

HPE Aruba Networking 580EX Series Hazardous Location Access Points

HPE Aruba Networking AP-585EX (US) Dual Radio 4x4 802.11ax Internal
Omni Ants Unified HazLoc AP (R7T29A)



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

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.

- 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
- 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

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 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 AP-585EX (US) Dual Radio 4x4 802.11ax Internal Omni Ants Unified HazLoc AP
Product Number	R7T29A
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 models: Built-in omni-directional antennas (H and V polarized): 5 GHz 4.5 dBi uncorrelated avg (5.8 dBi peak), 2.4 GHz 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 10
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) Class 1 Div 2 ATEX Zone 2 IECEX

Regulatory	<p>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.</p>
Warranty	<p>Limited lifetime warranty. See the warranty duration.</p>
Weight	<p>5.24 kg</p>
Product dimensions	<p>32 x 32.4 x 31.3 cm (H x W x D)</p>
Ports	<p>Ethernet wired port (RJ-45) Ethernet wired port (RJ-45) PSE Ethernet wired port (SFP+) USB-C console interface</p>

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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