With an increasing number of mobile and Internet of Things (IoT) devices reliant on wireless access, networks must be capable of accommodating a diverse mixture of device types, applications and services.

The Aruba 510 series campus access points with 802.11ax technology are designed to deliver high performance access for mobile and (IoT) devices in environments where density is an issue. The 510 series uses 802.11ax features to efficiently and simultaneously serve multiple clients and traffic types in dense environments, increasing data rates for both individual device and overall system.

The 510 series support all mandatory and several optional 802.11ax features, which includes up- and downlink OFDMA** with up to 16 resource units, multi-user MIMO (MU-MIMO)**, 4x4 MIMO with up to four spatial streams in 5GHz and 2x2 with up to two special streams in 2.4GHz, channel bandwidths up to 160MHz (5GHz; 40MHz in 2.4GHz), and 1024-QAM modulation.

The 510 series supports maximum data rates of 4.8Gbps in the 5GHz band and 575Mbps in the 2.4GHz band (for an aggregate peak data rate of 5.4Gbps). Each AP supports up to 256 associated client devices per radio (typical recommended limit for active clients is 150), making the mid-range 802.11ax 510 series APs ideal for high density environments, such as schools, retail branches, hotels and enterprise offices.

In addition to 802.11ax standard capabilities, the 510 Series supports unique features like Aruba ClientMatch radio management and additional radios for location services and IoT applications. This delivers an unsurpassed user experience in today’s all-wireless digital work environment and offers up to 4x higher capacity in a cost-effective manner.

*Feature not supported in initial release; it will be enabled in a future software release
** Support added in the 8.5.0.0 software release
HIGH EFFICIENCY

The Aruba 510 Series will efficiently and simultaneously serve multiple clients, increasing data rates for both individual devices and as an overall system. Two key features of 802.11ax are multi-user connectivity and enhanced efficiency using Orthogonal Frequency Division Multiple Access (OFDMA)** and multi-user – multiple input multiple output (MU-MIMO)**.

Multi-user transmission with downlink and uplink OFDMA — OFDMA increases user data rates and also reduces latency, especially for large numbers of devices with short frames or low data-rate requirements, such as voice and IoT devices. By providing multi-user capabilities, a channel can be divided in the frequency domain, and multiple transmissions can be carried simultaneously. OFDMA is particularly effective in raising network efficiency and capacity where there are many devices, short frames, or low data-rate streams.

Multi user transmission with downlink multi-user MIMO — MU-MIMO is another multi-user capability, originally introduced in 802.11ac. This improves network capacity by allowing multiple devices to transmit simultaneously.

Energy efficiency — As higher performance 802.11ax access points will handle a greater number of devices and traffic, they will be driving the need for more power consumption. To offset these demands, Aruba NetInsight includes a feature called GreenAP which allows the 510 series access points to draw less power when it’s not being used, such as evenings when the buildings are empty.

UNSURPASSED PERFORMANCE

In addition to the standard 802.11ax capabilities, Aruba’s ClientMatch* technology will automatically detect and classify mobile devices with common characteristics, group these devices, and match them with the best AP’s and radios to optimize performance of the network. For example, ClientMatch will automatically attempt to group 802.11ax capable devices onto available AP radios with equivalent capabilities, so that the performance benefits of Orthogonal Frequency Division Multiple Access (OFDMA)** are maximized. This means increased network performance and a boost in network capacity.

The AP-510 series run on ArubaOS 8, which delivers always-on networking via features like LiveUpgrade, Controller Clustering and seamless fail-over. ArubaOS 8 also includes AirMatch, which provides machine learning technology to automatically optimize the performance of a wireless network by tuning the radio frequencies (RF) of the access points.

IOT READY

The 802.11ax technology also provides unique benefits for IoT devices ranging from dedicated channels in OFDMA which is simultaneous transmission of IoT connections with low latency, to power saving options with Target Wake Time (TWT)* to save battery life.

In addition, the 510 series support an integrated Bluetooth 5 and Zigbee* radio, as well as a USB port for maximum flexibility, providing secure and reliable connectivity for IoT devices and for implementing location services.

ADDITIONAL FEATURES

- Unified AP support: flexibility to deploy in either controller-based (ArubaOS) or controller-less (InstantOS) networks
- Dual Radio 802.11ax access point with OFDMA** and Multi-User MIMO (MU-MIMO)**
  - Supports up to 4.8Gbps in the 5GHz band (with 4SS/E160 clients) and up to 575Mbps in the 2.4GHz band (with 2SS/HE40 clients)
  - Up to 16 OFDMA resource units and up to 256 associated client devices per radio (typical recommended limit for active clients is 150)
  - Antenna polarization diversity for optimized RF performance
- HPE SmartRate uplink Ethernet port (E0)
  - Supports up to 2.5Gbps with NBase-T and IEEE 802.3bz Ethernet compatibility
  - Backwards compatible with 100/1000Base-T
- Built-in Bluetooth 5 and Zigbee* radio
  - Enables a wide range of IoT use-cases – asset tracking, mobile engagement
- Advanced Cellular Coexistence (ACC)
  - Minimizes interference from 3G/4G cellular networks, distributed antenna systems and commercial small cell/femtocell equipment

*Feature not supported in initial release; it will be enabled in a future software release
** Support added in the 8.5.0.0 software release
• Quality of service for unified communications applications
  • Supports priority handling and policy enforcement for unified communication apps, including Skype for Business with encrypted videoconferencing, voice, chat and desktop sharing
• Aruba AppRF technology leverages deep packet inspection to classify and block, prioritize, or limit bandwidth for thousands of applications in a range of categories
• Best-in-class RF Management
  • Integrated AirMatch technology manages the 2.4GHz and 5GHz radio bands and actively optimizes the RF environment including channel width, channel selection and transmit power
  • Adaptive Radio Management (ARM) technology provides airtime fairness and ensures that APs stay clear of all sources of RF interference to deliver reliable, high-performance WLANs
• Spectrum analysis*
  • Capable of part-time or dedicated air monitoring, the spectrum analyzer remotely scans the 2.4GHz and 5GHz radio bands to identify sources of RF interference from 20MHz through 160MHz operation
• Aruba Secure Core
  • Device assurance: Use of Trusted Platform Module (TPM) for secure storage of credentials and keys as well as secure boot
  • Integrated wireless intrusion protection offers threat protection and mitigation, and eliminates the need for separate RF sensors and security appliances
  • IP reputation and security services identify, classify, and block malicious files, URLs and IPs, providing comprehensive protection against advanced online threats
  • SecureJack-capable for secure tunneling of wired Ethernet traffic
• Intelligent Power Monitoring (IPM)
  • Enables the AP to continuously monitor and report its actual power consumption and optionally make autonomous decisions to disable certain capabilities based on the amount of power available to the unit
  • Software configurable to disable capabilities in specified order of priority
  • The IPM feature applies when the unit is powered by a PoE source
• Green AP system feature (using Aruba NetInsight)
  • The 510 Series Access Points support a custom deep-sleep mode to deliver significant power and cost savings when used in conjunction with the Green AP feature.

DEPLOYMENT OPTIONS
The Aruba 510 Series APs offer a choice of deployment and operating modes to meet your unique management and deployment requirements:
• Controller-based mode – When deployed in conjunction with an Aruba Mobility Controller, Aruba 510 Series APs offer centralized configuration, data encryption, policy enforcement and network services, as well as distributed and centralized traffic forwarding.
  • Controller-less (Instant) mode – The controller function is virtualized in a cluster of APs in Instant mode. As the network grows and/or requirements change, Instant deployments can easily migrate to controller-based mode.
• Remote AP (RAP) mode for branch deployments.
• Air monitor (AM) for wireless IDS, rogue detection and containment.
• Spectrum analyzer (SA), dedicated or hybrid, for identifying sources of RF interference.**
• Secure enterprise mesh portal or point.**

For large installations across multiple sites, the Aruba Activate service significantly reduces deployment time by automating device provisioning, firmware upgrades, and inventory management. With Aruba Activate, the APs can be factory-shipped to any site and configure themselves when powered up.

SPECIFICATIONS

Hardware variants
• AP-514: External antenna models
• AP-515: Internal antenna models

Wi-Fi radio specifications
• AP type: Indoor, dual radio, 5GHz 802.11ax 4x4 MIMO and 2.4GHz 802.11ax 2x2 MIMO
• 5GHz radio:
  • Four spatial stream Single User (SU) MIMO for up to 4.8Gbps wireless data rate to individual 4SS HE160 802.11ax client devices (max)*
  • Two spatial stream Single User (SU) MIMO for up to 1.2Gbps wireless data rate to individual 2SS HE80 802.11ax client devices (typical)*

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*Feature not supported in initial release; it will be enabled in a future software release
** Support added in the 8.5.0.0 software release
- Four spatial stream Multi User (MU) MIMO for up to 4.8Gbps wireless data rate to up to four 1SS or two 2SS HE160 802.11ax DL-MU-MIMO capable client devices simultaneously (max)**
- Four spatial stream Multi User (MU) MIMO for up to 2.4Gbps wireless data rate to up to four 1SS or two 2SS HE80 802.11ax DL-MU-MIMO capable client devices simultaneously (typical)**
- 2.4GHz radio:
  - Two spatial stream Single User (SU) MIMO for up to 575Mbps wireless data rate to individual 2SS HE40 802.11ax client devices or to two 1SS HE40 802.11ax DL-MU-MIMO capable client devices simultaneously (max)
  - Two spatial stream Single User (SU) MIMO for up to 287Mbps wireless data rate to individual 2SS HE20 802.11ax client devices or to two 1SS HE20 802.11ax DL-MU-MIMO capable client devices simultaneously (typical)
- Support for up to 256 associated client devices per radio (typical recommended limit for active clients is 150), and up to 16 BSSIDs per radio
- Supported frequency bands (country-specific restrictions apply):
  - 2.400 to 2.4835GHz
  - 5.150 to 5.250GHz
  - 5.250 to 5.350GHz
  - 5.470 to 5.725GHz
  - 5.725 to 5.850GHz
- Available channels: Dependent on configured regulatory domain
- Dynamic frequency selection (DFS) optimizes the use of available RF spectrum
- Supported radio technologies:
  - 802.11b: Direct-sequence spread-spectrum (DSSS)
  - 802.11a/g/n/ac: Orthogonal frequency-division multiplexing (OFDM)
  - 802.11ax: Orthogonal frequency-division multiple access (OFDMA) with up to 16 resource units (for an 80MHz channel)**
- Supported modulation types:
  - 802.11b: BPSK, QPSK, CCK
  - 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM (proprietary extension)
  - 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM (proprietary extension)
  - 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
  - 802.11n high-throughput (HT) support: HT20/40
  - 802.11ac very high throughput (VHT) support: VHT20/40/80/160
  - 802.11ax high efficiency (HE) support: HE20/40/80/160
- Supported data rates (Mbps): 
  - 802.11b: 1, 2, 5.5, 11
  - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54
  - 802.11n (2.4GHz): 6.5 to 300 (MCS0 to MCS15, HT20 to HT40)
  - 802.11n (5GHz): 6.5 to 600 (MCS0 to MCV31, HT20 to HT40)
  - 802.11ac: 6.5 to 3,467 (MCS0 to MCS9, NSS = 1 to 4, VHT20 to VHT160)
  - 802.11ax (2.4GHz): 3.6 to 574 (MCS0 to MCS11, NSS = 1 to 2, HE20 to HE40)
  - 802.11ax (5GHz): 3.6 to 4,803 (MCS0 to MCS11, NSS = 1 to 4, HE20 to HE160)
  - 802.11n/ac packet aggregation: A-MPDU, A-MSDU
- Transmit power: Configurable in increments of 0.5 dBm
- Maximum (aggregate, conducted total) transmit power (limited by local regulatory requirements):
  - 2.4 GHz band: +21 dBm (18dBm per chain)
  - 5 GHz band: +24 dBm (18 dBm per chain)
- Note: conducted transmit power levels exclude antenna gain. For total (EIRP) transmit power, add antenna gain.
- Advanced Cellular Coexistence (ACC) minimizes the impact of interference from cellular networks
- Maximum ratio combining (MRC) for improved receiver performance
- Cyclic delay/shift diversity (CDD/CSD) for improved downlink RF performance
- Space-time block coding (STBC) for increased range and improved reception
- Low-density parity check (LDPC) for high-efficiency error correction and increased throughput
- Transmit beam-forming (TxBF) for increased signal reliability and range**
- 802.11ax Target Wait Time (TWT) to support low-power client devices*

*Feature not supported in initial release; it will be enabled in a future software release
** Support added in the 8.5.0.0 software release
**Wi-Fi antennas**
- **AP-514**: Four (female) RP-SMA connectors for external dual band antennas (A0 through A3, corresponding with radio chains 0 through 3). Worst-case internal loss between radio interface and external antenna connectors (due to diplexing circuitry): 1.3dB in 2.4GHz and 1.7dB in 5GHz.
- **AP-515**: Four integrated dual-band downtilt omni-directional antennas for 4x4 MIMO with peak antenna gain of 4.2dBi in 2.4GHz and 7.5dBi in 5GHz. Built-in antennas are optimized for horizontal ceiling mounted orientation of the AP. The downtilt angle for maximum gain is roughly 30 degrees.
  - Combining the patterns of each of the antennas of the MIMO radios, the peak gain of the effective per-antenna pattern is 3.8dBi in 2.4GHz and 4.6dBi in 5GHz.

**Additional interfaces**
- **E0**: HPE SmartRate port (RJ-45, maximum negotiated speed 2.5Gbps)
  - Auto-sensing link speed (100/1000/2500BASE-T) and MDI/MDX
  - 2.5Gbps speed complies with NBase-T and 802.3bz specifications
  - PoE-PD: 48Vdc (nominal) 802.3af/at/bt (class 3 or higher)
  - 802.3az Energy Efficient Ethernet (EEE)
- **E1**: 10/100/1000BASE-T Ethernet network interface (RJ-45)
  - Auto-sensing link speed and MDI/MDX
  - 802.3az Energy Efficient Ethernet (EEE)
- **Link aggregation (LACP)** support between both network ports for redundancy and increased capacity
- **DC power interface**: 12Vdc (nominal, +/- 5%), accepts 2.1mm/5.5mm center-positive circular plug with 9.5mm length
- **USB 2.0 host interface (Type A connector)**
  - Capable of sourcing up to 1A / 5W to an attached device
- **Bluetooth 5 and Zigbee (802.15.4)**
  - Bluetooth 5: up to 8dBm transmit power (class 1) and -95dBm receive sensitivity
  - Zigbee: up to 8dBm transmit power and -97dBm receive sensitivity
- **Integrated vertically polarized omnidirectional antenna** with roughly 30 degrees downtilt and peak gain of 3.5dBi (AP-515) or 4.9dBi (AP-514)
- **Visual indicators (two multi-color LEDs)**: for System and Radio status
- **Reset button**: factory reset, LED mode control (normal/off)
- **Serial console interface** (proprietary, micro-B USB physical jack)
- **Kensington security slot**

**Power sources and power consumption**
- The AP supports direct DC power and Power over Ethernet (PoE; on port E0)
- When both power sources are available, DC power takes priority over PoE
- Power sources are sold separately; see the ordering Information section below for details
- When powered by DC or 802.3at (class 4) / 802.3bt (class 5) PoE, the AP will operate without restrictions.
- When powered by 802.3af (class 3) PoE and with the IPM feature enabled, the AP will start up in unrestricted mode, but it may apply restrictions depending on the PoE budget and actual power. What IPM restrictions to apply, and in what order, is programmable.
- Operating the AP with an 802.3af (class 3 or lower) PoE source and IPM disabled is not supported.
- Maximum (worst-case) power consumption:
  - DC powered: 16.0W
  - PoE powered (802.3af, IPM enabled): 13.5W
  - PoE powered (802.3at/bt): 20.8W
- All numbers above are without an external USB device connected. When sourcing the full 5W power budget to such a device, the incremental (worst-case) power consumption for the AP is up to 5.7W (PoE powered) or 5.5W (DC powered).
- Maximum (worst-case) power consumption in idle mode: 12.6W (PoE) or 9.7W (DC)
- Maximum (worst-case) power consumption in deep-sleep mode: 5.9W (PoE) or 1.5W (DC)

**Mounting details**
A mounting bracket has been pre-installed on the back of the AP. This bracket is used to secure the AP to any of the (sold separately) mount kits; see the ordering Information section below for details.

**Mechanical specifications**
- **Dimensions/weight (AP-515; unit, excluding mount bracket):**
  - 200mm (W) x 200mm (D) x 46mm (H)/ 7.9” (W) x 7.9” (D) x 1.8” (H)
  - 810g/28.5oz
- **Dimensions/weight (AP-515; shipping):**
  - 230mm (W) x 220mm (D) x 72mm (H)/ 9.1” (W) x 8.7” (D) x 2.8” (H)
  - 1010g/35.5oz
Environmental specifications

- Operating conditions
  - Temperature: 0°C to +50°C/+32°F to +122°F
  - Humidity: 5% to 93% non-condensing
  - AP is plenum rated for use in air-handling spaces
  - ETS 300 019 class 3.2 environments
- Storage and transportation conditions
  - Temperature: -40°C to +70°C/-40°F to +158°F
  - Humidity: 5% to 93% non-condensing
  - ETS 300 019 classes 1.2 and 2.3 environments

Reliability

Mean Time Between Failure (MTBF): 560,000hrs (64yrs) at +25°C operating temperature.

Regulatory compliance

- FCC/ISED
- CE Marked
- RED Directive 2014/53/EU
- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- UL/IEC/EN 60950
- EN 60601-1-1, EN60601-1-2

For more country-specific regulatory information and approvals, please see your Aruba representative.

Regulatory model numbers

- AP-514: APIN0514
- AP-515: APIN0515

Certifications

- UL2043 plenum rating
- Wi-Fi Alliance:
  - Wi-Fi CERTIFIED a, b, g, n, ac
  - WPA, WPA2 and WPA3 – Enterprise with CNSA option, Personal(SAE), Enhanced Open (OWE)
  - WMM, WMM-PS, Wi-Fi Vantage, Wi-Fi Agile Multiband
  - Wi-Fi Location
  - Passpoint (release 2)
- Bluetooth SIG
- Ethernet Alliance (PoE, PD device, class 4)

WARRANTY

Aruba’s hardware limited lifetime warranty.

MINIMUM OPERATING SYSTEM
SOFTWARE VERSIONS

ArubaOS and Aruba InstantOS 8.4.0.0

For more country-specific regulatory information and approvals, please see your Aruba representative.

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**RF PERFORMANCE TABLE**

<table>
<thead>
<tr>
<th>Band, rate</th>
<th>Maximum transmit power (dBm) per transmit chain</th>
<th>Receiver sensitivity (dBm) per receive chain</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2.4GHz, 802.11b</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1Mbps</td>
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<td>-88</td>
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<tr>
<td><strong>2.4GHz, 802.11g</strong></td>
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<td></td>
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<tr>
<td>6Mbps</td>
<td>18</td>
<td>-93</td>
</tr>
<tr>
<td>54Mbps</td>
<td>17</td>
<td>-75</td>
</tr>
<tr>
<td><strong>2.4GHz, 802.11n HT20</strong></td>
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<td></td>
</tr>
<tr>
<td>MCS0</td>
<td>18</td>
<td>-93</td>
</tr>
<tr>
<td>MCS7</td>
<td>16</td>
<td>-75</td>
</tr>
<tr>
<td><strong>2.4GHz, 802.11ax HE20</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MCS0</td>
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<td>-92</td>
</tr>
<tr>
<td>MCS11</td>
<td>14</td>
<td>-62</td>
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</table>

1Not available initially; will require a software upgrade
<table>
<thead>
<tr>
<th>Band, rate</th>
<th>Maximum transmit power (dBm) per transmit chain</th>
<th>Receiver sensitivity (dBm) per receive chain</th>
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</thead>
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<td>6Mbps</td>
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<td>54Mbps</td>
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<td>-75</td>
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<tr>
<td>5GHz, 802.11n HT20</td>
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<tr>
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<tr>
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<td>5GHz, 802.11ac VHT20</td>
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<td>5GHz, 802.11ac VHT160</td>
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<tr>
<td>5GHz, 802.11ax HE20</td>
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<tr>
<td>5GHz, 802.11ax HE160</td>
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<tr>
<td>MCS11</td>
<td>13</td>
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</tr>
</tbody>
</table>
**AP-515/IAP-515 ANTENNA PATTERN PLOTS**

**Horizontal planes (top view)**
Showing azimuth (0 degrees) and 30 degrees downtilt patterns (averaged patterns for all applicable antennas)

![Horizontal plane patterns](image1)

**Vertical (elevation) planes (side view, AP facing up)**
Showing side view with AP rotated 0 and 90 degrees (averaged patterns for all applicable antennas)

![Vertical plane patterns](image2)
# Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q9H54A</td>
<td>Aruba AP-514 (EG) Dual Radio 4x4:4 + 2x2:2 802.11ax External Antennas Unified Campus AP</td>
</tr>
<tr>
<td>Q9H55A</td>
<td>Aruba AP-514 (IL) Dual Radio 4x4:4 + 2x2:2 802.11ax External Antennas Unified Campus AP</td>
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<tr>
<td>Q9H56A</td>
<td>Aruba AP-514 (JP) Dual Radio 4x4:4 + 2x2:2 802.11ax External Antennas Unified Campus AP</td>
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<td>Q9H57A</td>
<td>Aruba AP-514 (RW) Dual Radio 4x4:4 + 2x2:2 802.11ax External Antennas Unified Campus AP</td>
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<tr>
<td>Q9H58A</td>
<td>Aruba AP-514 (US) Dual Radio 4x4:4 + 2x2:2 802.11ax External Antennas Unified Campus AP</td>
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<tr>
<td>Q9H59A</td>
<td>Aruba AP-515 (EG) Dual Radio 4x4:4 + 2x2:2 802.11ax Internal Antennas Unified Campus AP</td>
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<td>Q9H60A</td>
<td>Aruba AP-515 (IL) Dual Radio 4x4:4 + 2x2:2 802.11ax Internal Antennas Unified Campus AP</td>
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<td>Aruba AP-515 (JP) Dual Radio 4x4:4 + 2x2:2 802.11ax Internal Antennas Unified Campus AP</td>
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<td>Aruba AP-515 (RW) Dual Radio 4x4:4 + 2x2:2 802.11ax Internal Antennas Unified Campus AP</td>
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<td>Aruba AP-515 (US) Dual Radio 4x4:4 + 2x2:2 802.11ax Internal Antennas Unified Campus AP</td>
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<tr>
<td>Q9H64A</td>
<td>Aruba AP-514 (EG) TAA Dual Radio 4x4:4 + 2x2:2 802.11ax External Antennas Unified Campus AP</td>
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<td>Aruba AP-514 (IL) TAA Dual Radio 4x4:4 + 2x2:2 802.11ax External Antennas Unified Campus AP</td>
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<tr>
<td>Q9H66A</td>
<td>Aruba AP-514 (JP) TAA Dual Radio 4x4:4 + 2x2:2 802.11ax External Antennas Unified Campus AP</td>
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<td>Aruba AP-515 (JP) TAA Dual Radio 4x4:4 + 2x2:2 802.11ax Internal Antennas Unified Campus AP</td>
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<tr>
<td>Q9H72A</td>
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<tr>
<td>Q9H73A</td>
<td>Aruba AP-515 (US) TAA Dual Radio 4x4:4 + 2x2:2 802.11ax Internal Antennas Unified Campus AP</td>
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## Mounting Kits

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>J2370A</td>
<td>AP-MNT-MP10-A Campus AP mount bracket kit (10-pack) type A: suspended ceiling rail, flat 9/16</td>
</tr>
<tr>
<td>Q9G69A</td>
<td>AP-MNT-MP10-B Campus AP mount bracket kit (10-pack) type B: suspended ceiling rail, flat 15/16</td>
</tr>
<tr>
<td>Q9G70A</td>
<td>AP-MNT-MP10-C Campus AP mount bracket kit (10-pack) type C: suspended ceiling rail, profile 9/16</td>
</tr>
<tr>
<td>Q9G71A</td>
<td>AP-MNT-MP10-D Campus AP mount bracket kit (10-pack) type D: solid surface</td>
</tr>
<tr>
<td>R1C72A</td>
<td>AP-MNT-MP10-E Campus AP mount bracket kit (10-pack) type E: wall-box</td>
</tr>
</tbody>
</table>

## Cosmetic Covers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>Q9H74A</td>
<td>AP-515-CVR-20 20-pack for AP-515 with Holes for LED Indicators White Non-glossy Snap-on Covers</td>
</tr>
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</table>
## ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Power accessories</strong></td>
<td></td>
</tr>
<tr>
<td>JX990A</td>
<td>AP-AC-12V30B AC-to-DC Power Adapter (12V/30W)</td>
</tr>
<tr>
<td>JW629A</td>
<td>PD-9001GR-AC 30W 802.3at PoE+ 10/100/1000 Ethernet Indoor Rated Midspan Injector</td>
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<tr>
<td><strong>Other accessories</strong></td>
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<tr>
<td>JY728A</td>
<td>AP-CBL-SERU Micro-USB TTL3.3V to USB2.0 AP Console Adapter Cable</td>
</tr>
<tr>
<td>Antennas</td>
<td>See the 510 Series Ordering Guide for compatible options and the Aruba website for specs</td>
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</tbody>
</table>