Data sheet

HPE Aruba Networking CX 8325 Switch Series

HPE Aruba Networking CX 8325H 18p SFP28 25G 4p QSFP28 100G Front-to-Back 4xFan 2xPSU Switch (S4B20A)

What's new

- High-performance with 2,000 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

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 an innovative approach to dealing with network demands in the mobile, cloud, and IoT era. CX 8325 Switch 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 provides line rate 1GbE, 10GbE, 25GbE, and 40GbE in a compact 1U form factor.

remediation with HPE Aruba Networking 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.
  Advanced layer 2/3 feature set includes BGP, OSPF, VRF, VXLAN, 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:
  • 2.16Tbps half-width fixed switch that supports 18 ports of 1/10/25 and 4 ports of 40/100GbE
  • 4Tbps half-width fixed switch that supports 16 ports of 40/100 GbE

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

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 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 and VXLAN.

The CX 8325H helps balance density, high availability, and affordability by conserving rack space and costs when deploying server, storage and HCI solutions. 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 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 1 GbE, 10 GbE, 25 GbE, 40 GbE, and 100 GbE with very low latency. Optimize for your deployment with models that provide 48 ports of 1/10/25 GbE plus 8 ports of 40/100 GbE or 32 ports of 40/100 GbE.

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 1/10/25/40/100G connectivity half-width, in a single RU form factor. Throughput of 2.16 Tbps with 18 ports of 1/10/25 and 4 ports of 40/100 GbE and throughput of 4 Tbps with 16 ports of 40/100 GbE.

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 10/25 and 40/100G, can be deployed as part of these solutions and is often designed into these integrated solutions along with the following HPE platforms ProLiant DL/DX servers, SimpliVity, Synergy, Cray ClusterStor, Superdome Flex, 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 ensure a range of deployment models by allowing 1G, 10G, 25G, 40G and 100G computing deployments, while ensuring 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 8325H 18p SFP28 25G 4p QSFP28 100G Front-to-Back 4xFan 2xPSU Switch
Product Number	S4B20A
Power consumption	Max: 500 W, 1705 BTU/hr Idle: 100 W, 341 BTU/h
Input voltage	100–240 AC
External I/O ports	(18) 25G SFP28 ports and (4) 100G QSFP28 ports and (2) 10 SFP+ ports
Switch fabric speed	2.16 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	1000 Mpps, maximum
Memory and processor	CPU: AMD x86 8 Core Memory: 32 GB, 128 GB SSD Packet Buffer: 32 MB
Power supply name	Fixed
Management features	Industry-standard CLI with a hierarchical structure SNMP v2c/v3 sFlow (RFC 3176) Remote monitoring (RMON) Precision Time Protocol (PTP Class C (G.8275.1/.2)
Weight	(48) 10 kg (32) 10.87 kg
Product dimensions	(48) 4.35 x 43.84 x 53.6 cm (32) 4.395 x 44.25 x 47.3 cm
Warranty	- 5-year Warranty (purchased prior to November 1st, 2019) - Limited Lifetime (purchased after November 1st, 2019). 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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PSN1014857483WWEN, November 06, 2025.

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