

HPE Aruba Networking 560 Series Outdoor Access Points

HPE Aruba Networking AP-565 (EG) 802.11ax Dual 2x2 Radio Integrated Omni Antennas TAA Outdoor AP (R4W50A)



What's new

- Entry-level outdoor Wi-Fi 6 (802.11ax) access points that provide up to 1.49 Gbps peak aggregate data rate and are ideal for outdoor and warehouse environments
- Purpose-built to survive in the harshest outdoor environments and extreme temperatures (-40 °C to +55 °C)
- Ready for Internet of Things (IoT) with a built-in Bluetooth 5 and 802.15.4

Overview

The HPE Aruba Networking 560 Series Outdoor Access Points provide cost-effective Wi-Fi 6 wireless connectivity in outdoor and environmentally challenging locations. With Wi-Fi 6 capabilities, Bluetooth 5 and 802.15.4/Zigbee radios, and maximum aggregate data rate of 1.49 Gbps, the 560 series delivers the speed and reliability needed to bring medium-density Wi-Fi 6 outdoors.

These Wi-Fi 6 outdoor access points are ready to survive high wind, extreme temperatures, and moisture and can be quickly deployed using zero touch provisioning (ZTP). HPE Aruba Networking Central provides a single pane of glass for overseeing wired and wireless LANs, WANs, and virtual private

radio that supports Zigbee

- Small form factor for flexible deployment.
- Client and RF optimization to match clients with the best available access point and reduce coverage gaps
- Dynamic segmentation and policy enforcement firewalls (PEFs) that automatically enforce consistent policies across all networks, keeping users and devices secure

networks (VPNs). AI-powered analytics, end-to-end orchestration and automation, and advanced security features are built natively into the solution. The 560 series outdoor APs include a limited lifetime warranty.

Features

Entry-level Outdoor Wi-Fi 6

HPE Aruba Networking 560 Series Outdoor Access Points are ideal for environmentally challenging locations and can endure extreme temperatures, persistent moisture, precipitation, airborne contaminants, dust, salt sprays, and maximum 165 mph wind speeds.

Weatherproof and temperature hardened, this series can handle temperatures ranging from -40°C to +55°C, including full solar loading.

With peak aggregate data rate of 1.49 Gbps (HE80/HE20), the series delivers the speed and reliability needed for most environments

It supports features such as orthogonal frequency-division multiple access (OFDMA), downlink MIMO (MU-MIMO), and target wait time (TWT).

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

IoT Ready

HPE Aruba Networking 560 Series Outdoor Access Points can serve as IoT platforms that bolster network security and provide coverage for a range of IoT devices without the need for network overlays.

The AP supports Bluetooth 5 and Zigbee wireless protocols through an integrated IoT radio.

Target wake time (TWT) improves battery life of IoT devices.

HPE Aruba Networking Central Client Insights uses deep packet inspection to provide additional context and behavioral information that help verify devices are receiving proper policy enforcement and continuously monitor for rogue devices.

Simple Access With Enhanced Security

The HPE Aruba Networking 560 Series Outdoor Access Points offer enhanced security with dynamic segmentation to remove the time-consuming and error-prone task of managing complex and static VLANs, ACLs, and subnets by dynamically assigning policies and keeping traffic protected and separated.

It offers stronger encryption and authentication with WPA3, protected credentials/keys storage for guest access with Enhanced Open (OWE), and user and IoT access policy enforcement firewalls.

The AP simplifies policy enforcement by using the policy enforcement firewall to encapsulate all traffic from the AP to the gateway (or mobility controller) for end-to-end encryption and inspection.

For enhanced device assurance, the access points include an installed trusted platform module (TPM).

Technical specifications	HPE Aruba Networking AP-565 (EG) 802.11ax Dual 2x2 Radio Integrated Omni Antennas TAA Outdoor AP
Product Number	R4W50A
Deployment	Outdoor
Wi-Fi generation	Wi-Fi 6 (802.11ax)
Wi-Fi radios	Dual 2x2
Radio configuration options	2.4 GHz and 5 GHz
Max bandwidths and peak data rate per band	20/40 (2.4GHz), 20/40/80 (5GHz), peak data rate 1.49 Gbps, maximum data rate 1.78 Gbps
Wi-Fi antenna	Built-in omnidirectional antennas with 5.4 dBi gain maximum, for 5 GHz antennas and 3.2 dBi gain maximum for 2.4 GHz antennas
Ultra tri-band (UTB) filtering	No
IoT support	IEEE 802.15.4/Zigbee or Bluetooth 5
Integrated sensor	No
Location services	802.11 FTM support
Cellular support	No
Wired network interface	1 x 1GbE
MACsec support	No
AP operating system support	HPE Aruba Networking Wireless Operating System 8 and HPE Aruba Networking Instant OS 8.7.1.0 HPE Aruba Networking Wireless Operating System 10.3.0.0
AP management	On-premises Public Cloud Virtual Private Cloud (VPC) as a Service
Certifications	CB Scheme Safety, cTUVus UL2043 plenum rating Wi-Fi Alliance® certified 802.11a/b/g/n/ Wi-Fi Alliance certified Wi-Fi 6 (802.11ax) Wi-Fi CERTIFIED® ac (with wave 2 features) Wi-Fi CERTIFIED Location

Regulatory

FCC/ISED
 CE Marked
 RED Directive 2014/53/EU
 EMC Directive 2014/30/EU
 Low Voltage Directive 2014/35/EU
 IEC/EN/UL 62368-1
 EN 60601-1-1, EN60601-1-2

Railway Certs:
 EN 50155:2017—Railway Applications
 EN 50121-1:2017—Railway EMC
 EN 50121-3-2—Railway EMC
 EN 50121-4:2016—Railway Immunity
 IEC 61373 ed2:2008—Railway Shock and Vibration
 For more country-specific regulatory information and approvals, contact your HPE representative.

Warranty

Limited lifetime warranty. See the warranty duration.

Weight

1.03 kg

Product dimensions

165 x 165 x 130 mm

Ports

EO: 10/100/1000BASE-T (RJ-45)
 USB-C console interface

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.

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.

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

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