HPE Aruba Networking 580EX Series Hazardous Location Access Points



What's new

- Purpose-built to survive in one of the harshest outdoor environments with hazardous location Class 1 Division 2, ATEX Zone 2, and IP66 rating for hazardous locations
- Wi-Fi 6 capabilities to deliver multi-gigabit performance and speed with a peak aggregate data rate of 2.97 Gbps
- The access point supports Gbps multi-gigabit Ethernet ports and 802.3bt Class 6 power or AC power included; no need for add-on AC power adapters

Overview

HPE Aruba Networking 580EX Series Hazardous Location Access Points are weatherproofed and temperature hardened to support hazardous environments, including outdoor oil rigs, industrial manufacturing, and transportation sites. With Wi-Fi 6 capabilities, high power Bluetooth and 802.15.4/Zigbee radios, and a peak aggregate data rate of 2.97 Gbps, the 580EX series delivers the speed and reliability needed for demanding Industrial Internet of Things (IoT) environments.

Purpose-built to survive one of the harshest outdoor environments, the 580EX series withstands exposure to extreme high and low temperatures and persistent moisture, is fully sealed to keep out airborne contaminants, and includes industrial surge protection. The 580EX series offers flexible power and management options to meet the needs of diverse environments and can be deployed using existing mounts. The 580EX series is Wi-Fi 6

- Features high-power Bluetooth and 802.15.4/Zigbee support for Industrial IoT
- Seamless connectivity with RF automation (HPE Aruba Networking AirMatch), client optimization (HPE Aruba Networking ClientMatch), and AIOps (AI insights) for built-in configuration recommendations

certified and backed by a limited lifetime warranty.

Features

High Performance Ruggedized Outdoor Wi-Fi 6 APs

HPE Aruba Networking 580EX Series Hazardous Location Access Points are designed for hazardous environments, including outdoor oil rigs, industrial manufacturing, and transportation sites and provide a peak aggregate data rate of 2.97 Gbps.

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

It improves efficiency and security with Wi-Fi 6 capabilities including MU-MIMO, OFDMA, WPA3, and Enhanced Open.

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

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

Weatherproof and Temperature Hardened

HPE Aruba Networking 580EX Series Hazardous Location Access Points meet the needs of hazardous locations with Class 1, Division 2, and ATEX Zone 2 certifications like outdoor oil rigs, industrial manufacturing, and transportation sites.

The APs are ruggedized and tested for -40°C to +65°C, including full sun deployments.

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

The APs can withstand extreme temperatures, persistent moisture, precipitation, and are fully sealed to keep out airborne contaminants.

Industrial IoT Ready

HPE Aruba Networking 580EX Series Hazardous Location 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 and include integrated, high-power antennas for increased performance and coverage.

The AP provides high-power Bluetooth and 802.15.4/Zigbee radios for increased IoT coverage.

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

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

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 580EX Series Hazardous Location Access Points offer enhanced security with dynamic segmentation to remove time-consuming, error-prone tasks of managing complex and static VLANs, ACLs and subnets by dynamically assigning policies and keeping traffic protected and separated.

The AP 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 (PEF).

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

For enhanced device assurance, the HPE Aruba Networking 580EX Series Hazardous Location Access Points include an installed trusted platform module (TPM) for protected storage of credentials, keys, and boot code.

Technical specifications	HPE Aruba Networking 580EX Series Hazardous Location Access Points
Deployment	Outdoor Ruggedized Hardened
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-585EX: 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-587EX: 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 10
AP management	On-premises Public Cloud Virtual Private Cloud (VPC) as a Service

Technical specifications	HPE Aruba Networking 580EX Series Hazardous Location Access Points
Certifications	Wi-Fi Alliance® Bluetooth SIG Ethernet Alliance (E0, PoE PD device, Class 6; E2, PoE PSE device, Class 3) Class 1 Div 2 ATEX Zone 2 IECEx
Regulatory	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU IEC 60950-22 UL/IEC/EN 62368-1 IEC/EN60601-1-2 EN 50155 EN IEC 60079-0 EN IEC 60079-7 IEC 60079-0 IEC 60079-7 CSA C22.2 No.213-17 UL 121201 UL 50E For more country-specific regulatory information and approvals, contact your HPE representative.
Warranty	Limited lifetime warranty. See the warranty duration.

SKU overview

SKU	Description
R7T31A	HPE Aruba Networking AP-585EX (EG) Dual Radio 4x4 802.11ax Internal Omni Ants Unified HazLoc AP
S5E01A	HPE Aruba Networking AP-585EX (ID) Dual Radio 4x4 802.11ax Internal Omni Antennas HazLoc AP
R7T32A	HPE Aruba Networking AP-585EX (IL) Dual Radio 4x4 802.11ax Internal Omni Ants Unified HazLoc AP
R7T33A	HPE Aruba Networking AP-585EX (JP) Dual Radio 4x4 802.11ax Internal Omni Ants Unified HazLoc AP
R7T30A	HPE Aruba Networking AP-585EX (RW) Dual Radio 4x4 802.11ax Internal Omni Ants Unified HazLoc AP
R7T29A	HPE Aruba Networking AP-585EX (US) Dual Radio 4x4 802.11ax Internal Omni Ants Unified HazLoc AP
R7T36A	HPE Aruba Networking AP-587EX (EG) Dual Radio 4x4 Wi-Fi 6 Internal Directional HazLoc Access Point
S5E02A	HPE Aruba Networking AP-587EX (ID) Dual Radio 4x4 802.11ax Internal Directional Ants HazLoc AP
R7T37A	HPE Aruba Networking AP-587EX (IL) Dual Radio 4x4 Wi-Fi 6 Internal Directional HazLoc Access Point
R7T38A	HPE Aruba Networking AP-587EX (JP) Dual Radio 4x4 Wi-Fi 6 Internal Directional HazLoc Access Point
R7T35A	HPE Aruba Networking AP-587EX (RW) Dual Radio 4x4 Wi-Fi 6 Internal Directional HazLoc Access Point
R7T34A	HPE Aruba Networking AP-587EX (US) Dual Radio 4x4 Wi-Fi 6 Internal Directional HazLoc Access Point

Related Options

The following options are available for these series:

SKU	Description
Enterprise Networking Products	
Q8N47A	HPE Aruba Networking Otdr AP Covers/Glands 1pk M25/5pk M20 Cover and Gland/2pk M16 Cover Ground Kit
Mounting Rack/Rail Options	
R6W11A	HPE Aruba Networking AP-270-MNT-H3 Outdoor AP Hanging Dual-Tilt Pole/Wall Mounting Bracket
Power Management Options	
R1C73A	HPE Aruba Networking AP-POE-BTSR 1-Port Smart Rate 802.3bt 60W Midspan Injector
R9E56A	HPE Aruba Networking Outdoor AP-AC-MLX-EX 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
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	
H34SHE	HPE Aruba Networking Foundational Care 1Y 4HR Exch AP-58x EX SVC
H34TDE	HPE Aruba Networking Foundational Care 1Y 4HR Exch Vol T1 AP-58x EX SVC
H34TFE	HPE Aruba Networking Foundational Care 1Y 4HR Exch Vol T2 AP-58x EX SVC

H34SFE	HPE Aruba Networking Foundational Care 1Y NBD Exch AP-58x EX SVC
H34SGE	HPE Aruba Networking Foundational Care 1Y NBD Exch Hardware Only AP-58x EX SVC
H34SYE	HPE Aruba Networking Foundational Care 1Y NBD Exch Vol T1 AP-58x EX SVC
H34SZE	HPE Aruba Networking Foundational Care 1Y NBD Exch Vol T2 AP-58x EX SVC
H34SLE	HPE Aruba Networking Foundational Care 3Y 4HR Exch AP-58x EX SVC
H34PWE	HPE Aruba Networking Foundational Care 3Y 4HR Exch Vol T1 AP-58x EX SVC
H34PXE	HPE Aruba Networking Foundational Care 3Y 4HR Exch Vol T2 AP-58x EX SVC
H34SKE	HPE Aruba Networking Foundational Care 3Y NBD Exch AP-58x EX SVC
H34SJE	HPE Aruba Networking Foundational Care 3Y NBD Exch Hardware Only AP-58x EX SVC
H34TLE	HPE Aruba Networking Foundational Care 3Y NBD Exch Vol T1 AP-58x EX SVC
H34TME	HPE Aruba Networking Foundational Care 3Y NBD Exch Vol T2 AP-58x EX SVC
H34STE	HPE Aruba Networking Foundational Care 5Y 4HR Exch AP-58x EX SVC
H34QWE	HPE Aruba Networking Foundational Care 5Y 4HR Exch Vol T1 AP-58x EX SVC
H34QXE	HPE Aruba Networking Foundational Care 5Y 4HR Exch Vol T2 AP-58x EX SVC
H34SSE	HPE Aruba Networking Foundational Care 5Y NBD Exch AP-58x EX SVC
H34SRE	HPE Aruba Networking Foundational Care 5Y NBD Exch Hardware Only AP-58x EX SVC
H34QRE	HPE Aruba Networking Foundational Care 5Y NBD Exch Vol T1 AP-58x EX SVC
H34QSE	HPE Aruba Networking Foundational Care 5Y NBD Exch Vol T2 AP-58x EX SVC

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 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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