HPE Aruba Networking 580 Series Outdoor Access Points

HPE Aruba Networking AP-585 (RW) Dual Radio 4x4 802.11ax Internal Omni Antennas Unified Outdoor AP (R7T05A)

What's new

- Outdoor Wi-Fi 6 access points provide maximum aggregate data rate of 2.97 Gbps.

- Purpose built to survive in the harshest outdoor environments and extreme temperatures (-40 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

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 maximum aggregate data rate of 2.97 Gbps, the 580 series delivers the speed and reliability needed for large enterprise and Industrial IoT deployments.

These high-performance Wi-Fi 6 outdoor APs are IP66/67 rated to survive high wind, extreme temperatures, and moisture and can be quickly deployed using zero touch provisioning. HPE Aruba Networking Central provides a single pane of glass for overseeing wired and wireless LANs,

or AC power.

- [1] 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. AIpowered analytics, endtoend 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 maximum 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 for better multi-user performance and improved efficiency.

Enhanced wireless experience with HPE Aruba Networking ClientMatch technology removes sticky client issues by steering a client to the AP where it receives the best 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 -40C to +65˚C, including full sun deployments.

IP66/67 rated with industrial surge protection.

The AP includes models with integrated, high-power antennas for increased performance and coverage as well as 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 AP provides high power Bluetooth and 802.15.4/Zigbee radios for increased IoT coverage.

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

The 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.

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.

The AP simplifies policy enforcement by using the Policy Enforcement Firewall (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 and keys, and boot code.

Technical specifications

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

Product Number	R7T05A
Differentiator	Aruba 580 Series Outdoor Access Points are Wi-Fi 6 certified and include high speed interfaces and multiple connectivity and power options. With 2.97 Gbps maximum aggregate data rates, they can support the most demanding environments.
Certifications	Wi-Fi Alliance Bluetooth SIG Ethernet Alliance (E0, PoE PD device, class 6; E2, PoE PSE device, class 3)
Input voltage	IEEE 802.3 at PoE, or direct AC power (via optional power supply) AC power interface: 110-240V (requires AP-AC-MLX power connector kit)
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
Wi-Fi antenna	Built in omni-directional antennas (H and V polarized), 5Ghz Antennas 4.5dBi uncorrelated avg (5.8dBi peak), 2.4GHz Antennas 3.0dBi uncorrelated avg (4.4dBi peak), BLE Antenna 4.8dBi peak
Mounting	Optional mounting kits: AP-OUT-MNT-V1A: Outdoor Pole/Wall Long 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
Power consumption	The AP supports direct AC power and Power over Ethernet (802.3bt PoE; on port E0 only). When both AC and PoE power sources are available, AC power takes priority over PoE. Power sources are sold separately. Maximum (worst-case) power consumption: AC powered: 71 W (802.3af/at*). PoE powered (802.3bt Class 6): 49.5 W (802.3af PSE only). PoE powered (802.3bt Class 5 with LLDP): 35.5 W (no PSE). PoE powered (802.3at, IPM disabled): 25.5 W (1 chain at 2.4 Ghz, 3 chains at 5 Ghz, no PSE). Maximum (worst-case) power consumption in idle mode: 9.2 W (POE) or 10.8 W (AC). Maximum (worst-case) power consumption in deep-sleep mode: 3.0W (PoE) or 4.4W (AC). NOTE: *Full 802.3 at power may not be available at maximum temperature.
Radio coverage	Outdoor-hardened, Wi-Fi 6 dual radio, 5 GHz 4x4 MIMO and 2.4 GHz 2x2 MIMO Software-configurable dual radio supports 5 GHz (Radio 0) and 2.4 GHz (Radio 1) Maximum data rates of 4.8 Gbps in the 5 GHz band and 575 Mbps in the 2.4 GHz band
Warranty	Limited lifetime warranty. Visit Product Warranty for warranty and support information included with your product purchase.

Product dimensions (metric)	32 x 32.4 x 31.3 cm (H x W x D)
Weight	5.24 kg

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/

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, 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.

Make the right purchase decision.
Contact our presales specialists.

Contact us

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