Networking 630 Series Campus Access Point.
- Installation describes how to install the HPE Aruba Networking 630 Series Campus Access Point .
- Specifications, Safety, and Compliance lists the HPE Aruba Networking 630 Series Campus Access Point's technical specifications and safety and regulatory compliance information.

Related Documentation

You require the following documents for the complete management of HPE Aruba Networking access point.

- 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	asp.arubanetworks.com
Airheads Social Forums and Knowledge 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 630 Series Campus Access Point 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, delivering high performance and capacity with MIMO (Multiple-Input, Multiple-Output) and OFDMA (Orthogonal Frequency Division Multiple Access) technologies, while also supporting IEEE 802.11a/b/g/n/ac 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 630 Series Campus Access Point	1

NOTE

The AP mount bracket attaches to a variety of mount kits (sold separately). Refer to the HPE Aruba Networking 630 Series Campus Access Point ordering guide for details.

Front View

Figure 1 *AP-635 Front View*

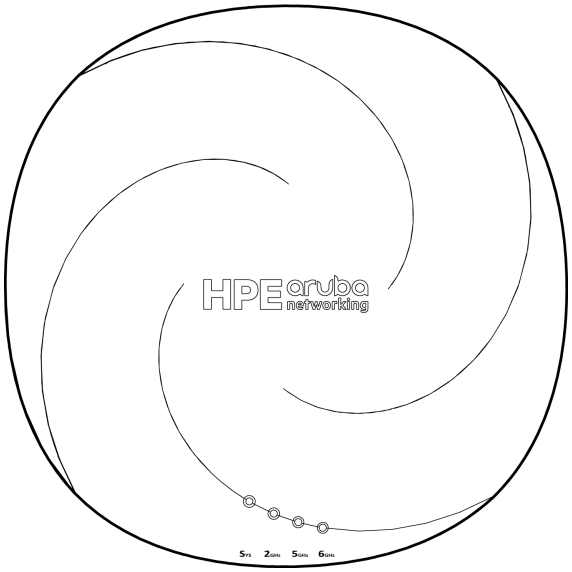
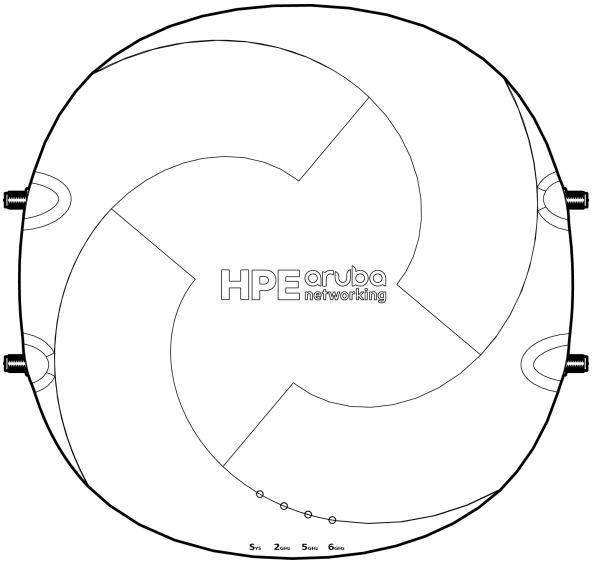


Figure 2 *AP-634 Front View*



External Antenna Connectors

The AP-634 access point has two sets of two RP-SMA female connectors for external antennas:

- First set (labeled as A0 and A1): 2.4GHz and 5GHz, combined (diplexed)
- 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/resource/aruba-630-series-campus-access-points-ordering-guide

Les antennes externes pour cet appareil doivent être installées par un professionnel agréé, en utilisant uniquement des antennes approuvées par le fabricant. Les niveaux équivalents de puissance à rayonnement isotrope (EIRP) pour tous les périphériques d'antenne externe ne doivent pas dépasser la limite réglementaire définie par le pays hôte / domaine. Les installateurs doivent enregistrer le gain d'antenne pour cet appareil dans le logiciel de gestion du système. Une liste d'antennes approuvées peut être trouvée à https://www.arubanetworks.com/resource/aruba-630-series-campus-access-points-ordering-guide

For the 6 GHz band, the AP-634 is approved in the US (5925-6425 MHz and 6525-6875 MHz) and Canada (5925-6875 MHz) for Standard Power operations (in conjunction with an Automated Frequency Coordination [AFC] system).

LEDs

The LED indicators located on the front cover of the access point indicate the following functions:

System Status LED

The System Status LED indicates the operating condition of the access point.

Table 3: *System Status LED*

Color/State	Meaning
Off	Device Powered off
Green- solid	Device ready, fully functional, no network restrictions
Green- blinking [1]	Device booting, not ready
Green- flashing off [2]	Device ready, fully functional, uplink negotiated in sub-optimal speed (< 1 Gbps)
Green- flashing on[3]	Device in deep-sleep mode
Amber- solid	Device ready, restricted power mode (limited PoE power available, or IPM restrictions applied), no network restrictions
Amber- flashing off	Device ready, restricted power mode (limited PoE power available, or IPM restrictions applied), uplink negotiated in sub-optimal speed (< 1 Gbps)
Red	System error condition - Immediate attention required

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.

2GHz/5GHz/6GHz Radio Status LEDs

The 2GHz/5GHz/6GHz Radio Status LEDs indicate the operating mode of the access point's 2GHz/5GHz/6GHz radios.

Table 4: *2GHz/5GHz/6GH Radio Status LEDs*

Color/State	Meaning
Off	Device Powered off, or radio disabled
Green- solid	Radio enabled in access mode
Green- flashing off [1]	Radio enabled in uplink or mesh mode
Amber- solid	Radio enabled in monitor or spectrum analysis mode

1. Flashing off: mostly on, fraction of a second off, 2 seconds cycle.

LED Display Settings

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

- Default mode: refer to Table 3 and Table 4
- Off mode: all LEDs are off
- Blink mode: all LEDs blink green (synchronized)

To force the LEDs into off mode or back to software defined mode, press the reset button for a short duration (less than 10 seconds).

CAUTION

Pressing the reset button for longer than 10 seconds may cause the AP to reset and return to factory default state.

Back View

The ports on the back of the AP-634 access point are the same as the ones on the back of the AP-635 access point.

Figure 3 *Back View (AP-635)*

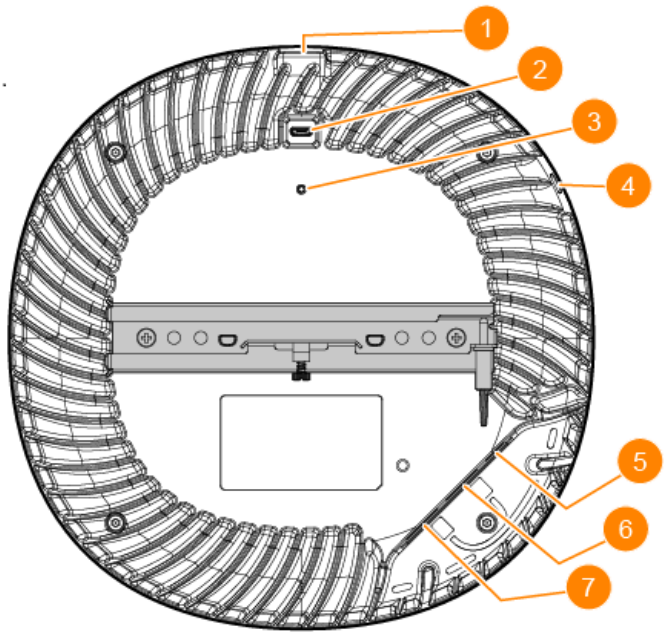


Table 5: *Ports on Back of HPE Aruba Networking 630 Series Campus Access Point*

Callout	Component
1	USB 2.0 Interface
2	Micro-B Console Port
3	Reset Button
4	Kensington Lock Slot
5	DC Jack

Callout	Component
6	E1Ethernet Port
7	E0 Ethernet Port

Bluetooth 5.0 Low Energy and 802.15.4 Radio

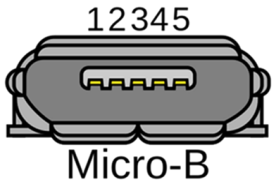
The access point is equipped with an integrated BLE 5.0 and 802.15.4 radio that provides the following capabilities:

- Location beacon applications
- Wireless console access
- IOT gateway applications

Micro-B Console Port

The console port is a Micro-B connector located on the back of the access point. Use the proprietary AP-CBL-SERU cable or AP-MOD-SERU module (sold separately) for direct management of the access point when connected to a serial terminal or laptop.

Figure 4 *Micro-B Console Port Pin-out*

	1: NC 2: RXD 3: TXD 4: GND 5: GND

Ethernet Ports

The HPE Aruba Networking 630 Series Campus Access Point is equipped with two 100/1000/2500Base-T auto-sensing MDI/MDX wired RJ45 Ethernet ports (E0 and E1). The 2.5bps speed complies with NBase-T and 802.3bz specifications. Both ports are compliant with 802.3ab 1000Base-T Gigabit Ethernet and 802.3az (Energy Efficient Ethernet) standards. Both ports support 802.3at and 802.3bt Power over Ethernet compliance to accept power from a POE source, such as a PoE midspan injector, or a network switch.

NOTE

The cable guiding features on the chassis are useful only in specific use cases, such as using the extension cables or other cables with short plugs. To use the cable guiding feature, the Ethernet cable bend radius shall be no more than 20 mm.

Kensington Lock Slot

The HPE Aruba Networking 630 Series Campus Access Point is equipped with a Kensington lock slot for additional physical security.

USB 2.0 Interface

The USB 2.0 interface located on the top of the HPE Aruba Networking 630 Series Campus Access Point is compatible with selected cellular modems and other peripherals. When active, this interface can supply up to 5W/1A to a connected device.

Reset Button

The reset button located on the bottom of the device can be used to reset the access point to factory default settings or turn off/on the LED display.

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

- To reset during normal operation, hold the reset button for more than 10 seconds while the access point is running, and then release the reset button.
- To reset during power up, hold the reset button while the access point is powering up.

The system status LED will flash again within 15 seconds indicating that the reset is completed. The access point will now continue to boot with the factory default settings.

To toggle the LED displayinto off mode or back to software defined mode, press the reset button for a short duration (less than 10 seconds).

Power

Both E0 and E1 ports support PoE-in (AP is a PoE-PD device), allowing the device to draw power from compliant PoE power sources. 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.

The Intelligent Power Monitoring (IPM) feature may also be used to manage the power consumption preferences for this device. When enabled, the user may enable/disable power restrictions for the access point using HPE Aruba Networking's AP management software. Refer to the HPE Aruba Networking 630 Series Campus Access Point datasheet for details on possible functional restrictions when the AP is powered by POE, and how IPM can help to avoid or minimize these restrictions.

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

The HPE Aruba Networking 630 Series Campus Access Point is designed for ceiling or wall mounted deployments. Several optional mount kits are available to attach the access point to a variety of surfaces. These mount kits are available as accessories and must be ordered separately. Refer to the HPE Aruba Networking 630 Series Campus Access Point ordering guide at https://www.arubanetworks.com.

CAUTION

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.

Tous les points d'accès HPE Aruba Networking 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

The installer is responsible for securing the access point onto the ceiling tile rail. Failure to properly install this product may result in physical injury and/or damage to property.

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

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.

CAUTION

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, be sure that you have the following (not included with the AP):

- 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-634

Some optional items:

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

Refer to the HPE Aruba Networking 630 Series Campus Access Point ordering guide for compatible items, quantities needed, etc.

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

NOTE

If a power adapter other than the HPE Aruba Networking-approved adapter is used in the US or Canada, it should be NRTL listed, with an output rated 12V DC, minimum 0.75A, marked “LPS” and “Class 2,” and suitable for plugging into a standard power receptacle in the US and Canada.

Identifying Specific Installation Locations

NOTE

The HPE Aruba Networking 630 Series Campus Access Point 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 AP Software Quick Start Guide.

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 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:

- 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

CAUTION

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.

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 (see Table 1-Table 2). 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 630 Series Campus Access Point specifications, safety, and compliance information.

HPE Aruba Networking 630 Series Campus Access Point Specifications

Electrical

- Ethernet
  - E0 port: 100/1000/2500Base-T auto-sensing MDI/MDX wired RJ45 network connectivity port
  - E1 port: 100/1000/2500Base-T auto-sensing MDI/MDX wired RJ45 network connectivity port
- Power
  - 12V DC power interface, support powering through AC-to-DC power adapter (AP-AC2-12B)
  - Power over Ethernet (PoE): 802.3at or 802.3bt compliant source

Environmental

- Operating
  - Temperature Range: 0 °C to 50 °C (32 °F to 122 °F)
  - Humidity Range: 5% to 95% non-condensing
- Storage and Transportation
  - Temperature Range: –25 °C to 55 °C (–13 °F to 131 °F)
  - Humidity Range: 10% to 100% non-condensing

For additional specifications on this product, please refer to the HPE Aruba Networking 630 Series Campus Access Point data sheet. The data sheet can be found at https://www.arubanetworks.com.

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 630 Series Campus Access Point:

- AP-634 RMN: APIN0634
- AP-635 RMN: APIN0635

Regulatory considerations for AP-634

The AP-634 will be offered in countries where there is an existing or clear and defined path to allow operation of 6 GHz radios with external connectorized antennas, either as a Low Power Indoor (LPI) or Standard Power (SPI)

product. Please contact your HPE Aruba Networking representative to confirm (existing or planned) availability for the country where the AP will be deployed.

Brazil

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

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).

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.

In accordance with Innovation, Science and Economic Development Canada regulations, this radio transmitter and receiver may only be used with an antenna, the maximum type and gain of which must be approved by Innovation, Science and Economic Development Canada. To reduce potential radio interference, the type of antenna and its gain shall be chosen so that the equivalent isotropic radiated power (EIRP) does not exceed the values necessary for effective communication.

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.

The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

This radio transmitter model APIN0634 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed in the HPE Aruba Networking 630 Series Campus Access Point ordering guide (link provided below) below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

https://www.arubanetworks.com/resource/aruba-630-series-campus-access-points-ordering-guide

CAUTION

Operation shall be limited to indoor use only.

CAUTION

Operation on oil platforms, cars, trains, boats, and aircraft shall be prohibited except for on large aircraft flying above 10,000 feet.

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.

Conformément à la réglementation d'Innovation, Sciences et Développement économique Canada, le présent émetteur-récepteur radio ne peut être utilisé qu'avec une antenne d'un type et d'un gain maximal approuvé par Innovation, Sciences et Développement économique Canada. Dans le but de réduire les risques d'interférence radioélectrique, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (P.I.R.E.) ne dépasse pas les valeurs nécessaires à l'établissement d'une communication efficace.

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.

Ce modèle d'émetteur radio APIN0534 a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés dans le guide de commande en ligne (lien ci-dessous) avec le gain maximal admissible indiqué. Les types d'antennes non inclus dans cette liste, ayant un gain supérieur au gain maximal indiqué pour ce type, sont strictement interdits pour une utilisation avec cet appareil.

https://www.arubanetworks.com/resource/aruba-630-series-campus-access-points-ordering-guide

CAUTION

Le fonctionnement est restreint à une utilisation à l'intérieur seulement.

CAUTION

L'utilisation sur les plateformes pétrolières ou dans les voitures, les trains, les bateaux et les avions est interdite, à l'exception des gros avions volant à plus de 3 km (10 000 pi).

EAC

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 HPE Aruba Networking approved accessories as listed in the HPE Aruba Networking 630 Series Campus Access Point ordering guide 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. Operations in the 6GHz band are blocked by firmware for some countries pending adoption of spectrum. Refer to HPE Aruba Networking DRT release notes for details.

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), Slovakia (SK), Slovenia (SL), Spain (ES), Sweden (SE), Switzerland (CH), Turkey (TR), United Kingdom (UK (NI)).

Radio	Frequency Range MHz	Max EIRP
BLE/Zigbee	2402-2480	10 dBm
Wi-Fi	2412-2472	20 dBm
	5150-5250	23 dBm
	5250-5350	23 dBm
	5470-5725	30 dBm
	5725-5850	14 dBm

NOTE

Lower power radio LAN product operating in 2.4 GHz and 5 GHz bands. Please refer to the ArubaOS User Guide/Instant User Guide for details on restrictions.

UKCA Marking

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

Japan

この装置は、クラスB機器です。この装置は、住宅環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。 VCCI ー B

Korea

Class B equipment

B급 기기 (가정용 방송통신기기)	이 기기는 가정용(B급)으로 전자파적합등록을 한 기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

Medical

1. Equipment not suitable for use in the presence of flammable mixtures.
2. Connect to only IEC 60950-1 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.

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

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 debeaceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Morocco

Peru

En el Perú, este equipo diseñado para la banda de 5 925 – 7 125 MHz, debe ser configurado para operar únicamente en interiorescon una PIRE de hasta 1 W (30 dBm) y sujeto a las Condiciones de Operación que establezca el MTC.

Philippines

NTC

Type-Approval No.
ESD-RCE-2127577

Singapore

Complies with
IDA Standards
DB100427

Taiwan

第十二條

取得審驗證明之低功率射頻器材，非經許可，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。

第十四條

低功率射頻電機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。

前項合法通信，指依電信法規定作業之無線電通信。 低功率射頻電機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。

1.應避免影響附近雷達系統之操作。

2.高增益指向性天線只得應用於固定式點對點系統

3.電磁波暴露量 MPE 標準值 1 mW/cm2, 送測產品實測值為 : 0.2044mW/cm2

Thailand

กสทช.

ผู้ใดมีไว้ในครอบครอง หรือ ใช้ซึ่งเครื่องวิทยุคมนาคมหรือตั้งสถานีวิทยุคมนาคมนี้ ต้องได้รับใบอนุญาตจากเจ้าพนักงานผู้ออกใบอนุญาต หากฝ่าฝืน มาตรา 6 หรือมาตรา 11 มีความผิดตามมาตรา 23 แห่งพระราชบัญญัติวิทยุคมนาคม พ.ศ. 2498 ต้องระวางโทษปรับไม่เกินหนึ่งแสนบาท หรือจำคุกไม่เกินห้าปี หรือทั้งปรับทั้งจำ

กสทช. โทรคมนาคม
กำกับดูแลเพื่อประชาชน
Call Center 1200 (โทรฟรี)

Ukraine

Hereby, Hewlett Packard Enterprise Company 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.

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.

CAUTION

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.

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.

CAUTION

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.

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 of or communication with unnamed aircraft systems.

Proper Disposal of HPE Aruba Networking Equipment

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

China RoHS table

产品中有害物质的名称及含量
根据中国《电器电子产品有害物质限制使用管理办法》

部件名称	限用物质及其化学符号					
	铅 (Pb)	汞 (Hg)	镉(Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
电池	O	O	O	O	O	O
传输线和网路线	O	O	O	O	O	O
断路器	X	O	O	O	O	O
冷却 & 加热系统	O	O	O	O	O	O
磁盘控制器	X	O	O	O	O	O
外部机箱	X	O	O	O	O	O
风扇	O	O	O	O	O	O
液晶显示器	X	O	O	O	O	O
硬盘 (HDD)	X	O	O	O	O	O
液压／气压系统	O	O	O	O	O	O
键盘	O	O	O	O	O	O
介质（CD/DVD/光盘驱动器）	O	O	O	O	O	O
记忆体	O	O	O	O	O	O
鼠标	O	O	O	O	O	O
其他机械组装设备	X	O	O	O	O	O
电源/电源适配器	X	O	O	O	O	O
印刷电路组件 (PCAs)	X	O	O	O	O	O
天线	X	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制

O：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下

X：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求

此表中所有名称中含 " X " 的部件均符合欧盟 RoHS 立法

注：环保使用期限的参考标识取决于产品正常工作的温度和湿度等条

除非另有标明，此电子电器产品有害物质限制使用 (EPUP) 标签适用于所有慧与公司服务器，网络，存储设备

India RoHS material content declaration

This product complies with the “India E-waste (Management) Rules, 2016” and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule II of the Rule.

Taiwan RoHS statement

台灣限用物質含有情況標示

單元	限用物質及其化學符號					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr^{+6})	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)
傳輸線和線材	O	O	O	O	O	O
外殼	—	O	O	O	O	O
記憶體	O	O	O	O	O	O
其他機械組裝設備	—	O	O	O	O	O
印刷電路零組件 (PCAs)	—	O	O	O	O	O
斷路器 (選配)	—	O	O	O	O	O
冷卻及加熱系統(選配)	O	O	O	O	O	O
風扇(選配)	O	O	O	O	O	O
存取裝置(HDD) (選配)	—	O	O	O	O	O
讀寫元件 (CD/DVD/ 磁碟機) (選配)	—	O	O	O	O	O
變壓器/電源供應器(選配)	—	O	O	O	O	O
備考 1. "O" 係指該項限用物質之百分比含量未超出百分比含量基準值。 備考 2. "—" 係指該項限用物質為排除項目。						

選配單元使用於特定產品型號，詳細規格請參照產品說明書。

Turkey RoHS material content declaration

Türkiye Cumhuriyeti: AEEE Yönetmeliğine Uygundur