

HPE Aruba Networking CX 9300 Switch Series



What's new

- The switch series provides high performance switching up to 25.6 Tbps in a 1U fixed configuration supporting 32 ports of 100/400GbE
- Dynamic VXLAN with BGP-EVPN for deep segmentation in data center and campus networks
- The CX 9300S 32p QSFP28 100G 8p QSFP-DD 400G back-to-front and front-to-back bundles along with new compatible transceivers and power supply options
- HPE Aruba Networking CX 9300 Switch Series is based on AOS-CX, a modern, database-driven operating system that automates and simplifies many critical and complex network tasks
- HPE Aruba Networking Fabric Composer greatly simplifies the automation, orchestration, and end-to-end visibility of the network fabric underlay and virtualized overlay.
- Advanced Layer 2/3 feature set includes BGP, OSPF, VRF-Lite, and IPv6

Overview

The HPE Aruba Networking CX 9300 Switch Series provides 25.6 Tbps, 1U fixed configuration that supports 32 ports of 100/400GbE. This series is designed to provide flexible, cost-effective, high-density 400GbE for servers, storage, and intra-fabric connectivity.

The HPE Aruba Networking CX 9300 Switch Series protects enterprises' investment as it transitions server farms from 10GbE and 25GbE to 100GbE/400GbE EVPN-VXLAN spine configurations, with reduced power and a smaller footprint. The CX 9300-32D switch supports large data center PODS of up to 16834 x 25GbE servers or up to 8192 x 100GbE servers when using 4 x 100G SN transceivers.

Features

High performance and scale

The HPE Aruba Networking CX 9300 Switch Series meets the modern demands of large-scale virtualized and cloud networks. Provides flexible, cost-effective, high-density 100/400GbE for servers, storage, and intra-fabric connectivity.

The HPE Aruba Networking CX 9300 Switch Series with breakout cabling scalability allows a single 200GbE split into two 100GbE links, 100GbE ports can breakout to four 25GbE ports linking one switch port and accommodating up to four adapter cards in servers or other subsystems.

The HPE Aruba Networking CX 9300 Switch Series eases transition from 10GbE and 25GbE to 100GbE/400GbE providing higher scaling with reduced power and a smaller footprint. 400 Gbps port can be configured as 4 x 100GbE, 2 x 200GbE, or 1 x 400GbE.

Ethernet storage fabric optimized

The HPE Aruba Networking CX 9300 Switch Series enables low-latency and “lossless” network quality of service (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.

Ideal solution for data center, cloud, and storage use cases that support top-of-rack server and storage connectivity and scale-out leafspine fabrics.

Intelligent analytics

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

Intelligent pre-processing of data turns raw telemetry into actionable insights.

HPE Aruba Networking Switch Multi-Edit Software support automated configuration and verification.

High performance and high availability

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

HPE Aruba Networking CX 9300 Switch Series delivers advanced Layer 2/3 feature set includes BGP, OSPF, VRF-Lite, and IPv6. The switch series supports dynamic VXLAN with BGP-EVPN for deep segmentation in data center and campus networks.

Technical specifications		HPE Aruba Networking CX 9300 Switch Series
Power consumption	600W or 615W, Idle: 210W or 221W maximum depending on the model	
Heat dissipation	4,435 BTU/hr maximum	
Input voltage	CX 9300-32D: 100-127 / 220-240 VAC 220-240 V required to support 8-32 port production configuration CX 9300S-32C8D: 100-127 VAC 50/60 Hz 12A 200-240 VAC 50/60 Hz 10A 200-240 V required to support > 5W transceiver power in any port	
Ports	CX 9300-32D: 32 ports of 100GbE, 200GbE, or 400GbE 400 Gbps ports can be configured as 4 x 100GbE, 2 x 200GbE, or 1 x 400GbE CX 9300S-32C8D: 32 ports of 10/25/100/200GbE, 8 ports of 400GbE Flexibility to support 10/25/100/200GbE on the access ports	
Switching capacity	CX 9300-32D: 25.6 Tbps CX 9300S-32C8D: 16 Tbps	
Throughput	5 Bpps	
Memory and processor	CX 9300-32D: 128 GB m.2 SSD, 4 GB mSATA, 128 MB SPI Flash, 16 GB x2 SODIMM CX 9300S-32C8D: 128 GB m.2 SSD, 16 MB SPI Flash, 32 GB x2 SODIMM	
Power supply	2 redundant power supplies, field-replaceable, hot-swappable	
Management features	CX 9300-32D: SNMP REST RJ-45 serial Micro USB console port RJ-45 OOBM Port CX 9300S-32C8D: SNMP REST RJ-45 and USB-C serial console connectors RJ-45 OOBM Port	
Operating temperature	32°F to 113°F (0°C to 45°C) maximum depending on the model	
Weight	11.85 kg	
Product dimensions (metric)	4.35 x 43.84 x 59 cm	

Warranty

Limited lifetime warranty. See the [warranty duration](#).

SKU comparison

	HPE Aruba Networking CX 9300-32D 32-port 100/200/400G QSFP-DD 2-port 10G Switch (R8Z96A)	HPE Aruba Networking CX 9300-32D 32p QSFP-DD 2p 10G SFP+ Back-to-Front 6 Fans 2 AC PSU Bundle (R9A30A)	HPE Aruba Networking CX 9300-32D 32p QSFP-DD 2p 10G SFP+ Front-to-Back 6 Fans 2 AC PSU Bundle (R9A29A)
Differentiator	CX 9300-32D 32-port switch	CX 9300-32D 32-port back-to-front bundle	CX 9300-32D 32-port front-to-back bundle
Power consumption	600W or 615W, Idle: 210W or 221W maximum depending on the model	100% Traffic Rate: 688W Idle: 221W	100% Traffic Rate: 675W Idle: 210W
Heat dissipation	4,435 BTU/hr maximum	4,435 BTU/hr maximum	4,435 BTU/hr maximum
Input voltage	100-127 / 220-240 VAC 220-240 V required to support 8-32 port production configuration	100-127 / 220-240 VAC 220-240 V required to support 8-32 port production configuration	100-127 / 220-240 VAC 220-240 V required to support 8-32 port production configuration
Ports	32 ports of 100GbE, 200GbE, or 400GbE 400 Gbps ports can be configured as 4 x 100GbE, 2 x 200GbE, or 1 x 400GbE	32 ports of 100GbE, 200GbE, or 400GbE 400 Gbps ports can be configured as 4 x 100GbE, 2 x 200GbE, or 1 x 400GbE	32 ports of 100GbE, 200GbE, or 400GbE 400 Gbps ports can be configured as 4 x 100GbE, 2 x 200GbE, or 1 x 400GbE
Switching capacity	25.6 Tbps	25.6 Tbps	25.6 Tbps
Throughput	5 Bpps	5 Bpps	5 Bpps
Memory and processor	128 GB m.2 SSD, 4 GB mSATA, 128 MB SPI Flash, 16 GB x2 SODIMM	128 GB m.2 SSD, 4 GB mSATA, 128 MB SPI Flash, 16 GB x2 SODIMM	128 GB m.2 SSD, 4 GB mSATA, 128 MB SPI Flash, 16 GB x2 SODIMM
Power supply	2 redundant power supplies, field-replaceable, hot-swappable	2 redundant power supplies, field-replaceable, hot-swappable	2 redundant power supplies, field-replaceable, hot-swappable
Management features	SNMP REST RJ-45 serial Micro USB console port RJ-45 OOBM Port	SNMP REST RJ-45 serial Micro USB console port RJ-45 OOBM Port	SNMP REST RJ-45 serial Micro USB console port RJ-45 OOBM Port
Operating temperature	32°F to 113°F (0°C to 45°C) at sea level	32°F to 113°F (0°C to 45°C) maximum depending on the model	32°F to 113°F (0°C to 45°C) maximum depending on the model
Warranty	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.

	HPE Aruba Networking CX 9300-32D 32xQSFP-DD 400G 2xSFP+10G Prt2Pwr Airflow 6Fs 2AC PSU Switch Bdl (S1D07A)	HPE Aruba Networking CX 9300-32D 32xQSFP-DD 400G 2xSFP+10G Pwr2Prt Airflow 6Fs 2AC PSU Switch Bdl (S1D08A)	HPE Aruba Networking CX 9300S 32p QSFP28 100G 8p QSFP-DD 400G Back-to-Front 6xFan 2xAC Bundle (SOF84A)
Differentiator			CX 9300S 32-port back-to-front AC bundle
Power consumption	600W or 615W, Idle: 210W or 221W maximum depending on the model	600W or 615W, Idle: 210W or 221W maximum depending on the model	Idle: 185W Maximum: 920W Typical: 395W
Heat dissipation	4,435 BTU/hr maximum	4,435 BTU/hr maximum	4,435 BTU/hr maximum
Input voltage	CX 9300-32D: 100-127 / 220-240 VAC 220-240 V required to support 8-32 port production configuration CX 9300S-32C8D: 100-127 VAC 50/60 Hz 12A 200-240 VAC 50/60 Hz 10A 200-240 V required to support > 5W transceiver power in any port	CX 9300-32D: 100-127 / 220-240 VAC 220-240 V required to support 8-32 port production configuration CX 9300S-32C8D: 100-127 VAC 50/60 Hz 12A 200-240 VAC 50/60 Hz 10A 200-240 V required to support > 5W transceiver power in any port	100-127 VAC 50/60 Hz 12A 200-240 VAC 50/60 Hz 10A 200-240 V required to support > 5 W transceiver power in any port
Ports	CX 9300-32D: 32 ports of 100GbE, 200GbE, or 400GbE 400 Gbps ports can be configured as 4 x 100GbE, 2 x 200GbE, or 1 x 400GbE CX 9300S-32C8D: 32 ports of 10/25/100/200GbE, 8 ports of 400GbE Flexibility to support 10/25/100/200GbE on the access ports	CX 9300-32D: 32 ports of 100GbE, 200GbE, or 400GbE 400 Gbps ports can be configured as 4 x 100GbE, 2 x 200GbE, or 1 x 400GbE CX 9300S-32C8D: 32 ports of 10/25/100/200GbE, 8 ports of 400GbE Flexibility to support 10/25/100/200GbE on the access ports	32 ports of 10/25/100/200GbE, 8 ports of 400GbE Flexibility to support 10/25/100/200GbE on the access ports
Switching capacity	CX 9300-32D: 25.6 Tbps CX 9300S-32C8D: 16 Tbps	CX 9300-32D: 25.6 Tbps CX 9300S-32C8D: 16 Tbps	16 Tbps
Throughput	5 Bpps	5 Bpps	5 Bpps
Memory and processor	CX 9300-32D: 128 GB m.2 SSD, 4 GB mSATA, 128 MB SPI Flash, 16 GB x2 SODIMM CX 9300S-32C8D: 128 GB m.2 SSD, 16 MB SPI Flash, 32 GB x2 SODIMM	CX 9300-32D: 128 GB m.2 SSD, 4 GB mSATA, 128 MB SPI Flash, 16 GB x2 SODIMM CX 9300S-32C8D: 128 GB m.2 SSD, 16 MB SPI Flash, 32 GB x2 SODIMM	128 GB m.2 SSD, 16 MB SPI Flash, 32 GB x2 SODIMM
Power supply	2 redundant power supplies, field-replaceable, hot-swappable	2 redundant power supplies, field-replaceable, hot-swappable	2 redundant power supplies, field-replaceable, hot-swappable

	HPE Aruba Networking CX 9300-32D 32xQSFP-DD 400G 2xSFP+10G Prt2Pwr Airflow 6Fs 2AC PSU Switch Bdl (S1D07A)	HPE Aruba Networking CX 9300-32D 32xQSFP-DD 400G 2xSFP+10G Pwr2Prt Airflow 6Fs 2AC PSU Switch Bdl (S1D08A)	HPE Aruba Networking CX 9300S 32p QSFP28 100G 8p QSFP-DD 400G Back-to-Front 6xFan 2xAC Bundle (SOF84A)
Management features	<p>CX 9300-32D: SNMP REST RJ-45 serial Micro USB console port RJ-45 OOBM Port</p> <p>CX 9300S-32C8D: SNMP REST RJ-45 and USB-C serial console connectors RJ-45 OOBM Port</p>	<p>CX 9300-32D: SNMP REST RJ-45 serial Micro USB console port RJ-45 OOBM Port</p> <p>CX 9300S-32C8D: SNMP REST RJ-45 and USB-C serial console connectors RJ-45 OOBM Port</p>	<p>SNMP REST RJ-45 and USB-C serial console connectors RJ-45 OOBM Port</p>
Operating temperature	32°F to 113°F (0°C to 45°C) maximum depending on the model	32°F to 113°F (0°C to 45°C) maximum depending on the model	32°F to 104°F (0°C to 40°C) at sea level
Warranty	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.

	HPE Aruba Networking CX 9300S 32p QSFP28 100G 8p QSFP-DD 400G Back-to-Front 6xFan 2xAC TAA Bundle (SOF83A)	HPE Aruba Networking CX 9300S 32p QSFP28 100G 8p QSFP-DD 400G Back-to-Front 6xFan 2xDC Bundle (SOF88A)	HPE Aruba Networking CX 9300S 32p QSFP28 100G 8p QSFP-DD 400G Back-to-Front 6xFan 2xDC TAA Bundle (SOF87A)
Differentiator	CX 9300S 32-port back-to-front AC bundle TAA certified	CX 9300S 32-port back-to-front DC bundle	CX 9300S 32-port back-to-front DC bundle TAA certified
Power consumption	Idle: 185W Maximum: 920W Typical: 395W	Idle: 210W Maximum: 950W Typical: 420W	Idle: 210W Maximum: 950W Typical: 420W
Heat dissipation	4,435 BTU/hr maximum	4,435 BTU/hr maximum	4,435 BTU/hr maximum
Input voltage	100–127 VAC 50/60 Hz 12A 200–240 VAC 50/60 Hz 10A 200–240 V required to support > 5 W transceiver power in any port	100–127 VAC 50/60 Hz 12A 200–240 VAC 50/60 Hz 10A 200–240 V required to support > 5 W transceiver power in any port	100–127 VAC 50/60 Hz 12A 200–240 VAC 50/60 Hz 10A 200–240 V required to support > 5 W transceiver power in any port
Ports	32 ports of 10/25/100/200GbE, 8 ports of 400GbE Flexibility to support 10/25/100/200GbE on the access ports	32 ports of 10/25/100/200GbE, 8 ports of 400GbE Flexibility to support 10/25/100/200GbE on the access ports	32 ports of 10/25/100/200GbE, 8 ports of 400GbE Flexibility to support 10/25/100/200GbE on the access ports
Switching capacity	16 Tbps	16 Tbps	16 Tbps
Throughput	5 Bpps	5 Bpps	5 Bpps
Memory and processor	128 GB m.2 SSD, 16 MB SPI Flash, 32 GB x2 SODIMM	128 GB m.2 SSD, 16 MB SPI Flash, 32 GB x2 SODIMM	128 GB m.2 SSD, 16 MB SPI Flash, 32 GB x2 SODIMM
Power supply	2 redundant power supplies, field-replaceable, hot-swappable	2 redundant power supplies, field-replaceable, hot-swappable	2 redundant power supplies, field-replaceable, hot-swappable
Management features	SNMP REST RJ-45 and USB-C serial console connectors RJ-45 OOBM Port	SNMP REST RJ-45 and USB-C serial console connectors RJ-45 OOBM Port	SNMP REST RJ-45 and USB-C serial console connectors RJ-45 OOBM Port
Operating temperature	32°F to 104°F (0°C to 40°C) at sea level	32°F to 104°F (0°C to 40°C) at sea level	32°F to 104°F (0°C to 40°C) at sea level
Warranty	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.

	HPE Aruba Networking CX 9300S 32p QSFP28 100G 8p QSFP-DD 400G Front-to-Back 6xFan 2xAC Bundle (SOF82A)	HPE Aruba Networking CX 9300S 32p QSFP28 100G 8p QSFP-DD 400G Front-to-Back 6xFan 2xAC TAA Bundle (SOF81A)	HPE Aruba Networking CX 9300S 32p QSFP28 100G 8p QSFP-DD 400G Switch (SOF96A)
Differentiator	CX 9300S 32-port front-to-back AC bundle	CX 9300S 32-port front-to-back bundle TAA certified	CX 9300S 32-port switch
Power consumption	Idle: 185W Maximum: 920W Typical: 395W	Idle: 185W Maximum: 920W Typical: 395W	600W or 615W, Idle: 210W or 221W maximum depending on the model
Heat dissipation	4,435 BTU/hr maximum	4,435 BTU/hr maximum	4,435 BTU/hr maximum
Input voltage	100–127 VAC 50/60 Hz 12A 200–240 VAC 50/60 Hz 10A 200–240 V required to support > 5 W transceiver power in any port	100–127 VAC 50/60 Hz 12A 200–240 VAC 50/60 Hz 10A 200–240 V required to support > 5W transceiver power in any port	100–127 VAC 50/60 Hz 12A 200–240 VAC 50/60 Hz 10A 200–240 V required to support > 5 W transceiver power in any port
Ports	32 ports of 10/25/100/200GbE, 8 ports of 400GbE Flexibility to support 10/25/100/200GbE on the access ports	32 ports of 10/25/100/200GbE, 8 ports of 400GbE Flexibility to support 10/25/100/200GbE on the access ports	32 ports of 10/25/100/200GbE, 8 ports of 400GbE Flexibility to support 10/25/100/200GbE on the access ports
Routing/switching capacity	8.0 Tbps		
Switch fabric speed	8.0 Tbps		
Switching capacity	16 Tbps	16 Tbps	16 Tbps
Throughput		5 Bpps	5 Bpps
Memory and processor	128 GB m.2 SSD, 16 MB SPI Flash, 32 GB x2 SODIMM	128 GB m.2 SSD, 16 MB SPI Flash, 32 GB x2 SODIMM	128 GB m.2 SSD, 16 MB SPI Flash, 32 GB x2 SODIMM
Power supply		2 redundant power supplies, field-replaceable, hot-swappable	2 redundant power supplies, field-replaceable, hot-swappable
Management features	SNMP, RJ-45 console port, Micro USB console port	SNMP REST RJ-45 and USB-C serial console connectors RJ-45 OOBM Port	SNMP REST RJ-45 and USB-C serial console connectors RJ-45 OOBM Port
Operating temperature	32°F to 113°F (0°C to 45°C) at sea level	32°F to 113°F (0°C to 45°C) at sea level	32°F to 113°F (0°C to 45°C) maximum depending on the model
Warranty	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.

HPE Aruba Networking CX 9300S 32p QSFP28 100G 8p QSFP-DD 400G TAA Switch (SOF95A)

Differentiator	CX 9300S 32-port switch TAA certified
Power consumption	600W or 615W, Idle: 210W or 221W maximum depending on the model
Heat dissipation	4,435 BTU/hr maximum
Input voltage	100–127 VAC 50/60 Hz 12A 200–240 VAC 50/60 Hz 10A 200–240 V required to support > 5 W transceiver power in any port
Ports	32 ports of 10/25/100/200GbE, 8 ports of 400GbE Flexibility to support 10/25/100/200GbE on the access ports
Switching capacity	16 Tbps
Throughput	5 Bpps
Memory and processor	128 GB m.2 SSD, 16 MB SPI Flash, 32 GB x2 SODIMM
Power supply	2 redundant power supplies, field-replaceable, hot-swappable
Management features	SNMP REST RJ-45 and USB-C serial console connectors RJ-45 OOBM Port
Operating temperature	32°F to 113°F (0°C to 45°C) maximum depending on the model
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.

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 Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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.

Image may differ from the actual product.

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