

HPE Aruba Networking CX 10000 Switch Series

HPE Aruba Networking CX 10000 48p SFP28 10G/25G 6p QSFP28 100G Back-to-Front 6xFan 2xPSU TAA Bundle (S0F98A)



What's new

- A category of distributed services switch.
- HPE Aruba Networking CX with embedded programmable DPU (Pensando Elba [1]).
- Unified network and security policy through HPE Aruba Networking Fabric Composer.
- Security ecosystem integration with thirdparty vendors.
- Leverages existing AOS-CX Cloud Native

Overview

HPE Aruba Networking CX 10000 Switch Series delivers a flexible and innovative approach to address the security performance, agility, and scalability demands of both traditional enterprise data centers and emerging distributed, edge and co-located centers of data.

The CX 10000 series is a category of switches that combines the best-of-breed network operating system, HPE Aruba Networking CX Switch Operating System (AOS-CX), for data center, campus, and edge in addition to the fully programmable AMD Pensando DPU. This allows the CX 10000 switches to deliver software-defined services inline, at scale, with wire-rate performance and orders of magnitude scale and performance



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Switching.

improvements over traditional L2/L3 switches at a fraction of their TCO.

This allows the flexibility to enable service delivery, when deployed as access, leaf top of rack (ToR), or end of row (EoR) in a data center, and potentially in the aggregation layer in campus or edge data center designs.

Features

Improves Network Bandwidth and Performance

The HPE Aruba Networking CX 10000 Switch Series offers a unique blend of performance and scale for distributing advanced networking and security services where it is impractical and costly to force traffic back and forth across the network to a centralized policy enforcement point.

Simplify application of services at the services network access layer edge.

All switching and routing are wire-speed to meet the demands of bandwidth-intensive applications today and in the future, the CX 10000 switches provides 3.6 Tbps for bidirectional switching and 2000 Mpps for forwarding.

Limit Security Appliance Sprawl and Cost

The CX 10000 switches improve network bandwidth and performance by not having to trombone local traffic to a centralized chokepoint, helping to improve security posture while limiting appliance sprawl complexity and cost.

The CX 10000 switches provide a compelling architectural alternative that distributes these advanced services to the data center edge, with unified network and security automation and policy management.

Extend Zero Trust and Micro Segmentation

The HPE Aruba Networking CX 10000 Switch Series allows operators to extend industry-standard leaf-spine networking with 800G of distributed microsegmentation, east-west firewalling, NAT, encryption and telemetry services delivered inline across every port closer to critical enterprise applications.

Organizations with dedicated SecOps teams can leverage AMD Pensando policy and services manager (PSM) based on specific security roles and responsibilities for increased scalability and fault tolerance.

Extends Zero Trust segmentation deeper into the data center for any type of host.

Optimizes network traffic flows, bandwidth, and performance, which reduces operational complexity associated with service stitching.

Simplify Operations

The CX 10000 switches are integrated with Fabric Composer which provides unified network and security management, automated switch and network configurations, and unified security policy and distributed firewalls across the entire switching fabric.

The CX 10000 switches integrate through Rest API, provides flow data to security and network performance tools including Advanced Security ML (XDR), Application Dependency Mapping (ADM), Network Performance Management (NPM), SIEM/SOAR, firewall compliance rules, and identity group mapping tools.

The switch is based on the CX Operating System, a modern, database-driven operating system that automates and simplifies many critical and complex network tasks.

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Technical specifications

HPE Aruba Networking CX 10000 48p SFP28 10G/25G 6p QSFP28 100G Back-to-Front 6xFan 2xPSU TAA Bundle

Product Number	SOF98A
Differentiates	
Differentiator	Back-to-Front 6xFan TAA Certified
Ports	48 SFP28 6 QSFP28
	0 Q3FF20
Memory and processor	CPU: 2.9 GHz, 32 GB 92x16 GB) SODIMM, 64 GB SSD, 32 MB SPI Flash (BIOS), 64
	MB SPI Flash (SVOS) Packet Buffer: 32 MB
	DPU: 2 x Pensando Elba 3 GHz
Latency	<1 µs (without redirect)
	<5 μs (with redirect)
Throughput	Provides 3.6 Tbps for bidirectional switching and 2000 Mpps for forwarding
Switching capacity	1.8 Tbps (3.6 Tbps full-duplex)
Routing capabilities	Static (IPv4/IPv6): RIPv2
	RIPng
	OSPF
	OSPFv3 BGP-4
	MP-BGP with IPv6
	PBR
	ECMP
	GRE
Stacking capabilities	Yes
Management features	CLI
	REST API
	SNMP
	Fabric Composer Multi-Edit
	RJ-45 console Port
	USB micro console port
	RJ-45 out-of-band management port
Power supply name	2x R8R51A (Front-to-Back) or 2x R8R52A (Back-to-Front)
Input voltage	100-240 VAC
Operating temperature	0°C to 40°C (32°F to 104°F)
Power consumption	753W (maximum), 550W (typical), 400W (idle)
	Notes:
	Maximum measurement is collected under 100% line rate network traffic running,
	with all ports populated with SFP and QSFP modules.
	Typical measurement is collected under 50% line rate network traffic running, with
	all ports populated with SFP and QSFP modules. Idle measurement is collected with no network traffic or modules.
Harris Production	
Heat dissipation	1,876 BTU/hr

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Product dimensions	4.44 x 43.82 x 51.1 cm
Weight	9.75 kg

HPE Aruba Networking Services

HPE Aruba Networking services simplify

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 -

and accelerate the network technology

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

Aruba Networking has to offer at: arubanetworks.com/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: Annual subscription services include:

- Planning, audit, and assessment
 Ne
 - Network optimization
- Architecture review and design
- Intelligent Operations
- Deployment, migration, and knowledge transfer
- Customer Experience Management

Our Education Services allow your team to come up to speed quickly.



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

Make the right purchase decision. Contact our presales specialists.



Contact us



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.

[1] Pensando® is a registered trademark of Pensando Systems Inc. in the U.S. and other countries. AMD is a trademark of Advanced Micro Devices, Inc. All third-party marks are property of their respective owners.

Hewlett Packard Enterprise

Image may differ from the actual product PSN1014746676WWEN, November, 2024.