HPE Aruba Networking 580 Series Outdoor Access Points

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
- 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

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, 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 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 580 Series Outdoor Access Points
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	AP-584: Four Nf connectors for external dual-band antennas (Wi-Fi 0 through Wi-Fi 3, corresponding with radio chains 0 through 3), and one Nf connector for BT (includes 5 dBi 2.4 GHz omni-directional antenna). AP-585: Four integrated dual-band omnidirectional antennas for 4x4 MIMO, Built-in antennas for a horizontally mounted orientation of the access point. The down-tilt angle gain is roughly 10°. AP-587: Four integrated 90°H x 90°V dual-band directional antennas for 4x4 MIMO. Built-in antennas for a vertically oriented installation to a wall or pole.
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
Ports	Ethernet wired port (RJ-45) Ethernet wired port (RJ-45) PSE Ethernet wired port (SFP+) USB-C console interface
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 (E0, PoE PD device, class 6; E2, PoE PSE device, class 3)

Technical specifications	HPE Aruba Networking 580 Series Outdoor Access Points
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.

SKU overview

SKU	Description
R7T01A	HPE Aruba Networking AP-584 (EG) Dual Radio 4x4 802.11ax External Antennas Unified Outdoor AP
R7T16A	HPE Aruba Networking AP-584 (EG) Dual Radio 4x4 802.11ax External Antennas Unified TAA Outdoor AP
S5E03A	HPE Aruba Networking AP-584 (ID) Dual Radio 4x4 802.11ax External Antennas Outdoor Access Point
R7T02A	HPE Aruba Networking AP-584 (IL) Dual Radio 4x4 802.11ax External Antennas Unified Outdoor AP
R7T17A	HPE Aruba Networking AP-584 (IL) Dual Radio 4x4 802.11ax External Antennas Unified TAA Outdoor AP
R7T03A	HPE Aruba Networking AP-584 (JP) Dual Radio 4x4 802.11ax External Antennas Unified Outdoor AP
R7T18A	HPE Aruba Networking AP-584 (JP) Dual Radio 4x4 802.11ax External Antennas Unified TAA Outdoor AP
R7T00A	HPE Aruba Networking AP-584 (RW) Dual Radio 4x4 802.11ax External Antennas Unified Outdoor AP
R7T15A	HPE Aruba Networking AP-584 (RW) Dual Radio 4x4 802.11ax External Antennas Unified TAA Outdoor AP
R7S99A	HPE Aruba Networking AP-584 (US) Dual Radio 4x4 802.11ax External Antennas Unified Outdoor AP
R7T14A	HPE Aruba Networking AP-584 (US) Dual Radio 4x4 802.11ax External Antennas Unified TAA Outdoor AP
R7T06A	HPE Aruba Networking AP-585 (EG) Dual Radio 4x4 802.11ax Internal Omni Antennas Unified Outdoor AP
R7T21A	HPE Aruba Networking AP-585 (EG) Dual Radio 4x4 802.11ax Internal Omni Ants Unified TAA Outdoor AP
S5D99A	HPE Aruba Networking AP-585 (ID) Dual Radio 4x4 802.11ax Internal Omni Antennas Outdoor Access Point
R7T07A	HPE Aruba Networking AP-585 (IL) Dual Radio 4x4 802.11ax Internal Omni Antennas Unified Outdoor AP
R7T22A	HPE Aruba Networking AP-585 (IL) Dual Radio 4x4 802.11ax Internal Omni Ants Unified TAA Outdoor AP
R7T08A	HPE Aruba Networking AP-585 (JP) Dual Radio 4x4 802.11ax Internal Omni Antennas Unified Outdoor AP
R7T23A	HPE Aruba Networking AP-585 (JP) Dual Radio 4x4 802.11ax Internal Omni Ants Unified TAA Outdoor AP
R7T05A	HPE Aruba Networking AP-585 (RW) Dual Radio 4x4 802.11ax Internal Omni Antennas Unified Outdoor AP
R7T20A	HPE Aruba Networking AP-585 (RW) Dual Radio 4x4 802.11ax Internal Omni Ants Unified TAA Outdoor AP
R7T04A	HPE Aruba Networking AP-585 (US) Dual Radio 4x4 802.11ax Internal Omni Antennas Unified Outdoor AP
R7T19A	HPE Aruba Networking AP-585 (US) Dual Radio 4x4 802.11ax Internal Omni Ants Unified TAA Outdoor AP
R7T26A	HPE Aruba Networking AP-587 (EG) Dual Radio 4x4 Wi-Fi 6 Internal Directional Outdoor Access Point
R7T11A	HPE Aruba Networking AP-587 (EGF1) Dual Radio 4x4 Wi-Fi 6 Internal Directional TAA Outdoor AP
S5E00A	HPE Aruba Networking AP-587 (ID) Dual Radio 4x4 802.11ax Internal Directional Ants Outdoor AP
R7T12A	HPE Aruba Networking AP-587 (IL) Dual Radio 4x4 Wi-Fi 6 Internal Directional TAA Outdoor AP

R7T27A	HPE Aruba Networking AP-587 (ILF1) Dual Radio 4x4 Wi-Fi 6 Internal Directional TAA Outdoor AP
R7T13A	HPE Aruba Networking AP-587 (JP) Dual Radio 4x4 Wi-Fi 6 Internal Directional Outdoor Access Point
R7T28A	HPE Aruba Networking AP-587 (JPF1) Dual Radio 4x4 Wi-Fi 6 Internal Directional TAA Outdoor AP
R7T10A	HPE Aruba Networking AP-587 (RW) Dual Radio 4x4 Wi-Fi 6 Internal Directional Outdoor Access Point
R7T25A	HPE Aruba Networking AP-587 (RWF1) Dual Radio 4x4 Wi-Fi 6 Internal Directional TAA Outdoor AP
R7T09A	HPE Aruba Networking AP-587 (US) Dual Radio 4x4 Wi-Fi 6 Internal Directional Outdoor Access Point
R7T24A	HPE Aruba Networking AP-587 (USF1) Dual Radio 4x4 Wi-Fi 6 Internal Directional TAA Outdoor AP

Related Options

The following options are available for these series:

SKU	Description
Enterprise Networking Products	
S0A65A	HPE Aruba Networking ANT-4x4-D707 Dual-Band 60x60deg 7dBi Panel V/H/+/-45 4 Element MIMO Outdoor Ant
Q8N47A	HPE Aruba Networking Otdr AP Covers/Glands 1pk M25/5pk M20 Cover and Gland/2pk M16 Cover Ground Kit
Q8N48A	HPE Aruba Networking Outdoor AP Metric to Standard M20 to 1/2 inch NPT 5-pk Thread Adapter
Q8N54A	HPE Aruba Networking Outdoor SFP Weathertight Strain Relief Kit
Mounting Rack/Rail Options	
R6W11A	HPE Aruba Networking AP-270-MNT-H3 Outdoor AP Hanging Dual-Tilt Pole/Wall Mounting Bracket
R9H97A	HPE Aruba Networking AP-OUT-MNT-V1A Outdoor AP Long Arm Pole/Wall Mounting Bracket
Power Management Options	
R1C73A	HPE Aruba Networking AP-POE-BTSR 1-Port Smart Rate 802.3bt 60W Midspan Injector
R8Q74A	HPE Aruba Networking Outdoor AP-AC-MLX Outdoor Molex AC Power Connector Kit
R7T40A	HPE Aruba Networking PD-9501-5GCO-AC 60W 802.3bt Smart Rate Otdr Surge Protection Midspan Injector
R7T41A	HPE Aruba Networking PD-9501-5GCO-DC 60W 802.3bt Smart Rate Otdr Surge Protection Midspan Injector
Private and Hybrid Cloud	
Q9Y63AAE	HPE Aruba Networking Central AP Advanced 1 year Subscription E-STU
Q9Y64AAE	HPE Aruba Networking Central AP Advanced 3 year Subscription E-STU
Q9Y65AAE	HPE Aruba Networking Central AP Advanced 5 year Subscription E-STU
Q9Y66AAE	HPE Aruba Networking Central AP Advanced 7 year Subscription E-STU
Q9Y67AAE	HPE Aruba Networking Central AP Advanced 10 year Subscription E-STU
Q9Y58AAE	HPE Aruba Networking Central AP Foundation 1-year Subscription E-STU
Q9Y59AAE	HPE Aruba Networking Central AP Foundation 3 year Subscription E-STU
Q9Y60AAE	HPE Aruba Networking Central AP Foundation 5 year Subscription E-STU
Q9Y62AAE	HPE Aruba Networking Central AP Foundation 10 year Subscription E-STU
R6U63AAE	HPE Aruba Networking Central on Prem AP Foundation 1 year Subscription E-STU
R6U64AAE	HPE Aruba Networking Central on Prem AP Foundation 3 year Subscription E-STU
R6U65AAE	HPE Aruba Networking Central on Prem AP Foundation 5 year Subscription E-STU
R6U66AAE	HPE Aruba Networking Central on Prem AP Foundation 7 year Subscription E-STU
R6U67AAE	HPE Aruba Networking Central on Prem AP Foundation 10 year Subscription E-STU

Transceiver Options	
JL781A	HPE Aruba Networking 1G Ind-Temp SFP LC LX 10km SMF Transceiver
JL780A	HPE Aruba Networking 1G Ind-Temp SFP LC SX 500m MMF Transceiver
JL783A	HPE Aruba Networking 10G Ind-Temp SFP+ LC LR 10km SMF Transceiver
JL782A	HPE Aruba Networking 10G Ind-Temp SFP+ LC SR 300m MMF Transceiver
Wireless Devices	
S1E83A	HPE Aruba Networking AP-503 (RW) 10-Pack Dual Radio 2x2:2 Wi-Fi 6 Campus Access Point
S1E84A	HPE Aruba Networking AP-503 (US) 10-Pack Dual Radio 2x2:2 Wi-Fi 6 Campus Access Point

Related Services

The following services are available for these series:

SKU	Description
Technology Services	
H34YNE	HPE Networking Services-Essential Care 1 Year Next Day HW Support AP-58X
H34XWE	HPE Networking Services-Essential Care 1 Year Next Day HW Support AP-58XTAA
H34YME	HPE Networking Services-Essential Care 1 Year Next Day Support AP-58X
H34XVE	HPE Networking Services-Essential Care 1 Year Next Day Support AP-58XTAA
H34ZGE	HPE Networking Services-Essential Care 1 Year Next Day Volume T1 Support AP-58X
H34TSE	HPE Networking Services-Essential Care 1 Year Next Day Volume T1 Support AP-58XTAA
H34ZHE	HPE Networking Services-Essential Care 1 Year Next Day Volume T2 Support AP-58X
H34TTE	HPE Networking Services-Essential Care 1 Year Next Day Volume T2 Support AP-58XTAA
H34YQE	HPE Networking Services-Essential Care 1 Year Same Day Support AP-58X
H34XXE	HPE Networking Services-Essential Care 1 Year Same Day Support AP-58XTAA
H34ZLE	HPE Networking Services-Essential Care 1 Year Same Day Volume T1 Support AP-58X
H34TXE	HPE Networking Services-Essential Care 1 Year Same Day Volume T1 Support AP-58XTAA
H34ZME	HPE Networking Services-Essential Care 1 Year Same Day Volume T2 Support AP-58X
H34TYE	HPE Networking Services-Essential Care 1 Year Same Day Volume T2 Support AP-58XTAA
H34YRE	HPE Networking Services-Essential Care 3 Year Next Day HW Support AP-58X
H34XYE	HPE Networking Services-Essential Care 3 Year Next Day HW Support AP-58XTAA
H34YSE	HPE Networking Services-Essential Care 3 Year Next Day Support AP-58X
H34XZE	HPE Networking Services-Essential Care 3 Year Next Day Support AP-58XTAA
H34ZTE	HPE Networking Services-Essential Care 3 Year Next Day Volume T1 Support AP-58X
H34VFE	HPE Networking Services-Essential Care 3 Year Next Day Volume T1 Support AP-58XTAA

H34ZVE	HPE Networking Services-Essential Care 3 Year Next Day Volume T2 Support AP-58X
H34VGE	HPE Networking Services-Essential Care 3 Year Next Day Volume T2 Support AP-58XTAA
H34YTE	HPE Networking Services-Essential Care 3 Year Same Day Support AP-58X
H34YBE	HPE Networking Services-Essential Care 3 Year Same Day Support AP-58XTAA
H34ZYE	HPE Networking Services-Essential Care 3 Year Same Day Volume T1 Support AP-58X
H34VKE	HPE Networking Services-Essential Care 3 Year Same Day Volume T1 Support AP-58XTAA
H34ZE	HPE Networking Services-Essential Care 3 Year Same Day Volume T2 Support AP-58X
H34VLE	HPE Networking Services-Essential Care 3 Year Same Day Volume T2 Support AP-58XTAA
H34YYE	HPE Networking Services-Essential Care 5 Year Next Day HW Support AP-58X
H34YGE	HPE Networking Services-Essential Care 5 Year Next Day HW Support AP-58XTAA
H34YZE	HPE Networking Services-Essential Care 5 Year Next Day Support AP-58X
H34YHE	HPE Networking Services-Essential Care 5 Year Next Day Support AP-58XTAA
H34WYE	HPE Networking Services-Essential Care 5 Year Next Day Volume T1 Support AP-58X
H34WE	HPE Networking Services-Essential Care 5 Year Next Day Volume T1 Support AP-58XTAA
H34WZE	HPE Networking Services-Essential Care 5 Year Next Day Volume T2 Support AP-58X
H34WGE	HPE Networking Services-Essential Care 5 Year Next Day Volume T2 Support AP-58XTAA
H34ZBE	HPE Networking Services-Essential Care 5 Year Same Day Support AP-58X
H34YJE	HPE Networking Services-Essential Care 5 Year Same Day Support AP-58XTAA
H34XDE	HPE Networking Services-Essential Care 5 Year Same Day Volume T1 Support AP-58X
H34WKE	HPE Networking Services-Essential Care 5 Year Same Day Volume T1 Support AP-58XTAA
H34XFE	HPE Networking Services-Essential Care 5 Year Same Day Volume T2 Support AP-58X
H34WLE	HPE Networking Services-Essential Care 5 Year Same Day Volume T2 Support AP-58XTAA

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

Visit HPE.com

Chat now

© Copyright 2026 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

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.

PSN1014646880HKEN, November, 2026.

HEWLETT PACKARD ENTERPRISE

hpe.com