HPE Aruba Networking CX 8325 Switch Series

HPE Aruba Networking CX 8325-32C 32p 100G QSFP+/QSFP28 Back-to-Front 6 Fans 2 Power Supply Bundle (JL627A)



What's new

- High-performance with 2,000 Mpps. HPE Aruba Networking designed for core/aggregation in the campus or top-of-rack (ToR) or End of Row (EoR) in the data center.
- HPE Aruba Networking CX Operating System automation and programmability using built-in REST APIs and Python scripts.
- High availability with industry-leading HPE Aruba Networking VSX redundancy, and redundant power supplies and fans.
- Compact 1U switches with 1GbE, 10GbE, 25GbE, 40GbE, and 100GbE connectivity. Advanced layer 2/3 feature set includes BGP, OSPF, VRF, VXLAN, and IPv6.

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.

The HPE CX 8325 Switch Series is based on HPE ArubaOS-CX, 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.

The key innovations in HPE ArubaOS-CX are its microservices style modular architecture, REST APIs, Python scripting capabilities and the HPE Aruba Network Analytics Engine. The HPE CX 8325 Switch Series provides line rate 1GbE, 10GbE, 25GbE, and 40GbE in a compact 1U form factor.

The HPE CX 8325P, part of the HPE Aruba Networking CX 8325 Switch

- Intelligent monitoring, visibility, and remediation with HPE Aruba Network Analytics Engine and dynamic VXLAN for deep segmentation in data center and campus networks with BGP-EVPN.
- HPE Aruba Networking CX 8325P-32C 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.

family, delivers key solutions for providers in their 5G (Radio Access Network) and edge computing deployments.

Features

Game-changing Business Agility

The HPE Aruba Networking CX 8325 Switch Series is a campus core and aggregation switch and data center top-of-rack (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 Operating System, it brings automation and visibility and helps troubleshoot through simple scripting.

HPE Aruba 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.

Modern Software System Simplifies and Automates

The HPE Aruba Networking CX 8325 Switch Series is based on the new HPE Aruba Networking CX Operating System, 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.

HPE Aruba Networking CX Operating System features are organized into HPE Aruba Networking CX Foundational and HPE Aruba Networking 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 HPE Aruba Networking CX switch includes AOS-CX at no cost and with an active, perpetual set of native features which 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 2,000 Mpps for forwarding. All switching and routing are wire-speed to meet the demands of bandwidth-intensive applications.

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

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 data center solutions help simplify and speed IT service delivery while reducing the time, risk, and expertise needed to deploy complex solutions.

Use these new tracking SKUs (R9FXXX) when HPE Aruba Networking CX switches are included in HPE integrated and mixed compute, storage, and networking configuration and deployments.

The HPE Aruba Networking CX 8325P Switches provides 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.



Technical specifications

HPE Aruba Networking CX 8325-32C 32p 100G QSFP+/QSFP28 Back-to-Front 6 Fans 2 Power Supply Bundle

Product Number	JL627A
Differentiator	32-port QSFP28 (40/100 GbE) switch with six back-to-front fans and two back-to-front power supplies.
Ports	(32) 100G QSFP28 ports
Memory and processor	CPU 2.2 GHz Memory, Drive and Flash 16 GB RAM, 64 GB SSD, 8 GB Flash Packet Buffer 32 MB
Throughput	1,905 Mpps, maximum
Routing/switching capacity	6.4 Tbps, maximum
Switch fabric speed	6.4 Tbps
Switching capacity	6.4 Tbps for switching and 2,000 Mpps for forwarding.
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)
Management features	Industry-standard CLI with hierarchical structure, SNMP v2c/v3, sFlow (RFC 3176), remote monitoring (RMON)
Power supply name	Field-replaceable, hot-swappable, and up to 2 power supplies.
Input voltage	100-240VAC
Power consumption	618W, maximum depending on model
Product dimensions	43.2 x 438.4 x 515.1 mm
Weight	9.5 kg

For additional technical information, available models and options, please reference the QuickSpecs

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: https://www.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.

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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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PSN1011181617WWEN, December, 2024.

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