

HPE Aruba Networking CX 8325 Switch Series

HPE Aruba Networking CX 8325-48Y8C Power-to-Port Airflow 6 Fans 2 Power Supply Units Bundle (R9F65A)



What's new

- High-performance with 2000 Mpps. HPE Aruba Networking designed the data center for core/aggregation in the campus or top-of-rack (ToR) or end of row (EoR)
- AOS-CX delivers automation and programmability using built-in REST APIs and Python scripts. High-availability with industry-leading VSX redundancy, and redundant power supplies and fans
- Intelligent monitoring, visibility, and remediation with HPE Aruba Networking CX Network Analytics Engine and dynamic VXLAN for deep segmentation in data center and campus networks with BGP-EVPN
- Compact 1U switches with 1GbE, 10GbE, 25GbE, 40GbE, and 100GbE connectivity.

Overview

The HPE Aruba Networking CX 8325 Switch Series serves as both a campus (core and aggregation) and data center (ToR and EoR) switch. This game-changing solution offers a flexible, innovative approach to meet demands in the mobile, cloud, and IoT era. The CX 8325 series is based on AOS-CX, with its microservices style modular architecture, REST APIs, Python scripting capabilities and NAE is a modern software system that automates and simplifies critical and complex network tasks, delivers enhanced fault tolerance and facilitates zero-service disruption during planned or unplanned control-plane events. CX 8325 series provides line rate 1/10/25/40GbE in a compact 1U form factor.

The CX 8325P models, deliver key solutions for providers in their 5G (Radio access network) and edge computing deployments. CX 8325H models are high-performance 1/10/25/40/100GbE half-width switches ideal for smaller, edge or colocation data centers, and wide variety of compute and storage networking use cases.

Advanced layer 2/3 feature set includes BGP, OSPF, VRF, VXLAN, EVPN, IGMP and IPv6.

- CX 8325P-32C switch supports PTP (1588v2), Class C (G.8275.1/G.8275.2), Synchronous Ethernet (SyncE, G.8262.1), Global Navigation Satellite System (GNSS) to support Telco Boundary Clock
- CX 8325H has two variations:
 - 2.16 Tbps half-width fixed switch that supports 18 ports of 1/10/25GbE and 4 ports of 40/100GbE
 - 4 Tbps half-width fixed switch that supports 16 ports of 40/100GbE

Features

Game-changing business agility

The HPE Aruba Networking CX 8325 Switch Series is a campus core and aggregation switch and data center (ToR) solution with an innovative and powerful approach to dealing with the cross-domain demands of the mobile, cloud, and IoT era.

It is fully programmable with the HPE Aruba Networking CX Switch Operating System (AOS-CX) and, it brings automation and visibility and helps troubleshoot through simple scripting.

HPE Aruba Networking CX Network Analytics Engine provides the ability to monitor and troubleshoot the network, system, application and security-related issues easily, through simple Python agents and REST APIs.

It offers high-speed fully distributed architecture with 6.4 Tbps of switching capacity. It provides robust security and QoS with advanced layer 2 and layer 3 features including support for BGP, OSPF, VRF, EVPN, VXLAN and IGMP.

The CX 8325H helps balance density, high-availability, and affordability by conserving rack space and costs when deploying server, storage and HCI solutions making it ideal for compute and storage networking use cases where lower-density networking I/O and/or limited rack space are required.

Modern software system simplifies and automates

The HPE Aruba Networking CX 8325 Switch Series is based on the new HPE Aruba Networking CX Switch Operating System (AOS-CX), a modern software system that automates and simplifies many critical and complex network tasks.

The built-in time series database enables customers and developers to develop software modules for historical troubleshooting, as well as analysis of historical trends, to predict and avoid future problems due to scale, security, and performance bottlenecks.

The HPE Aruba Networking CX Switch Operating System (AOS-CX) features are organized into CX Foundational and CX Advanced software licenses.

It includes stability, independent monitoring and restart of individual software modules, and enhanced software process serviceability functions. It also allows individual software modules to be upgraded for higher availability.

Every CX switch includes AOS-CX at no cost and with an active, perpetual set of native features that has everything needed to deploy, connect, and troubleshoot an enterprise network.

High performance and high availability

The HPE Aruba Networking CX 8325 Switch Series includes a high-speed, fully distributed architecture and provides up to 6.4 Tbps for bidirectional switching and 2000 Mpps for forwarding. All switching and routing are wire-speed to meet the demands of bandwidth-intensive applications.

The HPE Aruba Networking Virtual Switching Extension (VSX) is a high-availability technology, which has been designed from the ground up to deliver continuous availability, virtualization, and simplicity requirements. Redundant and hot-swappable power supplies and fans provide additional resiliency.

The compact 1U switch delivers line rate 1GbE, 10GbE, 25GbE, 40GbE, and 100GbE with very low latency. Optimize for your deployment with models that provide 48 ports of 1/10/25 GbE plus 8 ports of 40/100GbE or 32 ports of 40/100GbE.

The CX 8325P-32C switch delivers Advanced Layer 3 including OSPF, BGP, VXLAN and breakouts to support up to 128 ports of 10G and 25G.

The CX 8325H switch delivers high-performance, high density 1/10/25/40/100GbE connectivity half-width, in a single RU form factor. Throughput of 2.16 Tbps with 18 ports of 1/10/25GbE and 4 ports of 40/100GbE and throughput of 4 Tbps with 16 ports of 40/100GbE.

New HPE Aruba Networking data center solutions

HPE Aruba Networking offers customers highly differentiated pre-engineered IT infrastructure solutions that span a wide variety HPE Compute, HPE Storage, HPE Networking that span virtualization, vSAN™, HCI, HPC, MCS, Microsoft, SAP HANA®, VMware®, Nutanix application and IaaS service offerings.

HPE Aruba Networking CX switches, both 10/25G and 40/100G, can be deployed as part of these solutions and are often designed into these integrated solutions along with the following HPE platforms, servers and HPE GreenLake.

These ready-to-deploy, integrated IT DCN solutions simplify and speed IT service, reduce time, risk, and expertise needed to deploy complex solutions. Use the new tracking SKUs (R9FXXX) when including CX switches in HPE integrated and mixed compute, storage, networking configuration and deployments.

The CX 8325P switches provide greater flexibility to help ensure a range of deployment models by allowing 1G, 10G, 25G, 40G and 100G computing deployments, while providing greater interoperability with key HPE Telco solutions.

The CX 8325H switches enable low-latency and “lossless” network QoS and connectivity characteristics that storage requires. Ideal for software-defined storage and HCI solutions, where multiple servers share captive (SSD/flash-based) storage resources.

Technical specifications	HPE Aruba Networking CX 8325-48Y8C Power-to-Port Airflow 6 Fans 2 Power Supply Units Bundle
Product Number	R9F65A
Power consumption	Maximum: 618W depending on the model Idle: 143W depending on the model
Heat dissipation	Maximum: 2110 BTU/hr
Input voltage	100–240 VAC -36–72 VDC
Ports	(48) 25G SFP28 ports and (8) 100G QSFP28 ports
Switching capacity	CX 8325 and CX 8325P models provide 6.4 Tbps switching capacity CX 8325H models provide high-performance ASIC switching capacity of 2.16 Tbps (full-duplex) with 18 ports of 1/10/25G and 4 ports of 40/100G and ASIC switching capacity of 4 Tbps
Stacking capabilities	These switches serve the needs of the next-generation core and aggregation layer, as well as emerging data center requirements at the Top of Rack (ToR) and End of Row (EoR).
Throughput	Maximum depending on model: For CX 8325 and CX 8325P and CX 8325H-16C models: 2000 Mpps For CX 8325H-18Y4C models: 1000 Mpps
Memory and processor	For CX 8325 models: CPU: 2.2 GHz Memory: Drive and Flash 16 GB RAM, 64 GB SSD, 8 GB Flash Packet Buffer: 32 MB For CX 8325P models: CPU: 2.2 GHz Memory, Drive and Flash: 32 GB RAM, 128 GB SSD, 4 GB Flash Packet Buffer: 32 MB For CX 8325H models: CPU: AMD® x86 8-core processor Memory: 32 GB, 120 GB SSD Packet Buffer: 32 MB
Power supply	Field-replaceable, hot-swappable, and up to 2 power supplies or 2 fixed power supplies (1+1) in CX 8325H models

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Management features	Industry-standard CLI with hierarchical structure SNMP v2c and v3 sFlow (RFC 3176) Remote monitoring (RMON) Precision Time Protocol (PTP) Class C (G.8275.1 and G.8275.2) REST APIs RJ-45 serial console RJ-45 Ethernet port Micro-USB console
Operating temperature	CX 8325: 0°C to 40°C (32°F to 104°F) up to 3.0 km (10,000 ft.) CX 8325P: 0°C to 40°C (32°F to 104°F) up to 3.0 km (10,000 ft.) CX 8325H: 0°C to 45°C (32F-113F)* (F2B); 0°C to 40°C (32F-104F)* (B2F) at sea level Derate 1°C for every 1,000 ft to 10,000 ft (300 m to 3.0 km)
Weight	10.0 kg
Product dimensions	43.2 x 438.4 x 535.9 mm
Warranty	Limited lifetime warranty. See the warranty duration.

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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[PSN1014556833USEN](#), February 02, 2026.

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