HPE Aruba Networking 670 Series Outdoor Access Points

What's new

- High performance outdoor Wi-Fi 6E access points ideal for outdoor and environmentally challenging locations
- It delivers up to 3.9 Gbps peak 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
- High-power Bluetooth and Zigbee radios to meet Industrial IoT requirements
- Flexible and fast-wired connectivity with 2.5GbE port and 1GbE SFP port. The series includes models with internal antennas and new connectorized model that supports external antennas.
- Self-locating with embedded GPS

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 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 Internet of Things (IoT) environments.

The 670 series is 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 provide high performance outdoor connectivity you can depend on, delivering up to 3.9 Gbps peak aggregate data rate with a tri-radio 2x2:2 MIMO AP. This series includes the 670EX models that are designed for the most extreme, hazardous locations.

receiver and will operate as standard power (SP) device

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.

The 670 series provides fast performance with 6 GHz band that delivers up to 1200 MHz additional capacity and 3.6 Gbps peak combined data rate to better support high-bandwidth, low-latency applications such as high-definition video.

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

Enhanced wireless experience with ClientMatch technology removes sticky client issues by steering a client to the AP where it receives one of the best radio signals.

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

Simplified Access with Enhanced Security

The HPE Aruba Networking 670 Series Outdoor Access Points offer enhanced security with dynamic segmentation to mitigate 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.

It offers network protection with stronger encryption and authentication with WPA3, secure credential/key storage for guest access with Enhanced Open, and user and IoT access policy enforcement firewalls (PEFs).

It provides simplified policy enforcement with the 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 access points include installed TPM for secure storage of credentials, 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 access points 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 APs, our APs can also be configured to enable or disable capabilities based on available PoE power.

Technical specifications	HPE Aruba Networking 670 Series Outdoor Access Points
Deployment	Outdoor Ruggedized Hardened
Wi-Fi generation	Wi-Fi 6E (802.11ax with 6 GHz)
Wi-Fi radios	Triple 2x2
Radio configuration options	2.4 GHz and 5 GHz, and 6 GHz
Max bandwidths and peak data rate per band	20/40 (2.4 GHz), 20/40/80 (5 GHz), 20/40/80/160 (6 GHz), peak and maximum peak data rate 3.9 Gbps
Wi-Fi antenna	HPE Aruba Networking 670 Series Outdoor Access Points models: AP-674: Two Nf dual-band (2.4 GHz and 5 GHz) connectors, two Nf 6 GHz connectors, one Nf 2.4 GHz IoT connector (5 dBi antenna included), and one Nf GPS/GNSS connector (30 dBi antenna included) AP-675/AP-675EX: Integrated tri-band omnidirectional antennas for 2x2 MIMO. Built-in antennas are optimized for a horizontally mounted orientation of the access point. The down-tilt angle gain is roughly 5-10°. AP-677/AP-677EX: Integrated tri-band directional antennas for 2x2 MIMO. Built-in antennas are optimized for either wall/pole vertically oriented (or with downtilt), or down-firing in a horizontally mounted orientation of the access point. The antenna beamwidth is approximately 90° x 90°. AP-679/AP-679EX: Integrated tri-band directional antennas for 2x2 MIMO with two different modes for the 5 GHz and 6 GHz antennas (a wider 90 °x 30° antenna, and a narrow 30° x 30°) that are software provisioned. The built-in antennas are optimized for either wall/pole vertically oriented (or with downtilt), or down-firing in a horizontally mounted orientation of the access point.
Ultra tri-band (UTB) filtering	No
IoT support	IEEE 802.15.4/Zigbee, Bluetooth 5.4, 2 x USB ports
Integrated sensor	No
Location services	802.11 FTM support GNSS receiver
Cellular support	No
Wired network interface	1 x 2.5GbE, 1 x SFP
MACsec support	No
AP operating system support	HPE Aruba Networking Wireless Operating System 10.7.0.0 (AP-675, AP-677) HPE Aruba Networking Wireless Operating System 10.7.1.0 (AP-674, AP-679) HPE Aruba Networking Wireless Operating System 8.12.0.0 (Only AP-675, AP-677, and AP-679) HPE Aruba Networking Instant OS 8.12.0.0 (Only AP-675, AP-677, and AP-679, no 6 GHz support with Instant OS)

Technical specifications	HPE Aruba Networking 670 Series Outdoor Access Points
AP management	On-premises Public Cloud Virtual Private Cloud (VPC) as a Service
Certifications	Wi-Fi Alliance® Bluetooth SIG Ethernet Alliance (E0, PoE PD device, class 6) Class 1 Div 2 (EX models only) ATEX Zone 2 (EX models only) IECEx (EX models only)
Regulatory	FCC/ISED CE Marked RED Directive 2014/53/EU IEC/EN/UL 62368-1 IEC/EN60601-1, IEC/EN60601-1-2 EMC directive 2014/30/EU Low Voltage Directive 2014/35/EU The access points operate as standard power devices and, where required, use an automated frequency coordination (AFC) service before enabling the 6 GHz radio. Note that the AP only enables the 6 GHz radio once the standard power requirements are met and the 6 GHz radio is authorized; however the 2.4 GHz and 5 GHz radios function normally regardless of the 6 GHz radio's state. For more country-specific regulatory information and approvals, contact your HPE representative.
Warranty	Limited lifetime warranty. See the warranty duration.
Ports	Ethernet wired network port (RJ-45) SFP Fiber port USB 2.0 host interface (Type C connector) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, USB-C physical jack)

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: 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:

— Planning, audit, and assessment
— Architecture review and design
— Deployment, migration, and knowledge transfer

Annual subscription services include:

— Network optimization
— Intelligent Operations
— Customer Experience Management

Our Education Services allow your team to come up to speed quickly.

GreenLake for Networking

Deliver innovative business outcomes by leveraging new ways to consume, deploy and manage networks.

For additional technical information, available models and options, please reference the QuickSpecs

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

Image may differ from the actual product.

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