

# HPE Aruba Networking 510 Series Campus Access Points



## What's new

- Wi-Fi 6 AP provides up to 2.69 Gbps maximum combined data rate
- The 510 series supports OFDMA for enhanced multi-user efficiency, and WPA3 and Enhanced Open for greater security
- IoT-ready with Bluetooth 5 and Zigbee support and fast wired connections with 2.5 Gbps Ethernet and 1 Gbps Ethernet ports
- It has client and RF optimization to match clients with the optimal AP and reduce coverage gaps
- Dynamic segmentation and policy enforcement firewalls (PEF) automatically enforce consistent

## Overview

The HPE Aruba Networking 510 Series Campus Access Points deliver Wi-Fi 6 coverage ideal for office spaces, training and meeting facilities, and hospitals. With 2.69 Gbps maximum combined data rate, multi-gigabit Ethernet for fast wired connectivity, and built-in Internet of Things (IoT) radio, the 510 series delivers reliable, high-performance WiFi CERTIFIED® for medium density campus environments.

The 510 series can be deployed using zero touch provisioning (ZTP) for ease of implementation at remote locations. It is Wi-Fi and supports 802.11ax features: OFDMA for multi-user efficiency, target wake time (TWT) to extend the battery life of connected IoT devices, and WPA3 and Enhanced Open for greater password and guest security. The 510 series includes a limited lifetime warranty.

policies across wired and wireless networks, enhancing user and device security

- It is offered in optional eco-friendly 10-packs

## Features

### Wi-Fi 6 Performance Ideal for Campus Deployment

The HPE Aruba Networking 510 Series Campus Access Points deliver a maximum combined data rate of 2.69 Gbps with up to 4 spatial streams (4SS) and 160 MHz channel bandwidth (VHT160).

The 510 series supports Wi-Fi 6 features such as OFDMA, MU-MIMO, and target wait time (TWT) to drive improved efficiency. It handles multiple Wi-Fi 6 capable clients on each channel simultaneously, regardless of device or traffic type.

Enhanced wireless experience with HPE Aruba Networking ClientMatch technology removes sticky client issues by steering a client to the AP where it receives the strong radio signal.

It supports fast wired connections with 2.5 Gbps Ethernet and 1 Gbps Ethernet ports.

### Cloud Management and Ready for IoT

HPE Aruba Networking 510 Series Campus Access Points can be managed with HPE Aruba Networking Central, an AI-powered solution that simplifies IT operations, improves agility, and reduces costs by unifying management of campus, branch, remote, data center, and IoT networks from one dashboard.

The 510 series includes an integrated Bluetooth 5 and 802.15.4 radio (for Zigbee support) to simplify deploying and managing IoT-based location services, asset tracking services, security solutions and IoT sensors.

The target wake time (TWT) improves battery life of IoT devices.

HPE Aruba Networking Central client insights uses deep packet inspection to provide additional context and behavioral information that help verify devices are receiving proper policy enforcement and continuously monitor for rogue devices.

### Simple and Secure Access

HPE Aruba Networking 510 Series Campus Access Points offer enhanced security with dynamic segmentation to remove the time-consuming and error-prone task of managing complex and static VLANs, ACLs, and subnets by dynamically assigning policies and keeping traffic protected and separated.

It offers stronger encryption and authentication with WPA3, protected credentials/keys storage for guest access with Enhanced Open (OWE), and user and IoT access policy enforcement firewalls.

WPA3 and Enhanced Open (OWE) security increase enterprise-level security by providing stronger guest access protections without increasing complexity.

For enhanced device assurance, the APs include an installed trusted platform module (TPM) for protected storage of credentials and keys, and boot code.

Technical specifications	HPE Aruba Networking 510 Series Campus Access Points
<b>Deployment</b>	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6 (802.11ax)
<b>Wi-Fi radios</b>	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)
<b>Radio configuration options</b>	2.4 GHz, 5 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps
<b>Wi-Fi antenna</b>	HPE Aruba Networking 510 Series Campus Access Points models: AP-514: Four (female) RP-SMA connectors for external dual-band antennas AP-515: Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO (2x2 MIMO for 2.4 GHz) MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the AP. The downtilt angle gain is roughly 30°.
<b>Ultra tri-band (UTB) filtering</b>	No
<b>IoT support</b>	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0
<b>Integrated sensor</b>	No
<b>Location services</b>	802.11 FTM support
<b>Cellular support</b>	USB LTE modem (sold separately)
<b>Wired network interface</b>	1 x 2.5GbE, 1 x 1GbE
<b>MACsec support</b>	No
<b>AP operating system support</b>	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.
<b>AP management</b>	On-premises Public Cloud Virtual Private Cloud (VPC) as a Service
<b>Certifications</b>	UL2043 plenum rating Bluetooth SIG Wi-Fi Alliance®: Wi-Fi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location

<b>Regulatory</b>	<p>FCC/ISED                  CE Marked                  RED Directive 2014/53/EU                  EMC Directive 2014/30/EU                  Low Voltage Directive 2014/35/EU                  UL/IEC/EN 62368-1                  EN 60601-1-1, EN60601-1-2                  Railway Certs (AP-515 only):                  EN 50155:2017-Railway Applications                  EN 50121-1:2017-Railway EMC                  EN 50121-3-2-Railway EMC                  EN 50121-4:2016-Railway Immunity                  IEC 61373 ed2:2008-Railway Shock and Vibration                  For more country-specific regulatory information and approvals, contact your HPE representative.</p>
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration.
<b>Weight</b>	810 g
<b>Product dimensions</b>	46 x 200 x 200 mm
<b>Ports</b>	<p>E0: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps)                  E1: 10/100/1000BASE-T Ethernet network interface (RJ-45)                  USB 2.0 host interface (Type A connector)                  Serial console interface (proprietary, micro-B USB physical jack)                  Kensington security slot</p>

## SKU comparison

	HPE Aruba Networking AP-514 (EG) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP (Q9H54A)	HPE Aruba Networking AP-514 (EG) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP (Q9H64A)	HPE Aruba Networking AP-514 (IL) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP (Q9H55A)
<b>Deployment</b>	Indoor	Indoor	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)
<b>Wi-Fi radios</b>	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)
<b>Radio configuration options</b>	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps
<b>Wi-Fi antenna</b>	Four RP-SMA connectors for external dual-band antennas.	Four RP-SMA connectors for external dual-band antennas.	Four RP-SMA connectors for external dual-band antennas.
<b>Ultra tri-band (UTB) filtering</b>	No	No	No
<b>IoT support</b>	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0
<b>Integrated sensor</b>	No	No	No
<b>Location services</b>	802.11 FTM support	802.11 FTM support	802.11 FTM support
<b>Cellular support</b>	USB LTE modem (sold separately)	USB LTE modem (sold separately)	USB LTE modem (sold separately)
<b>Wired network interface</b>	1 x 2.5GbE, 1 x 1GbE	1 x 2.5GbE, 1 x 1GbE	1 x 2.5GbE, 1 x 1GbE
<b>MACsec support</b>	No	No	No
<b>AP operating system support</b>	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.
<b>AP management</b>	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service

	HPE Aruba Networking AP-514 (EG) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP (Q9H54A)	HPE Aruba Networking AP-514 (EG) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP (Q9H64A)	HPE Aruba Networking AP-514 (IL) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP (Q9H55A)
<b>Certifications</b>	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location
<b>Regulatory</b>	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.
<b>Ports</b>	E0: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot	E0: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot	E0: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot

	HPE Aruba Networking AP-514 (IL) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP (Q9H65A)	HPE Aruba Networking AP-514 (JP) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP (Q9H56A)	HPE Aruba Networking AP-514 (JP) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP (Q9H66A)
<b>Deployment</b>	Indoor	Indoor	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)
<b>Wi-Fi radios</b>	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)
<b>Radio configuration options</b>	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps
<b>Wi-Fi antenna</b>	Four RP-SMA connectors for external dual-band antennas.	Four RP-SMA connectors for external dual-band antennas.	Four RP-SMA connectors for external dual-band antennas.
<b>Ultra tri-band (UTB) filtering</b>	No	No	No
<b>IoT support</b>	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0
<b>Integrated sensor</b>	No	No	No
<b>Location services</b>	802.11 FTM support	802.11 FTM support	802.11 FTM support
<b>Cellular support</b>	USB LTE modem (sold separately)	USB LTE modem (sold separately)	USB LTE modem (sold separately)
<b>Wired network interface</b>	1 x 2.5GbE, 1 x 1GbE	1 x 2.5GbE, 1 x 1GbE	1 x 2.5GbE, 1 x 1GbE
<b>MACsec support</b>	No	No	No
<b>AP operating system support</b>	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.
<b>AP management</b>	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service
<b>Certifications</b>	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location

	HPE Aruba Networking AP-514 (IL) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP (Q9H65A)	HPE Aruba Networking AP-514 (JP) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP (Q9H56A)	HPE Aruba Networking AP-514 (JP) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP (Q9H66A)
<b>Regulatory</b>	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.
<b>Ports</b>	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot

	HPE Aruba Networking AP-514 (RW) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP (Q9H57A)	HPE Aruba Networking AP-514 (RW) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP (Q9H67A)	HPE Aruba Networking AP-514 (US) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP (Q9H58A)
<b>Deployment</b>	Indoor	Indoor	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)
<b>Wi-Fi radios</b>	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)
<b>Radio configuration options</b>	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps
<b>Wi-Fi antenna</b>	Four RP-SMA connectors for external dual-band antennas.	Four RP-SMA connectors for external dual-band antennas.	Four RP-SMA connectors for external dual-band antennas.
<b>Ultra tri-band (UTB) filtering</b>	No	No	No
<b>IoT support</b>	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0
<b>Integrated sensor</b>	No	No	No
<b>Location services</b>	802.11 FTM support	802.11 FTM support	802.11 FTM support
<b>Cellular support</b>	USB LTE modem (sold separately)	USB LTE modem (sold separately)	USB LTE modem (sold separately)
<b>Wired network interface</b>	1 x 2.5GbE, 1 x 1GbE	1 x 2.5GbE, 1 x 1GbE	1 x 2.5GbE, 1 x 1GbE
<b>MACsec support</b>	No	No	No
<b>AP operating system support</b>	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.
<b>AP management</b>	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service
<b>Certifications</b>	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location

	HPE Aruba Networking AP-514 (RW) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP (Q9H57A)	HPE Aruba Networking AP-514 (RW) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP (Q9H67A)	HPE Aruba Networking AP-514 (US) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP (Q9H58A)
<b>Regulatory</b>	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.
<b>Ports</b>	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot

	HPE Aruba Networking AP-514 (US) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP (Q9H68A)	HPE Aruba Networking AP-515 (EG) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP (Q9H59A)	HPE Aruba Networking AP-515 (EG) TAA Dual Radio 4x4/2x2 802.11ax Internal Ants Unified Campus AP (Q9H69A)
<b>Deployment</b>	Indoor	Indoor	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)
<b>Wi-Fi radios</b>	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)
<b>Radio configuration options</b>	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps
<b>Wi-Fi antenna</b>	Four RP-SMA connectors for external dual-band antennas.	Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 4.2 dBi in 2.4 GHz and 7.5 dBi in 5 GHz.	Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 4.2 dBi in 2.4 GHz and 7.5 dBi in 5 GHz.
<b>Ultra tri-band (UTB) filtering</b>	No	No	No
<b>IoT support</b>	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0
<b>Integrated sensor</b>	No	No	No
<b>Location services</b>	802.11 FTM support	802.11 FTM support	802.11 FTM support
<b>Cellular support</b>	USB LTE modem (sold separately)	USB LTE modem (sold separately)	USB LTE modem (sold separately)
<b>Wired network interface</b>	1 x 2.5GbE, 1 x 1GbE	1 x 2.5GbE, 1 x 1GbE	1 x 2.5GbE, 1 x 1GbE
<b>MACsec support</b>	No	No	No
<b>AP operating system support</b>	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.
<b>AP management</b>	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service
<b>Certifications</b>	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location

	HPE Aruba Networking AP-514 (US) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP (Q9H68A)	HPE Aruba Networking AP-515 (EG) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP (Q9H59A)	HPE Aruba Networking AP-515 (EG) TAA Dual Radio 4x4/2x2 802.11ax Internal Ants Unified Campus AP (Q9H69A)
<b>Regulatory</b>	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.
<b>Ports</b>	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot

	HPE Aruba Networking AP-515 (ID) Dual Radio 4x4/2x2 802.11ax Internal Antennas Campus Access Point (S5D86A)	HPE Aruba Networking AP-515 (IL) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP (Q9H60A)	HPE Aruba Networking AP-515 (IL) TAA Dual Radio 4x4/2x2 802.11ax Internal Ants Unified Campus AP (Q9H70A)
<b>Deployment</b>	Indoor	Indoor	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)
<b>Wi-Fi radios</b>	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)
<b>Radio configuration options</b>	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps
<b>Wi-Fi antenna</b>	Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 4.2 dBi in 2.4 GHz and 7.5 dBi in 5 GHz.	Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 4.2 dBi in 2.4 GHz and 7.5 dBi in 5 GHz.	Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 4.2 dBi in 2.4 GHz and 7.5 dBi in 5 GHz.
<b>Ultra tri-band (UTB) filtering</b>	No	No	No
<b>IoT support</b>	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0
<b>Integrated sensor</b>	No	No	No
<b>Location services</b>	802.11 FTM support	802.11 FTM support	802.11 FTM support
<b>Cellular support</b>	USB LTE modem (sold separately)	USB LTE modem (sold separately)	USB LTE modem (sold separately)
<b>Wired network interface</b>	1 x 2.5GbE, 1 x 1GbE	1 x 2.5GbE, 1 x 1GbE	1 x 2.5GbE, 1 x 1GbE
<b>MACsec support</b>	No	No	No
<b>AP operating system support</b>	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.
<b>AP management</b>	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service
<b>Certifications</b>	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location

	HPE Aruba Networking AP-515 (ID) Dual Radio 4x4/2x2 802.11ax Internal Antennas Campus Access Point (S5D86A)	HPE Aruba Networking AP-515 (IL) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP (Q9H60A)	HPE Aruba Networking AP-515 (IL) TAA Dual Radio 4x4/2x2 802.11ax Internal Ants Unified Campus AP (Q9H70A)
<b>Regulatory</b>	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.
<b>Ports</b>	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot

	HPE Aruba Networking AP-515 (JP) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP (Q9H61A)	HPE Aruba Networking AP-515 (JP) TAA Dual Radio 4x4/2x2 802.11ax Internal Ants Unified Campus AP (Q9H71A)	HPE Aruba Networking AP-515 (RW) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP (Q9H62A)
<b>Deployment</b>	Indoor	Indoor	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)
<b>Wi-Fi radios</b>	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)
<b>Radio configuration options</b>	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps
<b>Wi-Fi antenna</b>	Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 4.2 dBi in 2.4 GHz and 7.5 dBi in 5 GHz.	Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 4.2 dBi in 2.4 GHz and 7.5 dBi in 5 GHz.	Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 4.2 dBi in 2.4 GHz and 7.5 dBi in 5 GHz.
<b>Ultra tri-band (UTB) filtering</b>	No	No	No
<b>IoT support</b>	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0
<b>Integrated sensor</b>	No	No	No
<b>Location services</b>	802.11 FTM support	802.11 FTM support	802.11 FTM support
<b>Cellular support</b>	USB LTE modem (sold separately)	USB LTE modem (sold separately)	USB LTE modem (sold separately)
<b>Wired network interface</b>	1 x 2.5GbE, 1 x 1GbE	1 x 2.5GbE, 1 x 1GbE	1 x 2.5GbE, 1 x 1GbE
<b>MACsec support</b>	No	No	No
<b>AP operating system support</b>	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.
<b>AP management</b>	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service
<b>Certifications</b>	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location

	HPE Aruba Networking AP-515 (JP) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP (Q9H61A)	HPE Aruba Networking AP-515 (JP) TAA Dual Radio 4x4/2x2 802.11ax Internal Ants Unified Campus AP (Q9H71A)	HPE Aruba Networking AP-515 (RW) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP (Q9H62A)
<b>Regulatory</b>	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.
<b>Ports</b>	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot

	HPE Aruba Networking AP-515 (RW) Dual Radio 4x4/2x2 Wi-Fi 6 10-pack Campus Access Point (S3J29A)	HPE Aruba Networking AP-515 (RW) TAA Dual Radio 4x4/2x2 802.11ax Internal Ants Unified Campus AP (Q9H72A)	HPE Aruba Networking AP-515 (US) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP (Q9H63A)
<b>Deployment</b>	Indoor	Indoor	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)
<b>Wi-Fi radios</b>	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)
<b>Radio configuration options</b>	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps
<b>Wi-Fi antenna</b>	Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 4.2 dBi in 2.4 GHz and 7.5 dBi in 5 GHz.	Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 4.2 dBi in 2.4 GHz and 7.5 dBi in 5 GHz.	Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 4.2 dBi in 2.4 GHz and 7.5 dBi in 5 GHz.
<b>Ultra tri-band (UTB) filtering</b>	No	No	No
<b>IoT support</b>	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0
<b>Integrated sensor</b>	No	No	No
<b>Location services</b>	802.11 FTM support	802.11 FTM support	802.11 FTM support
<b>Cellular support</b>	USB LTE modem (sold separately)	USB LTE modem (sold separately)	USB LTE modem (sold separately)
<b>Wired network interface</b>	1 x 2.5GbE, 1 x 1GbE	1 x 2.5GbE, 1 x 1GbE	1 x 2.5GbE, 1 x 1GbE
<b>MACsec support</b>	No	No	No
<b>AP operating system support</b>	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.
<b>AP management</b>	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service
<b>Certifications</b>	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location

	HPE Aruba Networking AP-515 (RW) Dual Radio 4x4/2x2 Wi-Fi 6 10-pack Campus Access Point (S3J29A)	HPE Aruba Networking AP-515 (RW) TAA Dual Radio 4x4/2x2 802.11ax Internal Ants Unified Campus AP (Q9H72A)	HPE Aruba Networking AP-515 (US) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP (Q9H63A)
<b>Regulatory</b>	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2 Railway Certs (AP-515 only): EN 50155:2017-Railway Applications EN 50121-1:2017-Railway EMC EN 50121-3-2-Railway EMC EN 50121-4:2016-Railway Immunity IEC 61373 ed2:2008-Railway Shock and Vibration For more country-specific regulatory information and approvals, contact your HPE representative.
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.
<b>Ports</b>	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot	EO: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps) E1: 10/100/1000BASE-T Ethernet network interface (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot

	HPE Aruba Networking AP-515 (US) Dual Radio 4x4/2x2 Wi-Fi 6 10-pack Campus Access Point (S3J30A)	HPE Aruba Networking AP-515 (US) TAA Dual Radio 4x4/2x2 802.11ax Internal Ants Unified Campus AP (Q9H73A)
<b>Deployment</b>	Indoor	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)
<b>Wi-Fi radios</b>	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)
<b>Radio configuration options</b>	2.4 GHz, 5 GHz	2.4 GHz, 5 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps
<b>Wi-Fi antenna</b>	Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 4.2 dBi in 2.4 GHz and 7.5 dBi in 5 GHz.	Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 4.2 dBi in 2.4 GHz and 7.5 dBi in 5 GHz.
<b>Ultra tri-band (UTB) filtering</b>	No	No
<b>IoT support</b>	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0
<b>Integrated sensor</b>	No	No
<b>Location services</b>	802.11 FTM support	802.11 FTM support
<b>Cellular support</b>	USB LTE modem (sold separately)	USB LTE modem (sold separately)
<b>Wired network interface</b>	1 x 2.5GbE, 1 x 1GbE	1 x 2.5GbE, 1 x 1GbE
<b>MACsec support</b>	No	No
<b>AP operating system support</b>	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.
<b>AP management</b>	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service
<b>Certifications</b>	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location	UL2043 plenum rating Bluetooth SIG WiFi Alliance®: WiFi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location

**HPE Aruba Networking AP-515 (US) Dual Radio 4x4/2x2 Wi-Fi 6 10-pack Campus Access Point (S3J30A)**

**HPE Aruba Networking AP-515 (US) TAA Dual Radio 4x4/2x2 802.11ax Internal Ants Unified Campus AP (Q9H73A)**

<b>Regulatory</b>	<p>FCC/ISED  CE Marked  RED Directive 2014/53/EU  EMC Directive 2014/30/EU  Low Voltage Directive 2014/35/EU  UL/IEC/EN 62368-1  EN 60601-1-1, EN60601-1-2  Railway Certs (AP-515 only):  EN 50155:2017-Railway Applications  EN 50121-1:2017-Railway EMC  EN 50121-3-2-Railway EMC  EN 50121-4:2016-Railway Immunity  IEC 61373 ed2:2008-Railway Shock and Vibration  For more country-specific regulatory information and approvals, contact your HPE representative.</p>	<p>FCC/ISED  CE Marked  RED Directive 2014/53/EU  EMC Directive 2014/30/EU  Low Voltage Directive 2014/35/EU  UL/IEC/EN 62368-1  EN 60601-1-1, EN60601-1-2  Railway Certs (AP-515 only):  EN 50155:2017-Railway Applications  EN 50121-1:2017-Railway EMC  EN 50121-3-2-Railway EMC  EN 50121-4:2016-Railway Immunity  IEC 61373 ed2:2008-Railway Shock and Vibration  For more country-specific regulatory information and approvals, contact your HPE representative.</p>
<b>Warranty</b>	<p>Limited lifetime warranty. See the warranty duration.</p>	<p>Limited lifetime warranty. See the warranty duration.</p>
<b>Ports</b>	<p>E0: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps)  E1: 10/100/1000BASE-T Ethernet network interface (RJ-45)  USB 2.0 host interface (Type A connector)  Serial console interface (proprietary, micro-B USB physical jack)  Kensington security slot</p>	<p>E0: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps)  E1: 10/100/1000BASE-T Ethernet network interface (RJ-45)  USB 2.0 host interface (Type A connector)  Serial console interface (proprietary, micro-B USB physical jack)  Kensington security slot</p>

## Related Options

The following options are available for these series:

- HPE Aruba Networking AP-503 (RW) 10-Pack Dual Radio 2x2:2 Wi-Fi 6 Campus Access Point
- HPE Aruba Networking AP-503 (US) 10-Pack Dual Radio 2x2:2 Wi-Fi 6 Campus Access Point
- HPE Aruba Networking AP-515-CVR-20 20pk for AP-515 White Non-glossy Snap-On Covers
- HPE Aruba Networking AP-AC2-12B 12V/48W AC/DC Desktop Style Power Adapter with 2.1/5.5mm Connector
- HPE Aruba Networking AP-ANT-311 Direct-Mount RP-SMA Tri-Band 1x1 Omni Dipole Antenna
- HPE Aruba Networking AP-ANT-312 Direct-Mount RP-SMA Tri-Band 1x1 Low-Profile Omni Dipole Antenna
- HPE Aruba Networking AP-ANT-313 Cabled RP-SMA Tri-Band 1x1 Omni Dipole Antenna
- HPE Aruba Networking AP-ANT-340 Cabled RP-SMA Tri-Band 4x4 Downtilt Omni Ceiling Antenna
- HPE Aruba Networking AP-ANT-345 Cabled RP-SMA Tri-Band 4x4 Medium Gain Directional Panel Antenna
- HPE Aruba Networking AP-ANT-348 Cabled RP-SMA Tri-Band 4x4 High Gain Directional Panel Antenna
- HPE Aruba Networking AP-ANT-MNT-U Universal AZ/EL Adjustable Antenna Pole Wall Mount Kit
- HPE Aruba Networking AP-CBL-SERU Micro-USB TTL3.3V to USB2.0 AP Console Adapter Cable
- HPE Aruba Networking AP-MNT-A Campus AP Type A Suspended Ceiling Rail Flat 9/16 Mount Bracket Kit
- HPE Aruba Networking AP-MNT-B Campus AP Type B Suspended Ceiling Rail Flat 15/16 Mount Bracket Kit
- HPE Aruba Networking AP-MNT-C Campus AP Type C Suspended Ceiling Rail 9/16 Profile Mnt Bracket Kit
- HPE Aruba Networking AP-MNT-D Campus AP Type D Solid Surface Mount Bracket Kit
- HPE Aruba Networking AP-MNT-E Campus AP Type E Wall-Box Mount Bracket Kit
- HPE Aruba Networking AP-MNT-MP10-A Campus AP 10-Pack 9/16 Flat Ceiling Rail Mount Bracket Kit
- HPE Aruba Networking AP-MNT-MP10-B1 Campus AP 10-Pack 15/16 Adj Flat Ceiling Rail Mount Bracket Kit
- HPE Aruba Networking AP-MNT-MP10-B Campus AP 10-Pack 15/16 Flat Ceiling Rail Mount Bracket Kit
- HPE Aruba Networking AP-MNT-MP10-C Campus AP 10-Pack Profile 9/16 Ceiling Rail Mount Bracket Kit
- HPE Aruba Networking AP-MNT-MP10-D Campus AP 10-Pack Solid Surface Mount Bracket Kit
- HPE Aruba Networking AP-MNT-MP10-E Campus AP 10-Pack Wall-box Mount Bracket Kit
- HPE Aruba Networking AP-MNT-MP10-U Campus AP Universal 10-pack Mount Bracket Kit
- HPE Aruba Networking AP-MNT-MP10-X Campus AP 10-Pack Mount Adapter Kit
- HPE Aruba Networking AP-MNT-U Campus Access Point Type U Universal Mount Bracket Kit
- HPE Aruba Networking AP-MOD-SERU Micro-USB TTL3.3V to RJ45 RS232 AP Console Adapter Module
- HPE Aruba Networking AP-POE-AFGE 1-Port GbE 802.3af 15.4W Midspan Injector
- HPE Aruba Networking AP-POE-ATSR 1-Port Smart Rate 802.3at 30W Midspan Injector
- HPE Aruba Networking USB Extender Cable Kit
- HPE Aruba Networking USB LTE Modem for Access Points and Gateways

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