

HPE Aruba Networking CX 8100 40x10G Base-T 8x10G SFP+ 4x40/100G QSFP28 FB 3Fan 2AC PSU Switch Bundle (R9W92A)

What's new

- High-performance 1.76Tbps of bi-directional switching and 1,309 Mpps of forwarding designed for aggregation in the campus or top-of-rack in data center environments.
- Four different base models, each sold in bundles that support two airflow modes (Front to Back, and Back to Front) with Advanced Layer 2/3 feature set that includes BGP, OSPF, VRF, and IPv6.
- High availability with industry-leading VSX redundancy and redundant power supplies and fans.
- Aruba AOS-CX automation and programmability using built-in REST APIs and Python scripts with intelligent monitoring and visibility delivered by the Aruba Network Analytics Engine.

Overview

The HPE Aruba Networking CX 8100 Switch Series serves the needs of modern campus core and aggregation as well as dynamic top-of-rack (ToR) data center environments, offering a flexible and innovative approach to addressing the application, security, and scalability demands of the mobile, cloud, and IoT.

The HPE CX 8100 Switches are based on AOS-CX, a modern software system that automates and simplifies critical network tasks, offers programmability with REST APIs and Python scripts, and delivers enhanced fault tolerance and zero-service disruption during planned or unplanned control-plane events. Real-time, network-wide visibility and analytics are also available in every switch.

The series includes industry-leading line rate ports with 1/10GbE (SFP/SFP+) and 40/100GbE (QSFP+/QSFP28) connectivity in a compact 1U form factor. 4x10Gbps and 4x25Gbps break out from 40/100G. These switches are great for customers needing 1GbE/10GbE with a mix of fiber and copper ports.

Features

Modular Cloud-Native Architecture

HPE Aruba Networking CX 8100 Switch Series features AOS-CX which simplify the complexities of managing data center networks with automation options to match your IT organization's operating model.

Proactively detect issues and speed troubleshooting with actionable insights provided by an analytics engine embedded in every switch. Always-on infrastructure designed for resiliency and upgrades with zero downtime.

REST APIs and Python scripting provide fine-grained microservices architecture enabling full integration with other workflow systems and services.

Continual state synchronization provides superior fault tolerance and high availability. Always-on infrastructure designed for resiliency and upgrades with zero downtime.

Aruba Network Analytics Engine

HPE Aruba Networking CX 8100 Switch Series utilizes the Aruba Network Analytics Engine (NAE) for advanced telemetry and automation to provide industry-first monitoring and troubleshooting systems that greatly improving network operations.

Customers can use data from the Time Series Database (TSDB) to store configuration and operational state to write software modules to troubleshoot problems. This data may also be used to analyze trends, identify anomalies, and predict future capacity requirements.

High Availability and Resiliency

All software processes in the HPE Aruba Networking CX 8100 Switch Series run as microservices that communicate via the state database of the switch; there is no direct communication between microservices. Should a software process crash, the impact of that failure will be limited.

The ability of AOS-CX to maintain synchronous state across dual control planes allows a unique high availability solution called Aruba Virtual Switching Extension (VSX).

Aruba VSX provides a robust, yet simple solution for high availability with a unique design for control plane synchronization and an architecture that is redundant in both hardware and software by deploying two chassis with an inter-switch link, maintaining its independent control.

Software-Defined Automation

The HPE Aruba Networking CX 8100 Switch Series is supported by Aruba Fabric Composer, a software-defined orchestration solution that simplifies and accelerates leaf-spine network provisioning and day-to-day operations across rack-scale compute and storage infrastructure.

Orchestrate a discrete set of switches as a single networking fabric to simplify operations and troubleshooting. This infrastructure and application-aware solution also automates various configuration and lifecycle events.

Technical specifications

HPE Aruba Networking CX 8100 40x10G Base- T 8x10G SFP+ 4x40/100G QSFP28 FB 3Fan 2AC PSU Switch Bundle

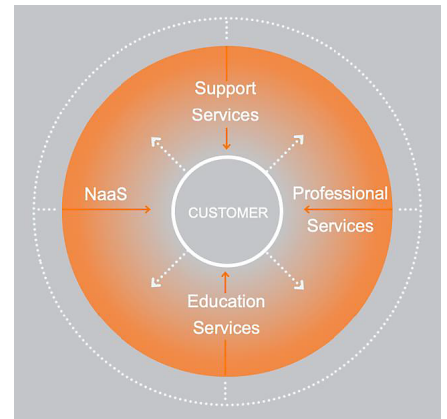
Product Number	R9W92A
Differentiator	<p>The HPE Aruba Networking CX 8100 Switch series is based on ArubaOS-CX, a modern, database-driven operating system that automates and simplifies many critical and complex tasks. The enhanced capabilities of ArubaOS-CX provide a unique set of differentiators for campus and data center switching.</p> <p>40 ports of 100M/1/2.5/5/10 GbE 8 ports of 1/GbE/10GbE (SFP/SFP+) 4 ports of 40GbE/100GbE (QSFP+/QSFP28)</p>
Ports	<p>40 ports of 100M/1/2.5/5/10 GbE 8 ports of 1/GbE/10GbE (SFP/SFP+) 4 ports of 40GbE/100GbE (QSFP+/QSFP28)</p>
Memory and processor	Quad Core ARM Cortex™ A72 @ 1.8 GHz
Switching capacity	1.76 Tbps
Management features	<p>RJ-45 serial and USB-C console RJ-45 Ethernet port USB-Type A</p>
Power supply name	Bundles include the 2 power supplies (2xJL600A in R9W86A, R9W88A, R9W90A & R9W92A)
Input voltage	<p>100-127V 7.1A for 100-127VAC 200-240V 3.4A for 200-240VAC</p>
Operating temperature	Up to 32°F to 113°F (0°C to 45°C) up to 5000 ft depending on the model
Power consumption	120 W Idle Power / 500W Max Power
Heat dissipation	1705 BTU/hr

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

Aruba Global Services

Aruba Global Services simplifies and accelerates 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 Aruba Global Services has to offer at: arubanetworks.com/services/



Support Services from Aruba

Support services reduce complexity and increase your team's productivity, ensuring you keep pace with technology advances and software releases, and obtain break-fix support required to keep your network running. Access to premium services means you have the right help at the right time.

Professional Services from Aruba

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 Aruba technology.

QuickStart Services include:

- Planning, audit and assessment
- Intelligent Operations
- Architecture review and design

Proactive Engineering Services include:

- Customer Experience Management
- Deployment, migration, and knowledge transfer
- Network optimization

Our [Education Services](#) allow your team to come up to speed quickly.

Aruba Network as-a-Service (NaaS)

Our NaaS solution, Aruba Managed Connectivity Services, part of the HPE GreenLake services family, simplifies network operations, accelerates equipment handling, and increases the value of your Aruba network. If you need expert guidance and automation-based operations for your team, please explore the NaaS approach from Aruba [here](#).

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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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