



# HPE Aruba Networking 530 Series Campus Access Points

Installation Guide



**Hewlett Packard**  
Enterprise

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United States of America



HPE Aruba Networking 530 Series access points (AP-534 and AP-535) deliver high-performance concurrent 2.4 GHz and 5 GHz 802.11ax Wi-Fi functionality with 4x4 MIMO radios, while also supporting legacy 802.11a/b/g/n/ac wireless services.

Ethernet ports located on the back of this access point are used to connect the device to the wired networking infrastructure and to provide power over Ethernet (PoE) to the device (802.3at class 4 or 802.3bt class 5).

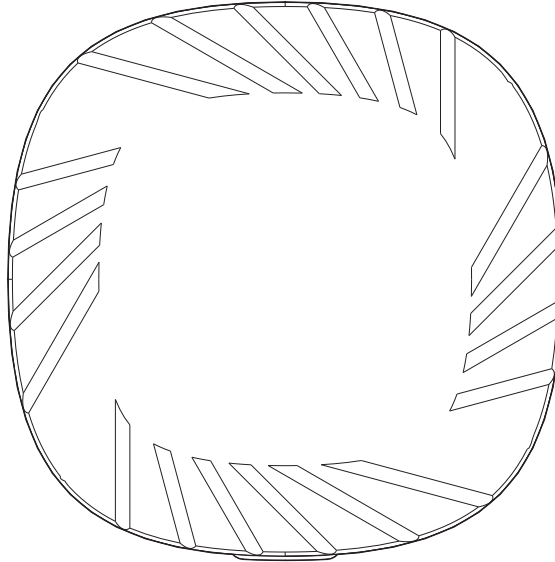
In addition to both Wi-Fi radios, these APs also incorporate a Bluetooth Low Energy (BLE) and Zigbee radio, supporting a variety of use-cases and services, such as locationing and IoT.

A variety of mounting scenarios is supported by a range of mount kits (sold separately). Make sure to purchase the correct mount kit for the intended deployment of the AP.

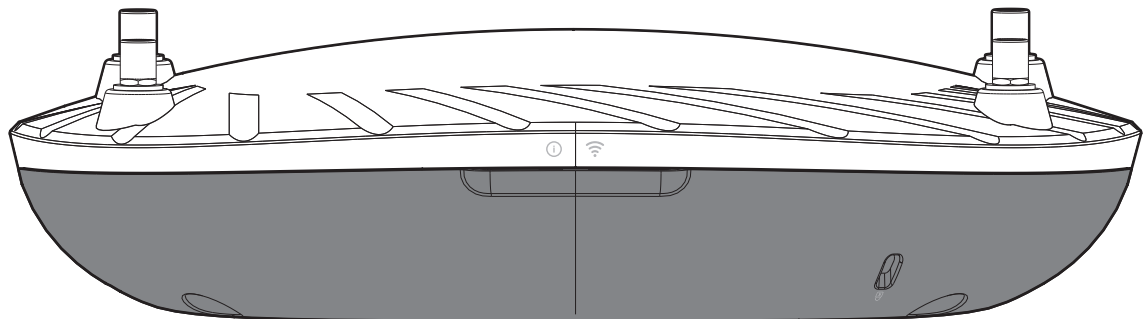
## Hardware Overview

The following sections outline the hardware components of the 530 Series access point.

**Figure 1** AP-535 (front view)



**Figure 2** AP-534 (LEDs)



### External Antenna Connectors

The AP-534 access points are equipped with four external antenna connectors located on the front corners of the access point (see [Figure 2](#)). Antenna ports A0 through A3 (corresponding with radio chains 0 through 3), are

used for both radios and bands (RF signals are diplexed).

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 at: [http://www.arubanetworks.com/assets/og/OG\\_AP-530Series.pdf](http://www.arubanetworks.com/assets/og/OG_AP-530Series.pdf).



CAUTION

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 [http://www.arubanetworks.com/assets/og/OG\\_AP-530Series.pdf](http://www.arubanetworks.com/assets/og/OG_AP-530Series.pdf).

## LEDs

The LED displays located on the front panel of the access point indicate the following functions:

### System Status

The System Status LED indicates the operating condition of the access point, See [Table 1](#).

**Table 1** System Status LEDs ⓘ

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

1 Blinking: one second on/one second off, 2 second cycle.

2 Flashing Pattern 1: mostly on, briefly off, 2 second cycle.

3 Flashing Pattern 2: mostly off, briefly on, 2 second cycle.

### Radio Status

The Radio Status LED indicates the operating mode of the access point's radios. See [Table 2](#).

**Table 2** Radio Status ⓘ

Color/State	Meaning
Off	AP powered off, or both radios disabled

Color/State	Meaning
Green- solid	Both radios enabled in access mode
Green- blinking	One radio enabled in access mode, other disabled
Amber- solid	Both radios enabled in monitor mode
Amber- blinking	One radio enabled in monitor mode, other disabled
Green/Amber- alternating <sup>1</sup>	Green: one radio in access mode Amber: one radio in monitor mode

1 Alternating: one second each color, 2 second cycle.

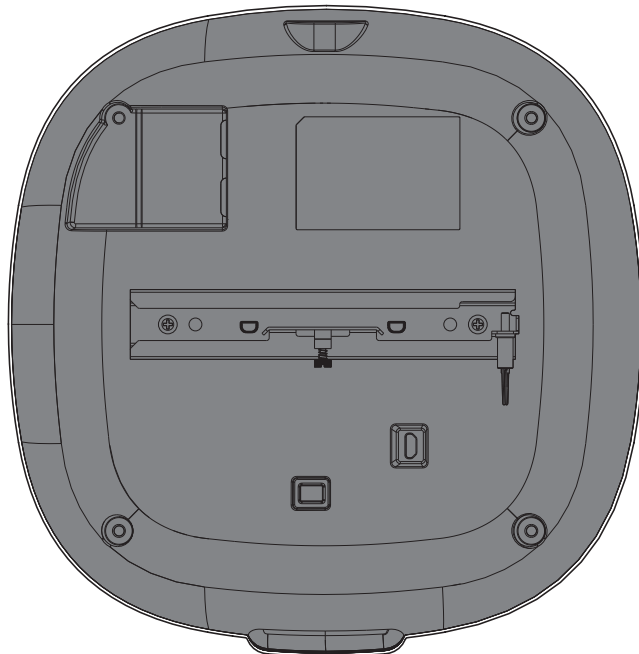
## LED Display Settings

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

- Default mode: Refer to [Table 1](#) and [Table 2](#)
- Off mode: LEDs are off
- Blink mode: LEDs blink green

Force the LEDs into off mode and back to software defined mode by pressing the reset button for a short duration. Warning: pressing the reset button for longer than 10 seconds may cause the AP to reset and return to factory default state.

**Figure 3** AP-535 access point (rear view)



## External Antenna Connectors

The AP-534 access points are equipped with four external antenna connectors located on the front corners of the access point (see [Figure 4](#)).

The antenna ports, labeled A0 through A3 (corresponding with radio chains 0, 1, 2, and 3), are used for both radios and bands (RF signals are diplexed).

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.



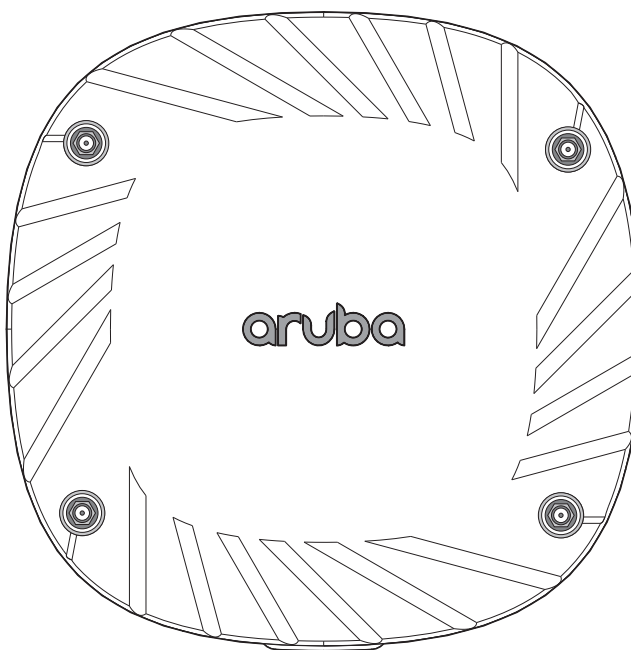
CAUTION

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.

**Figure 4** *External Antenna Connectors*



This device is intended for indoor use in professional healthcare facilities.

## Bluetooth Low Energy Radios

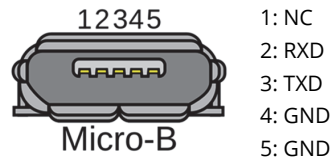
530 Series access points are equipped with an integrated BLE and Zigbee radio that provide the following capabilities:

- location and asset-tracking applications
- wireless console access
- IoT gateway applications

## Console Port

The 5-pin Micro-B connector is located on the back of this device. Use the proprietary AP-CBL-SERU cable for direct management of this device when connected to a laptop or serial console (a standard USB cable cannot be used for this interface). For pin-out details, refer to [Figure 5](#).

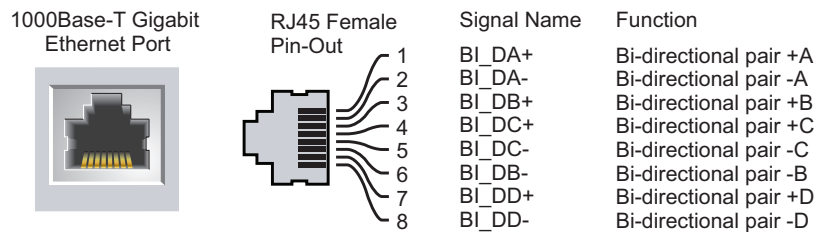
**Figure 5** *Micro-B Port Pin-out*



## Ethernet Ports

The HPE Aruba Networking 530 Series access points are equipped with two active Ethernet ports (Eth0 and Eth1), shown in [Figure 3](#). Both ports are 100/1000/2500/5000 Base-T, auto-sensing MDI/MDX, which supports uplink connectivity when linked by an Ethernet cable. Refer to [Figure 6](#) for a detailed port pin-out.

**Figure 6** *Ethernet Port Pin-Out*



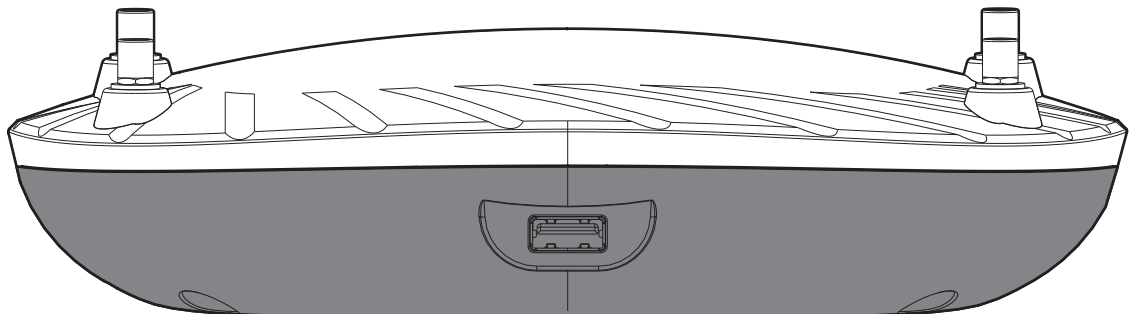
## Kensington Lock Slot

The 530 Series is equipped with a Kensington lock slot for additional physical security.

## USB Interface

The top of this access point is equipped with a USB-A host port that is compatible with cellular modems and other selected peripherals. When active, this port can supply up to 5W/1A to a connected device.

**Figure 7** *AP-534 (USB)*



## 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:
    1. Hold the reset button for more than 10 seconds while the access point is running.
    2. 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 display between Off and Blinking:

During the normal operation of the access point, shortly press and release the reset button using a small, narrow object, such as a paperclip.

## Power

Both ethernet 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, the access point has a single 48V DC power input to support the AP-AC-48V36C AC-to-DC power adapter kit (sold separately). 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(s). In the event that the DC source fails, the access point switches to the PoE source(s). If the 530 Series access point is powered by both PoE ports simultaneously, it can combine power from both sources in either shared or prioritized mode. When Eth0 is prioritized, the access point simultaneously draws a minimal current from the Eth1 source. In the event that the prioritized port fails, the access point switches to the remaining PoE source. When power is combined from both PoE sources, an approximately equivalent amount of power is drawn from each port, unless either source is hitting maximum capacity.

**Table 3** Power Restrictions

Power	Restrictions
DC Power	No restrictions
Two POE power sources, shared	No restrictions
802.3bt POE power source, any mode	No restrictions
802.3at POE source, single or prioritized	USB port disable, second (other) Ethernet port disabled. IPM feature to optimize performance and functionality when the available power budget is limited
802.3af POE source, single, prioritized, or shared	AP does not start up, red system LED

## 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 wilful 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 your HPE Aruba Networking 530 Series access point, be sure that you have the following (not included with the AP):

- A mount kit compatible with the AP and mount surface
- A Cat5E or better UTP cable with network access

Optional items:

- A compatible 48V AC-to-DC power adapter with cord
- A compatible POE midspan injector with power cord
- A compatible snap-on front cover (for easy aesthetic customization)
- 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



Hewlett-Packard Enterprise, in compliance with governmental requirements, has designed the 530 Series access points so that only authorized network administrators can change the settings. For more information about access point configuration, refer to the *Access Point Software Quick Start Guide*.

## 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:

- 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

RF Radiation Exposure Statement: This equipment complies with RF radiation exposure limits. This equipment should be installed and operated with a minimum distance of 13.78 inches (35cm) between the radiator and your body for 2.4 GHz and 5 GHz operations. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



Déclaration sur les limites d'exposition aux radiofréquences : cet équipement est conforme aux limites d'exposition aux rayonnements radioélectriques spécifiées. Il doit être installé et utilisé à une distance minimale de 35 cm par rapport à votre corps pour les fréquences de 2,4 et 5 GHz. Cet émetteur-récepteur ne doit pas être utilisé ou situé à proximité d'autres antennes ou émetteurs-récepteurs.



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.

## Access Point Installation

The HPE Aruba Networking 530 Series access points are designed for ceiling or wall-mounted deployments

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

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

For indoor use only. The access point, AC adapter, external antennas, 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* at [www.arubanetworks.com/techdocs/DRT/Default.htm](http://www.arubanetworks.com/techdocs/DRT/Default.htm).

## 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](#) and [Table 2](#)). Refer to the **Access Point Software Quick Start Guide** for further details on verifying post-installation network connectivity.

## Electrical and Environmental Specifications

For additional specifications on this product, please refer to the product data sheet at [www.arubanetworks.com](http://www.arubanetworks.com).

### Electrical

- Ethernet:
  - Eth0: 100/1000/2500/5000 Base-T auto-sensing Ethernet RJ45 interface
  - Eth1: 100/1000/2500/5000 Base-T auto-sensing Ethernet RJ45 interface
  - IEEE 802.3u (100 Base-T), IEEE 802.3ab (1000 Base-T), IEEE 802.3bz (2500/5000 Base-T)
  - Power over Ethernet IEEE 802.3bt or 802.3at 56V DC (nominal)
- Power:
  - 48V DC power interface, support powering through AC-to-DC power adapter (AP-AC-48V36C)
  - Maximum power consumption (excluding USB): Refer to datasheet



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 48V DC, minimum 0.75A, marked "LPS" and "Class 2," and suitable for plugging into a standard power receptacle in the US and Canada.

### Environmental

- Operating:

- Temperature: 0°C to +50°C (+32°F to +122°F)
- Humidity: 5% to 93% non-condensing
- Storage and transport:
  - Temperature: -40°C to +70°C (-40°F to +158°F)
  - Humidity: 5% to 93% non-condensing



For indoor use only. The access point, AC adapter, external antennas, 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).

## 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/FIPS product SKUs only. On the TAA/FIPS 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.

## Regulatory Information

For the purpose of identification needed for regulatory compliance certifications, 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 is not the marketing name or model number of the product.

- AP-535 RMN: APIN0535
- AP-534 RMN: APIN0534



Changes or modifications to this unit not expressly approved by the party responsible for regulatory 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.

## Brazil

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

## Industry Canada

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

In accordance with Industry 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 Industry 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 complies with Industry Canada's license-exempt RSS regulations. 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 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.

This radio transmitter model APIN0534 has been approved by Industry Canada to operate with the antenna types listed in the online ordering guide (link provided below) with the maximum permissible gain indicated. Antenna types not included in this list, having a greater gain than the maximum gain indicated for that type, are strictly prohibited for use with this device. [www.arubanetworks.com/assets/og/OG\\_AP-530Series.pdf](http://www.arubanetworks.com/assets/og/OG_AP-530Series.pdf)

## Déclaration d'Industrie Canada

Cet appareil numérique de classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Conformément aux réglementations d'Industrie Canada, cet émetteur et récepteur radio ne peut être utilisé qu'avec une antenne dont le type et le gain maximum doivent être approuvés par Industrie Canada. Pour réduire les éventuelles interférences radio, le type d'antenne et son gain doivent être choisis de manière à ce que la puissance rayonnée isotrope équivalente (PIRE) ne dépasse pas les valeurs nécessaires à une communication efficace.

Ce périphérique est conforme aux règlements RSS exempts de licence d'Industrie Canada. L'utilisation de ce périphérique est soumise 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.

En cas d'utilisation dans la plage de fréquences de 5,15 à 5,25 GHz, cet appareil doit uniquement être utilisé en intérieur afin de réduire les risques d'interférence avec les systèmes satellites mobiles partageant 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. [www.arubanetworks.com/assets/og/OG\\_AP-530Series.pdf](http://www.arubanetworks.com/assets/og/OG_AP-530Series.pdf).

## European Union Regulatory Conformity

The Declaration of Conformity made under RED 2014/53/EU is available for viewing at: [www.hpe.com/eu/certificates](http://www.hpe.com/eu/certificates). Find and select the document that corresponds to your device's model number as it is indicated on the product label.

This radio transmitter model has been approved to operate with the antenna types listed in the online ordering guide (link provided below) with the maximum permissible gain indicated. Antenna types not included in this list, having a greater gain than the maximum gain indicated for the type, are strictly prohibited for use with this device. Compliance is only assured if the HPE Aruba Networking approved accessories as listed in the ordering guide are used. [www.arubanetworks.com/assets/og/OG\\_AP-530Series.pdf](http://www.arubanetworks.com/assets/og/OG_AP-530Series.pdf).

## 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).

Table 4 RF Power Limits

Radio	Frequency Range MHz	Max EIRP	Receiver Bandwidth	Modulation
BLE/Zigbee	2402-2480	9 dBm	2MHz	GFSK, OQPSK
Wi-Fi	2412-2472	20 dBm	20 and 40MHz	CCK, OFDM, OFDMA
	5150-5250	23 dBm	20, 40, 80, 160MHz	OFDM, OFDMA
	5250-5350	23 dBm	20, 40, 80, 160MHz	OFDM, OFDMA
	5470-5725	30 dBm	20, 40, 80, 160MHz	OFDM, OFDM
	5725-5850	14 dBm	20, 40, 80MHz	OFDM, OFDMA



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

## Japan

ご使用になっている装置に VCCI マークが付いていましたら、次の説明文をお読み下さい。

この装置は、クラス B 情報技術装置です。この装置は、家庭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-B

## Korean

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

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Este equipo ha sido diseñado para operar con las antenas que enseguida se enlistan, en el punto 3 de: [https://www.arubanetworks.com/assets/og/OG\\_AP-530Series.pdf](https://www.arubanetworks.com/assets/og/OG_AP-530Series.pdf) y para una ganancia máxima de antena de 8.5 dBi.

El uso con este equipo de antenas no incluidas en esta lista o que tengan una ganancia mayor que 8.5 dBi quedan prohibidas. La impedancia requerida de la antena es de 50 ohms.

## Morocco



## Oman

### AP-534



### AP-535



## Philippines

### AP-534



NTC

Type-Approval No.  
ESD-1919798C

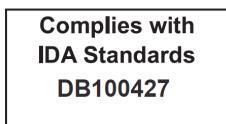
### AP-535



NTC

Type-Approval No.  
ESD-1919819C

## Singapore



## Нормативные требования Евразийского Экономического Союза

### Russia



HPE Russia: ООО "Хьюлетт Паккард Энтерпрайз" Российская Федерация, 125171, г. Москва, Ленинградское шоссе, 16А, стр.3, Телефон: +7 499 403 4248 Факс: +7 499 403 4677

'HPE Belarus': ИООО «Хьюлетт-Паккард Бел», Республика Беларусь, 220030, г. Минск, ул. Интернациональная, 36-1, Телефон/факс: +375 17 392 28 20

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

## Kazakhstan

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## Taiwan

### Taiwan RoHS Hazardous Substances table

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(VI))	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)
傳輸線和網路線	○	○	○	○	○	○
斷路器	—	○	○	○	○	○
冷卻及加熱系統	○	○	○	○	○	○
磁碟控制器	—	○	○	○	○	○
外殼	—	○	○	○	○	○
風扇	○	○	○	○	○	○
液晶顯示器	—	○	○	○	○	○
存取裝置(HDD)	—	○	○	○	○	○
液壓/氣壓系統	○	○	○	○	○	○
鍵盤	○	○	○	○	○	○
影音設備 (CD/DVD/光碟機)	○	○	○	○	○	○
記憶體	○	○	○	○	○	○
滑鼠	○	○	○	○	○	○
其他機械組裝設備	—	○	○	○	○	○
變壓器/電源供應器	—	○	○	○	○	○
印刷電路零組件 (PCAs)	—	○	○	○	○	○
無線網路線	—	○	○	○	○	○

備考1. "○" 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。

第十二條 經型式認證合格之低功率射頻電機，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。

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/cm<sup>2</sup>，送測產品實測值為：0.552 mW/cm<sup>2</sup>

警告使用者：

此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻擾動，在此種情況下，使用者會被要求採取某些適當的對策。

## United States

This equipment has been tested and found to comply with the limits for a Class A 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 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 into an outlet on a circuit that is different from that to which the receiver is connected. Consult the dealer or an experienced radio or television 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.

## Medical

1. Equipment not suitable for use in the presence of flammable mixtures.
2. Wipe with a dry cloth, no additional maintenance required.
3. No serviceable parts, the unit must be sent back to the manufacturer for repair.
4. When deployed in medical environments, it must be inaccessible to patients. It must not be installed in areas of high electromagnetic disturbances, such as active HF surgical equipment or in the shielded rooms of magnetic resonance imaging.
5. This device has no IEC/EN60601-1-2 essential performance.
6. Compliance is based on the use of HPE Aruba Networking approved accessories. Refer to the buyer's guide.
7. No modifications are allowed without HPE Aruba Networking approval.

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.

This product complies with Emissions - CISPR11/EN55011, Group 1, Class A.

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Use of this equipment adjacent to or stacked with other equipment should be avoided because it would 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.

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CAUTION

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

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

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NOTE

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The emissions characteristics of the equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.

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## Immunity

- Electrostatic discharge: +/-8kV contact/ +/-15kV air
- Radiated RF EM fields: 80MHz - 2.7GHz, 3V/m
- Proximity fields from RF wireless communication equipment: per Table 9 of the IEC/EN 606-1-2
- Rater power frequency magnetic fields: 30A/m
- Electrical Fast Transients: +/-2kV
- Surges (line-to-line): +/- 0.5, 1.0
- Surges (line-to-ground: +/- 0.5, 1.0, 2kV
- Conducted disturbances induced by RF fields: 0.15MHz-80MHz, 3Vrms, 6Vrms in ISM bands



- Voltage Dips: 0%, 0.5 cycles, 0%, 1 cycle, 70% 25/30 cycles
- Voltage Interruptions: 0% 250/300 cycles

## Contacting Support

Main Site	<a href="https://www.arubanetworks.com">https://www.arubanetworks.com</a>
Support Site	<a href="https://networkingsupport.hpe.com/home">https://networkingsupport.hpe.com/home</a>
Airheads Social Forums and Knowledge Base	<a href="https://community.arubanetworks.com">https://community.arubanetworks.com</a>
North America Telephone	1-800-943-4526 1-408-754-1200
International Telephone	<a href="https://www.arubanetworks.com/support-services/contact-support">https://www.arubanetworks.com/support-services/contact-support</a>
Software Licensing Site	<a href="https://lms.arubanetworks.com">https://lms.arubanetworks.com</a>
End-of-Life Information	<a href="https://www.arubanetworks.com/support-services/end-of-life/">https://www.arubanetworks.com/support-services/end-of-life/</a>
Security Incident Response Team (SIRT)	<a href="https://www.arubanetworks.com/support-service/security-bulletins/">https://www.arubanetworks.com/support-service/security-bulletins/</a> Email: <a href="mailto:aruba-sirt@hpe.com">aruba-sirt@hpe.com</a>