

## AT A GLANCE

# OUTDOOR ACCESS POINTS

Users expect great Wi-Fi no matter where they are — and that includes outdoors. Employees want to be able to work anywhere on a corporate campus, walking between buildings, wrapping up that customer call while parked outside, or enjoying the sun over lunch on the patio or at a nearby park. Students want to collaborate on class projects and access videos from the quad. Smooth warehouse operations depend on reliable communications starting at the loading bay, into the refrigerated areas and all the way through to staging areas. So do industrial sites and outdoor venues.

### Simple to install and purpose built for the outdoors

To meet the connectivity requirements of enterprises no matter where they operate, Aruba offers a comprehensive portfolio of outdoor wireless access points. With more than 10 outdoor APs to choose from, enterprises can support outdoor campus environments of any size, large public venues, and even oil rigs or industrial freezers. And all of Aruba's outdoor APs use easy, simple to install mounting solutions to help minimize installation time and lower the costs to install.

### Intelligent optimization

Aruba APs have advanced analytics and machine learning capabilities that keep Wi-Fi networks performing at peak levels.

- **Client optimization:** To improve the experience for roaming mobile users, ClientMatch monitors the radio frequency environment around each client and uses advanced analytics to dynamically provide ongoing band steering and spectrum load balancing to enhance the experience for every client in the network.
- **Automated radio frequency management:** To support growth in client device density and in data volumes, AirMatch uses machine learning techniques to provide automated radio frequency optimization. By analyzing the entire wireless network, AirMatch determines the optimum radio configuration and enables the network to

### KEY CAPABILITIES

- Outdoor, ruggedized, and point-to-point APs to meet the enterprise needs even in hazardous locations
- Wi-Fi 6 and Wi-Fi 5 certified to ensure interoperability and to conform to the highest standards at longer distances outdoors.
- IoT ready to simplify deploying and managing IoT location services, asset-tracking services, security solutions, and IoT sensors with Bluetooth 5 and 802.15.4/Zigbee radios
- Highly secure with dynamic segmentation for role-based policy enforcement and WPA3 and Enhanced Open for guest authentication and encryption
- RF optimization to eliminate sticky clients, ensure reliable coverage, and deliver SLA-grade application performance

automatically adapt in real time to changing RF conditions such as high noise and radar. It also adjusts for higher density, co-channel interference, and coverage gaps.

- **Application assurance:** With Air Slice, organizations can provide application assurance to their users that goes beyond the traditional capabilities of airtime fairness. After the SLAs are configured, Air Slice monitors network usage, automatically allocates radio resources, and dynamically adjusts radio resources as new users connect and applications sessions begin or end. Air Slice helps guarantee stringent application performance for latency-sensitive and high-bandwidth uses including voice and video.



### Enhanced security

To improve security and ease of management, IT can centrally configure and automatically enforce role-based policies that define proper access privileges for employees, guests, contractors, and other user groups – no matter where users connect on wired and WLANs. Dynamic Segmentation eliminates the time consuming and error-prone task of managing complex and static VLANs, ACLs, and subnets by dynamically assigning policies and keeping traffic secure and separated.

Aruba Wi-Fi 6 Outdoor APs also include build-security capabilities such as WPA3 and Enhanced Open. Support for stronger encryption and authentication is provided via the latest version of WPA for enterprise protected networks. Enhanced Open offers seamless protection for users connecting to open networks where each session is automatically encrypted to protect user passwords and data on guest networks.

### IoT ready

Aruba outdoor APs 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. There is also a USB-port extension to provide IoT connectivity to a wider range of devices. These IoT capabilities allows organizations to leverage the Aruba APs as an IoT platform, which eliminates the need for an overlay infrastructure and additional IT resources and can accelerate IoT initiatives. In addition, Target Wake Time (TWT) establishes a schedule for when clients need to communicate with an AP. This helps improve client power savings and reduces airtime contention with other clients, which is ideal for IoT.

## Wi-Fi 6 and Point-to-Point Hardened and Outdoor Portfolio



**518 Series**  
Multi-Gigabit  
Ruggedized  
Indoor/Outdoor



**560 Series**  
Small form factor  
Outdoor



**560EX Series**  
Small form factor  
HazLoc Certified



**570 Series**  
Extreme Density  
Outdoor



**570EX Series**  
Extreme Density  
HazLoc Certified



**387 Series**  
Multi-Gigabit  
Point to Point  
802.11ad

### Certification

Our access points are certified by the Wi-Fi Alliance to meet industry standards and ensure backwards compatibility. In addition, our 570EX and 560EX access points are sealed to support extreme outdoor hazardous locations and meet Class 1 Division 2 or ATEX Zone 2 requirements. These APs can withstand harsh weather and extreme temperatures, persistent moisture, salt spray, with wind resiliency to a maximum of 165 mph.

### Deployment flexibility

Aruba APs can operate as standalone access points or with a gateway for greater scalability, security, and manageability. APs can be deployed using zero touch provisioning – without on-site technical expertise – for ease of implementation in branch offices and for remote work. Aruba APs can be managed using cloud-based or on premises solutions for any campus, branch, or remote work environment.



As the management and orchestration console for Aruba ESP (Edge Services Platform), **Aruba Central** provides a single pane of glass for overseeing every aspect of wired and wireless LANs, WANs, and VPNs. AI-powered analytics, end-to-end orchestration and automation, and advanced security features are built natively into the solution.

**Learn more**

Aruba Wi-Fi 6 and Wi-Fi 5 access points deliver simple, fast, and secure access whether ruggedized indoor locations or out. Explore the family of **Aruba outdoor access points**.