

HPE Aruba Networking 580 Series Outdoor Access Points

HPE Aruba Networking AP-585 (RW) Dual Radio 4x4 802.11ax Internal Omni Ants Unified TAA Outdoor AP (R7T20A)



What's new

- Outdoor Wi-Fi 6 access points provide peak aggregate data rate of 2.97 Gbps
- Purpose built to survive in the harshest outdoor environments and extreme temperatures (-40°C to +65°C) with IP66/67 ratings
- Flexible connectivity and power options with support for 5 Gbps multi-gigabit Ethernet ports and 802.3bt Class 6 power or AC power

Overview

HPE Aruba Networking 580 Series Outdoor Access Points are our flagship Wi-Fi 6 outdoor APs purpose built to survive the harshest outdoor environments. With Wi-Fi 6 capabilities, high power Bluetooth and 802.15.4/Zigbee radios, and peak aggregate data rate of 2.97 Gbps, the 580 series delivers the speed and reliability needed for large enterprises and Industrial Internet of Things (IoT) deployments.

These high-performance Wi-Fi 6 outdoor access points are IP66/67 rated 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,

- Bluetooth and 802.15.4/Zigbee radios with high power to meet Industrial IoT requirements
 - Client and RF optimization to match clients with the best available access point and reduce coverage gaps
- WANs, and VPNs. AI-powered analytics, end-to-end orchestration and automation, and advanced security features are built natively into the solution. The 580 series outdoor APs include a limited lifetime warranty.

Features

High Performance Wi-Fi 6 APs Designed For Outdoors

HPE Aruba Networking 580 Series Outdoor Access Points are ideal for large scale outdoor environments including universities, large enterprises, and industrial applications and provide peak aggregate data rate of 2.97 Gbps.

The AP includes options for 5G Ethernet, SFP+, and PSE out for flexible connectivity.

It includes features such as OFDMA, bidirectional MU-MIMO, and target wait time (TWT) for better multi-user performance and improved efficiency.

It offers enhanced wireless experience with HPE Aruba Networking ClientMatch technology that removes sticky client issues by steering a client to the AP where it receives a strong radio signal.

Dual redundant power/port failover and support for AC provide high availability with uninterrupted performance.

Weatherproof and Temperature Hardened

HPE Aruba Networking 580 Series Outdoor Access Points can withstand extreme temperatures, persistent moisture and precipitation, and are fully sealed to keep out airborne contaminants.

Weatherproof and temperature hardened, this series can handle temperatures ranging from -40°C to +65°C, including full sun deployments.

The 580 series is IP66/67 rated with industrial surge protection.

The 580 series includes models with integrated, high-power antennas for increased performance and coverage, as well as a connectorized model that supports external antennas.

Industrial IoT Ready

HPE Aruba Networking 580 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 580 series provides high power Bluetooth and 802.15.4/Zigbee radios for increased IoT coverage.

The intelligent power monitoring (IPM) feature provides the ability to enable or disable capabilities based on available Power over Ethernet (PoE) power.

The target wake time (TWT) improves the 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.

Enhanced Security

The HPE Aruba Networking 580 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, and user and IoT access policy enforcement firewalls (PEFs).

The 580 series simplifies policy enforcement by using the PEF to encapsulate 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 trusted platform module (TPM) for protected storage of credentials, keys, and boot code.

Technical specifications	HPE Aruba Networking AP-585 (RW) Dual Radio 4x4 802.11ax Internal Omni Ants Unified TAA Outdoor AP
Product Number	R7T20A
Deployment	Outdoor
Wi-Fi generation	Wi-Fi 6 (802.11ax)
Wi-Fi radios	Dual 4x4
Radio configuration options	2.4 GHz + 5 GHz
Max bandwidths and peak data rate per band	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), peak data rate 2.97 Gbps, maximum data rate 3.55 Gbps
Wi-Fi antenna	Built in omni-directional antennas (H and V polarized), 5 GHz Antennas 4.5 dBi uncorrelated avg (5.8 dBi peak), 2.4 GHz Antennas 3.0 dBi uncorrelated avg (4.4 dBi peak), BLE Antenna 4.8 dBi peak.
Ultra tri-band (UTB) filtering	No
IoT support	IEEE 802.15.4/Zigbee, Bluetooth 5
Integrated sensor	No
Location services	802.11 FTM support GNSS receiver
Cellular support	No
Wired network interface	1x 5GE, 1x SFP+, 1x 1GbE PSE
MACsec support	No
AP operating system support	HPE Aruba Networking Wireless Operating System 8 and HPE Aruba Networking Instant OS 8 HPE Aruba Networking Operating System OS10
AP management	On-premises Public Cloud Virtual Private Cloud (VPC) as a Service
Certifications	Wi-Fi Alliance Bluetooth SIG Ethernet Alliance (EO, PoE PD device, class 6; E2, PoE PSE device, class 3)

Regulatory	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 IEC 60950-22 IEC/EN60601-1-2 EN 50155 For more country-specific regulatory information and approvals, contact your HPE representative.
Warranty	Limited lifetime warranty. See the warranty duration.
Weight	5.24 kg
Product dimensions	32 x 32.4 x 31.3 cm (H x W x D)
Ports	Ethernet wired port (RJ-45) Ethernet wired port (RJ-45) PSE Ethernet wired port (SFP+) USB-C console interface

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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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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.

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