

# HPE Aruba Networking 670 Series Outdoor Access Points

HPE Aruba Networking AP-677 (RW) Tri Radio 2x2 Wi-Fi 6E Internal Directional Outdoor AP (SOP56A)

## What's new

- High performance outdoor Wi-Fi 6E access point ideal for outdoor and environmentally challenging locations.
- Delivers up to 3.9 Gbps maximum aggregate data rates with a tri-radio 2x2:2 MIMO.
- 160MHz channels in 6 GHz support low-latency, bandwidth-hungry applications like high-definition video and AR/VR applications.
- High-power Bluetooth and Zigbee radios to meet Industrial IoT requirements.
- Flexible and fast wired connectivity with 2.5GbE port and 1GbE SFP port.
- Self-locating with embedded GPS receiver and will operate as Standard Power (SP) device.

## Overview

The HPE Aruba Networking 670 Series Outdoor Access Points bring high performance Wi-Fi 6E to outdoor and environmentally challenging locations. The HPE Aruba 670 Series delivers 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 IoT environments.

The HPE Aruba Networking 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 HPE Aruba 670 Series provides high-performance outdoor connectivity you can depend on, delivering up to 3.9Gbps maximum aggregate data rate with a tri-radio 2x2:2 MIMO access point. This series includes the HPE Aruba Networking 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 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.

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 and Air Slice that provides service level agreement-grade performance for

latency-sensitive, high-bandwidth, and IoT services.

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 offers 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.

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.

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, HPE Aruba Networking APs include an installed TPM for secure storage of credentials and keys, and boot code.

### **Ruggedized and Ready for IoT**

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 requirements of a broad range of surface, subsurface, and offshore applications. This series includes HPE Aruba Networking 670EX models that are designed for the most extreme, hazardous locations.

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 maximum capacity without the impact of interference.

Intelligent Power Monitoring (IPM) provides insights into energy consumption, our APs continuously monitor and report hardware energy usage. Unlike other vendor's 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 (RW) Tri Radio 2x2 Wi-Fi 6E Internal Directional Outdoor AP

<b>Product Number</b>	SOP56A
<b>Certifications</b>	FCC/ISED; CE Marked; RED Directive 2014/53/EU; EMC Directive 2014/30/EU; Low Voltage Directive 2014/35/EU; UL/IEC/EN 60950; IEC/EN 62368-1; EN 60601-1-1, EN60601-1-2 For more country-specific regulatory information and approvals, please see your HPE Aruba Networking representative.
<b>Input voltage</b>	IEEE 802.3bt PoE, or direct DC power (via optional power supply)
<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 60950 EN 60601-1-1, EN60601-1-2
<b>Wi-Fi antenna</b>	<p>HPE Aruba Networking AP-675</p> <ul style="list-style-type: none"> <li>- Built in Omnidirectional Antennas</li> <li>- 2.4 GHz Antennas 3.5dBi</li> <li>- 5 GHz Antennas 5dBi</li> <li>- 6 GHz Antennas 5dBi</li> <li>- BLE/Zigbee: Integrated omnidirectional antenna with peak gain of 6dBi</li> </ul> <p>HPE Aruba Networking AP-677</p> <ul style="list-style-type: none"> <li>- Built in Directional Antennas</li> <li>- 2.4 GHz Antennas 5.6dBi</li> <li>- 5 GHz Antennas 6dBi</li> <li>- 6 GHz Antennas 7dBi</li> <li>- BLE/Zigbee: Integrated omnidirectional antenna with peak gain of 8dBi</li> </ul> <p>HPE Aruba Networking AP-679: Internal antenna models</p> <ul style="list-style-type: none"> <li>- Built in Directional Antennas</li> <li>- 2.4 GHz Antennas 6dBi</li> <li>- 5 GHz Antennas <ul style="list-style-type: none"> <li>- Wide 9dBi</li> <li>- Narrow 12dBi</li> </ul> </li> <li>- 6 GHz Antennas <ul style="list-style-type: none"> <li>- Wide 9dBi</li> <li>- Narrow 13dBi</li> </ul> </li> <li>- BLE/Zigbee: Integrated omnidirectional antenna with peak gain of 6dBi</li> </ul>
<b>Ports</b>	(1) 10/100/1000BASE-T RJ-45 port, auto-sensing link speed and MDI/MDX (1) SFP Fiber port
<b>Mounting</b>	AP-OUT-MNT-V1A: Outdoor Pole/Wall Long Mount Kit AP-270-MNT-V2: Outdoor Pole/Wall Short Mount Kit AP-270-MNT-H1: Outdoor AP Hanging or Tilt Install Mount Kit AP-270-MNT-H2: Outdoor Flush Wall or Ceiling Mount AP-270-MNT-H3: Outdoor AP Hanging or Dual-Tilt Install Mount Kit
<b>Power consumption</b>	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 4 for the 6GHz radio)

**Warranty**

HPE Aruba Networking limited lifetime hardware warranty, please visit <https://www.arubanetworks.com/support-services/product-warranties/>

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: [arubanetworks.com/services/](https://www.arubanetworks.com/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, HPE Aruba Networking Managed Connectivity services, part of the HPE GreenLake services family, simplifies network operations, accelerates equipment handling, and increases the value of your HPE Aruba Networking network. If you need expert guidance and automation-based operations for your team, please explore the NaaS approach from HPE Aruba Networking [here](#).



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