

HPE Aruba Networking 670 Series Outdoor Access Points

HPE Aruba Networking AP-677 (US) Tri Radio 2x2 Wi-Fi 6E Internal Directional Outdoor AP (SOP55A)



What's new

- High performance outdoor Wi-Fi 6E AP ideal for outdoor and environmentally challenging locations
- Delivers up to 3.9 Gbps maximum aggregate data rates with a tri-radio 2x2:2 MIMO
- 160 MHz channels in 6 GHz support low-latency, bandwidth-hungry applications like high-definition video and AR/VR applications

Overview

The HPE Aruba Networking 670 Series Outdoor Access Points bring high performance Wi-Fi 6E to outdoor and environmentally challenging locations. The 670 Series deliver more wireless capacity and wider channels taking advantage of Wi-Fi 6E and the 6 GHz band to more than double capacity to meet the speed and reliability needed by enterprise and industrial Internet of Things (IoT) environments.

The 670 Series Access Points are weatherproof, temperature hardened, and ready for hazardous environments. With integrated high-power Bluetooth and Zigbee radios, fast wired connectivity, and a limited lifetime warranty, the access points (APs) provide high-performance outdoor

- High-power Bluetooth [1] and Zigbee radios to meet Industrial IoT requirements
- Flexible and fast-wired connectivity with 2.5 GbE port and 1 GbE SFP port. The series includes models with internal antennas and new connectorized model that supports external antennas
- Self-locating with embedded GPS receiver and will operates as Standard Power (SP) device

connectivity you can depend on, delivering up to 3.9 Gbps maximum aggregate data rate with a tri-radio 2x2:2 MIMO access point (AP). This series includes the 670EX models that are designed for the most extreme, hazardous locations.

Features

High Performance Outdoor Wi-Fi 6E

HPE Aruba Networking 670 Series Outdoor Access Points operate as standard power (SP) devices and deliver greater efficiency with OFDMA, MUMIMO, and target wake time (TWT) to extend the battery life of devices.

Fast performance with 6 GHz band that delivers up to 1200 MHz additional capacity and 3.6 Gbps maximum combined data rate to better support high-bandwidth, low-latency applications such as high-definition video.

This AP is self-locating with embedded GPS receiver and will operate as standard power (SP) devices requiring an automated frequency coordination service (AFC) to protect incumbent outdoor services.

Enhanced wireless experience with ClientMatch technology that eliminates sticky client issues by steering a client to the AP where it receives the best radio signal.

The AP offers convenient wired connectivity with fast 2.5 GbE uplink port and 1 GbE port.

Simplified Access with Enhanced Security

The HPE Aruba Networking 670 Series Outdoor Access Points offer enhanced security with Dynamic Segmentation to eliminate 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.

The AP offers network protection with stronger encryption and authentication with WPA3, secure credentials/keys storage for guest access with Enhanced Open, and user and IoT access policy enforcement firewalls (PEF).

Simplified policy enforcement with the Policy Enforcement Firewall (PEF) that encapsulates all traffic from the AP to the gateway (or mobility controller) for end-to-end encryption and inspection.

For enhanced device assurance, our APs include an installed TPM for secure storage of credentials and keys, and boot code.

Ruggedized and Ready for IoT

The HPE Aruba Networking 670 Series Outdoor Access Points include integrated high-power Bluetooth and Zigbee radios to simplify deploying and managing IoT-based location services, asset tracking services, security solutions, and IoT sensors.

Ruggedized outdoor APs support extended temperatures to address the requirements of a broad range of surface, subsurface, and offshore applications. This series includes 670EX outdoor models that are designed for the most extreme, hazardous locations.

The target wake time (TWT) establishes a schedule for when clients need to communicate with an AP to help improve client power savings and reduce airtime contention with other clients.

Advanced IoT Coexistence (AIC) feature uses built-in filtering to allow Wi-Fi, Bluetooth, and Zigbee radios to operate at higher capacity without the impact of interference.

The intelligent power monitoring (IPM) provides insights into energy consumption, our APs continuously monitor and report hardware energy usage. Unlike the other vendors access points, our APs can also be configured to enable or disable capabilities based on available PoE power.



Technical specifications

HPE Aruba Networking AP-677 (US) Tri Radio 2x2 Wi-Fi 6E Internal Directional Outdoor AP

Product Number	SOP55A
Differentiator	Available in US only
Certifications	Wi-Fi Alliance; Bluetooth SIG; Ethernet Alliance (EO, PoE PD Device Class 6)
Input voltage	IEEE 802.3bt PoE, or direct DC power (through optional power supply)
Regulatory	FCC/ISED; CE Marked; RED Directive 2014/53/EU; EMC Directive 2014/30/EU; Low Voltage Directive 2014/35/EU; IEC/EN 62368-1; EN 60601-1-1, EN60601-1-2; For more country-specific regulatory information and approvals, contact your HPE Aruba Networking representative.
Wi-Fi antenna	AP-677: Internal antenna model - Built-in Directional Antennas - 2.4 GHz Antennas 6.9 dBi - 5 GHz Antennas 6.5 dBi - 6 GHz Antennas 6.9 dBi - BLE/Zigbee: Integrated omnidirectional antenna with peak gain of 4.5 dBi
Ports	(1) 10/100/1000BASE-T RJ-45 port, auto-sensing link speed and MDI/MDX (1) SFP Fiber port
Power consumption	Up to 45.5W maximum
Radio coverage	AP type: Outdoor, tri radio, 2.4GHz, 5GHz and 6GHz (concurrent) 802.11ax 2x2 MIMO; 2.4 GHz radio: Two spatial stream Single User (SU) MIMO for up to 574 Mbps wireless data rate with 2SS HE40 802.11ax client devices; 5 GHz radio: Two spatial stream Single User (SU) MIMO for up to 1.2 Gbps wireless data rate with 2SS HE80 802.11ax client devices; 6 GHz radio: Two spatial stream Single User (SU) MIMO for up to 2.4 Gbps wireless data rate with 2SS HE160 802.11ax client devices; Up to 512 associated client devices per radio, and up to 16 BSSIDs per radio (limited to 8 for the 6GHz radio)
Warranty	Limited lifetime warranty. See the warranty duration.

[1] Bluetooth is a trademark owned by its proprietor and used by Hewlett Packard Enterprise under license. All third-party marks are property of their respective owners.



For additional technical information, available models and options, please reference the [QuickSpecs](#)

HPE Aruba Networking Services

HPE Aruba Networking services simplify and accelerate the network technology lifecycle, enabling your network to scale with better predictability and cost-effectiveness. Whether you operate your own network and need to improve your IT efficiencies, or you want to offload some of the burden, we have the services you need to reach your goals.

Learn more about what HPE Services - Aruba Networking has to offer at: <https://www.hpe.com/edge/services>

Support Services

Our support portfolio provides the essential support elements as well as proactive and preventive features to help you improve your team's productivity and get the most from your network. Our support customers benefit from faster issue resolution, simplified operations and efficiencies, and reduced network issues.

Professional Services

With deep intellectual capital and purpose-built tools, our team delivers a range of standard and custom professional services designed to accelerate your value from HPE Aruba Networking technology.

Project based services include: Annual subscription services include:

- Planning, audit, and assessment
- Architecture review and design
- Deployment, migration, and knowledge transfer
- Network optimization
- Intelligent Operations
- Customer Experience Management

Our [Education Services](#) allow your team to come up to speed quickly.

HPE GreenLake for Networking

Our NaaS solution, is part of the HPE GreenLake services family, and simplifies network operations, accelerates equipment handling, and increases the value of your HPE Aruba Networking solution. If you need expert guidance and automation-based operations for your team, please explore our NaaS approach through HPE GreenLake for Networking.

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