

# HPE Aruba Networking CX 10000 Switch Series



## What's new

- A category of distributed services switch with embedded programmable DPUs overcoming legacy network and security design limitations
- CX 10000 offer 3.2 Tbps of switching capacity supporting 1/10/25GbE  
CX 10040 offer 8 Tbps of switching capacity supporting 32 x 100G, 6 x 400G connectivity
- Unified network and security policy through HPE Aruba Networking Fabric Composer
- Security ecosystem integration with third-party vendors
- Leverage existing AOS-CX cloud-native switching

## Overview

HPE Aruba Networking CX 10000 Switch Series, industry's first DPU-enabled switches, 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 switch 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 DPUs. This allows the switches to deliver software-defined services inline, at scale, with wire-rate performance and orders of magnitude scale and performance 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.

- Distributed stateful segmentation, east-west firewalling, NAT, encryption, and telemetry services — all delivered inline

## 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. CX 10000 models provide 3.2 Tbps for bidirectional switching and 2000 Mpps for forwarding. CX 10040 models offer 8 Tbps of switching capacity, 1.6 Tbps of L4 stateful inspection.

### Limit security appliance sprawl and cost

The CX 10000 series improves 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 series provides 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 microsegmentation

The HPE Aruba Networking CX 10000 Switch Series allows operators to extend industry-standard leaf-spine networking with 1.6T of distributed micro-segmentation, 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 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 switching.

The switch series allow operators to extend industry-standard leaf-spine networking with distributed stateful segmentation, east-west firewalling, NAT, encryption, and telemetry services — all delivered inline, all the time, on every access port, closer to where critical enterprise applications run.

### Simplify operations

The CX 10000 series is integrated with HPE Aruba Networking 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 series integrates 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 series is based on the HPE Aruba Networking CX Operating System(AOS-CX), a modern, database-driven operating system that automates and simplifies many critical and complex network tasks.

Technical specifications	HPE Aruba Networking CX 10000 Switch Series
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<b>Power consumption</b>	CX 10000 Maximum: 753W Idle: 400W  CX 10040 Maximum: 1580W Idle: 650W
<b>Input voltage</b>	100–240 VAC
<b>Ports</b>	CX 10000: 48 x 25GbE SFP+, 6 x 100Gb QSFP CX 10040: 32 x 100GbE QSFP, 6 x 400GbE QSFP-DD, 2 x 10GbE SFP+
<b>Latency</b>	<1 μs (without redirect) <5 μs (with redirect)
<b>Switching capacity</b>	CX 10000: 3.2 Tbps (6.4Tbps full-duplex) CX 10040: 1.8 Tbps (3.6 Tbps full-duplex)
<b>Stacking capabilities</b>	Yes
<b>Memory and processor</b>	CX 10000 CPU: Intel® Xeon® D-1637 6-core processor at 2.90 GHz Switch memory, drive and flash: 32 GB RAM, 64 GB SSD  CX 10040 CPU: AMD® V3C48 processor Switch memory, drive and flash: 120 GB M.2 SSD, 64 MB SPI Flash, 2 x 32 GB DDR5 SODIMM
<b>Power supply</b>	Field-replaceable, hot-swappable, and up to two power supplies
<b>Management features</b>	CLI REST API SNMP HPE Aruba Networking Fabric Composer HPE Aruba Networking Switch Multi-Edit Software HPE Aruba Networking Central RJ-45 serial port AMD® Pensando® PSM Micro USB console (CX 10000) USB-C console (CX 10040)
<b>Operating temperature</b>	0°C to 40°C (32°F to 104°F) up to 3.0 km (10,000 ft) or 0°C to 45°C (32°F to 113°F) at sea level in S4R54A
<b>Warranty</b>	Limited lifetime warranty. See the <a href="#">warranty duration</a> .

## SKU comparison

	HPE Aruba Networking CX 10000 48p SFP28 10G/25G 6p QSFP28 100G Back-to-Front 6xFan 2xPSU TAA Bundle (SOF98A)	HPE Aruba Networking CX 10000 48p SFP28 10G/25G 6p QSFP28 100G Front-to-Back 6xFan 2xPSU TAA Bundle (SOF97A)	HPE Aruba Networking CX 10000-48Y6C Dist Services 48p 25G SFP/SFP+/SFP28 6p 100G QSFP+/QSFP28 Switch (R8S96A)
<b>Differentiator</b>	CX 10000-48Y6C back-to-front bundle TAA certified	CX 10000-48Y6C front-to-back bundle TAA certified	CX 10000-48Y6C switch. Empty chassis without PSU or fan for use in select HPE Aruba Networking products.
<b>Power consumption</b>	Maximum: 753W Idle: 400W	Maximum: 753W Idle: 400W	Maximum: 753W Idle: 400W
<b>Input voltage</b>	100–240 VAC	100–240 VAC	100–240 VAC
<b>Ports</b>	48 x 25GbE SFP+, 6 x 100Gb QSFP	48 x 25GbE SFP+, 6 x 100Gb QSFP	48 x 25GbE SFP+, 6 x 100Gb QSFP
<b>Latency</b>	<1 µs (without redirect) <5 µs (with redirect)	<1 µs (without redirect) <5 µs (with redirect)	<1 µs (without redirect) <5 µs (with redirect)
<b>Switching capacity</b>	3.2 Tbps (6.4Tbps full-duplex)	3.2 Tbps (6.4Tbps full-duplex)	3.2 Tbps (6.4Tbps full-duplex)
<b>Stacking capabilities</b>	Yes	Yes	Yes
<b>Throughput</b>	2000 Mpps	2000 Mpps	2000 Mpps
<b>Memory and processor</b>	CPU: Intel® Xeon® D-1637 6-core processor at 2.90 GHz Switch memory, drive and flash: 32 GB RAM, 64 GB SSD	CPU: Intel® Xeon® D-1637 6-core processor at 2.90 GHz Switch memory, drive and flash: 32 GB RAM, 64 GB SSD	CPU: Intel® Xeon® D-1637 6-core processor at 2.90 GHz Switch memory, drive and flash: 32 GB RAM, 64 GB SSD
<b>Power supply</b>	Field-replaceable, hot-swappable, and up to two power supplies	Field-replaceable, hot-swappable, and up to two power supplies	Field-replaceable, hot-swappable, and up to two power supplies
<b>Management features</b>	CLI REST API SNMP HPE Aruba Networking Fabric Composer HPE Aruba Networking Switch Multi-Edit Software HPE Aruba Networking Central RJ-45 serial port AMD® Pensando® PSM Micro USB console	CLI REST API SNMP HPE Aruba Networking Fabric Composer HPE Aruba Networking Switch Multi-Edit Software HPE Aruba Networking Central RJ-45 serial port AMD® Pensando® PSM Micro USB console	CLI REST API SNMP HPE Aruba Networking Fabric Composer HPE Aruba Networking Switch Multi-Edit Software HPE Aruba Networking Central RJ-45 serial port AMD® Pensando® PSM Micro USB console
<b>Operating temperature</b>	0°C to 40°C (32°F to 104°F) up to 3.0 km (10,000 ft)	0°C to 40°C (32°F to 104°F) up to 3.0 km (10,000 ft)	0°C to 40°C (32°F to 104°F) up to 3.0 km (10,000 ft)
<b>Warranty</b>	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 10000-48Y6C Distributed Services Back-to-Front 6 Fans 2 PSU Switch Bdl (R8P14A)	HPE Aruba Networking CX 10000-48Y6C Distributed Services Front-to-Back 6 Fans 2 PSU Switch Bdl (R8P13A)	HPE Aruba Networking CX 10040 32p QSFP28 100G 6p QSFP-DD 400G Back-to-Front 4xFan 2xPSU AC Bdl (S4R55A)
<b>Differentiator</b>	CX 10000-48Y6C back-to-front bundle	CX 10000-48Y6C front-to-back bundle	CX 10040 32p back-to-front bundle
<b>Power consumption</b>	Maximum: 753W Idle: 400W	Maximum: 753W Idle: 400W	Maximum: 1580W Idle: 650W
<b>Input voltage</b>	100–240 VAC	100–240 VAC	100–127 VAC / 200–240 VAC
<b>Ports</b>	48 x 25GbE SFP+, 6 x 100Gb QSFP	48 x 25GbE SFP+, 6 x 100Gb QSFP	32 x 100GbE QSFP, 6 x 400GbE QSFP-DD, 2 x 10GbE SFP+
<b>Latency</b>	<1 μs (without redirect) <5 μs (with redirect)	<1 μs (without redirect) <5 μs (with redirect)	<1 μs (without redirect) <5 μs (with redirect)
<b>Switching capacity</b>	3.2 Tbps (6.4Tbps full-duplex)	3.2 Tbps (6.4Tbps full-duplex)	1.8 Tbps (3.6 Tbps full-duplex)
<b>Stacking capabilities</b>	Yes	Yes	Yes
<b>Throughput</b>	2000 Mpps	2000 Mpps	CX 10040 provides 8 Tbps for bidirectional switching
<b>Memory and processor</b>	CPU: Intel® Xeon® D-1637 6-core processor at 2.90 GHz Switch memory, drive and flash: 32 GB RAM, 64 GB SSD	CPU: Intel® Xeon® D-1637 6-core processor at 2.90 GHz Switch memory, drive and flash: 32 GB RAM, 64 GB SSD	CPU: AMD® V3C48 processor Switch memory, drive and flash: 120 GB M.2 SSD, 64 MB SPI Flash, 2 x 32 GB DDR5 SODIMM Series Comment:
<b>Power supply</b>	Field-replaceable, hot-swappable, and up to two power supplies	Field-replaceable, hot-swappable, and up to two power supplies	2xS4R52A (Front-to-Back) or 2xS4R53A (Back-to-Front)
<b>Management features</b>	CLI REST API SNMP HPE Aruba Networking Fabric Composer HPE Aruba Networking Switch Multi-Edit Software HPE Aruba Networking Central RJ-45 serial port AMD® Pensando® PSM Micro USB console	CLI REST API SNMP HPE Aruba Networking Fabric Composer HPE Aruba Networking Switch Multi-Edit Software HPE Aruba Networking Central RJ-45 serial port AMD® Pensando® PSM Micro USB console	CLI REST API SNMP HPE Aruba Networking Fabric Composer HPE Aruba Networking Switch Multi-Edit Software HPE Aruba Networking Central RJ-45 serial port AMD® Pensando® PSM USB-C console
<b>Operating temperature</b>	0°C to 40°C (32°F to 104°F) up to 3.0 km (10,000 ft)	0°C to 40°C (32°F to 104°F) up to 3.0 km (10,000 ft)	0°C to 40°C (32°F to 104°F) up to 3.0 km (10,000 ft)
<b>Warranty</b>	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 10040 32p QSFP28 100G 6p QSFP-DD 400G Back-to-Front 4xFan 2xPSU AC TAA Bdl (S4R57A)	HPE Aruba Networking CX 10040 32p QSFP28 100G 6p QSFP-DD 400G Front-to-Back 4xFan 2xPSU AC Bundle (S4R54A)	HPE Aruba Networking CX 10040 32p QSFP28 100G 6p QSFP-DD 400G Front-to-Back 4xFan 2xPSU AC TAA Bdl (S4R56A)
<b>Differentiator</b>	CX 10040 32p back-to-front bundle TAA certified	CX 10040 32p front-to-back bundle	CX 10040 32p front-to-back bundle TAA certified
<b>Power consumption</b>	Maximum: 1580W Idle: 650W	Maximum: 1580W Idle: 650W	Maximum: 1580W Idle: 650W
<b>Input voltage</b>	100–127 VAC / 200–240 VAC	100–127 VAC / 200–240 VAC	100–127 VAC / 200–240 VAC
<b>Ports</b>	32 x 100GbE QSFP, 6 x 400GbE QSFP-DD, 2 x 10GbE SFP+	32 x 100GbE QSFP, 6 x 400GbE QSFP-DD, 2 x 10GbE SFP+	32 x 100GbE QSFP, 6 x 400GbE QSFP-DD, 2 x 10GbE SFP+
<b>Latency</b>	<1 µs (without redirect) <5 µs (with redirect)	<1 µs (without redirect) <5 µs (with redirect)	<1 µs (without redirect) <5 µs (with redirect)
<b>Switching capacity</b>	1.8 Tbps (3.6 Tbps full-duplex)	1.8 Tbps (3.6 Tbps full-duplex)	1.8 Tbps (3.6 Tbps full-duplex)
<b>Stacking capabilities</b>	Yes	Yes	Yes
<b>Throughput</b>	CX 10040 provides 8 Tbps for bidirectional switching	CX 10040 provides 8 Tbps for bidirectional switching	CX 10040 provides 8 Tbps for bidirectional switching
<b>Memory and processor</b>	CPU: AMD® V3C48 processor Switch memory, drive and flash: 120 GB M.2 SSD, 64 MB SPI Flash, 2 x 32 GB DDR5 SODIMM Series Comment:	CPU: AMD® V3C48 processor Switch memory, drive and flash: 120 GB M.2 SSD, 64 MB SPI Flash, 2 x 32 GB DDR5 SODIMM Series Comment:	CPU: AMD® V3C48 processor Switch memory, drive and flash: 120 GB M.2 SSD, 64 MB SPI Flash, 2 x 32 GB DDR5 SODIMM Series Comment:
<b>Power supply</b>	2xS4R52A (Front-to-Back) or 2xS4R53A (Back-to-Front)	2xS4R52A (Front-to-Back) or 2xS4R53A (Back-to-Front)	2xS4R52A (Front-to-Back) or 2xS4R53A (Back-to-Front)
<b>Management features</b>	CLI REST API SNMP HPE Aruba Networking Fabric Composer HPE Aruba Networking Switch Multi-Edit Software HPE Aruba Networking Central RJ-45 serial port AMD® Pensando® PSM USB-C console	CLI REST API SNMP HPE Aruba Networking Fabric Composer HPE Aruba Networking Switch Multi-Edit Software HPE Aruba Networking Central RJ-45 serial port AMD® Pensando® PSM USB-C console	CLI REST API SNMP HPE Aruba Networking Fabric Composer HPE Aruba Networking Switch Multi-Edit Software HPE Aruba Networking Central RJ-45 serial port AMD® Pensando® PSM USB-C console
<b>Operating temperature</b>	0°C to 40°C (32°F to 104°F) up to 3.0 km (10,000 ft)	0°C to 45°C (32°F to 113°F) at sea level	0°C to 40°C (32°F to 104°F) up to 3.0 km (10,000 ft)
<b>Warranty</b>	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 10040 Field Replacement Unit Switch (S4R58A)	HPE Aruba Networking CX 10040 TAA Field Replacement Unit Switch (S4R59A)
<b>Power consumption</b>	<p>CX 10000 Maximum: 753W Idle: 400W</p> <p>CX 10040 Maximum: 1580W Idle: 650W</p>	<p>CX 10000 Maximum: 753W Idle: 400W</p> <p>CX 10040 Maximum: 1580W Idle: 650W</p>
<b>Input voltage</b>	100–240 VAC	100–240 VAC
<b>Ports</b>	<p>CX 10000: 48 x 25GbE SFP+, 6 x 100Gb QSFP</p> <p>CX 10040: 32 x 100GbE QSFP, 6 x 400GbE QSFP-DD, 2 x 10GbE SFP+</p>	<p>CX 10000: 48 x 25GbE SFP+, 6 x 100Gb QSFP</p> <p>CX 10040: 32 x 100GbE QSFP, 6 x 400GbE QSFP-DD, 2 x 10GbE SFP+</p>
<b>Latency</b>	<p>&lt;1 µs (without redirect)</p> <p>&lt;5 µs (with redirect)</p>	<p>&lt;1 µs (without redirect)</p> <p>&lt;5 µs (with redirect)</p>
<b>Switching capacity</b>	<p>CX 10000: 3.2 Tbps (6.4Tbps full-duplex)</p> <p>CX 10040: 1.8 Tbps (3.6 Tbps full-duplex)</p>	<p>CX 10000: 3.2 Tbps (6.4Tbps full-duplex)</p> <p>CX 10040: 1.8 Tbps (3.6 Tbps full-duplex)</p>
<b>Stacking capabilities</b>	Yes	Yes
<b>Memory and processor</b>	<p>CX 10000 CPU: Intel® Xeon® D-1637 6-core processor at 2.90 GHz Switch memory, drive and flash: 32 GB RAM, 64 GB SSD</p> <p>CX 10040 CPU: AMD® V3C48 processor Switch memory, drive and flash: 120 GB M.2 SSD, 64 MB SPI Flash, 2 x 32 GB DDR5 SODIMM</p>	<p>CX 10000 CPU: Intel® Xeon® D-1637 6-core processor at 2.90 GHz Switch memory, drive and flash: 32 GB RAM, 64 GB SSD</p> <p>CX 10040 CPU: AMD® V3C48 processor Switch memory, drive and flash: 120 GB M.2 SSD, 64 MB SPI Flash, 2 x 32 GB DDR5 SODIMM</p>
<b>Power supply</b>	Field-replaceable, hot-swappable, and up to two power supplies	Field-replaceable, hot-swappable, and up to two power supplies
<b>Management features</b>	<p>CLI</p> <p>REST API SNMP</p> <p>HPE Aruba Networking Fabric Composer</p> <p>HPE Aruba Networking Switch Multi-Edit Software</p> <p>HPE Aruba Networking Central</p> <p>RJ-45 serial port AMD® Pensando® PSM</p> <p>Micro USB console (CX 10000)</p> <p>USB-C console (CX 10040)</p>	<p>CLI</p> <p>REST API SNMP</p> <p>HPE Aruba Networking Fabric Composer</p> <p>HPE Aruba Networking Switch Multi-Edit Software</p> <p>HPE Aruba Networking Central</p> <p>RJ-45 serial port AMD® Pensando® PSM</p> <p>Micro USB console (CX 10000)</p> <p>USB-C console (CX 10040)</p>
<b>Operating temperature</b>	0°C to 40°C (32°F to 104°F) up to 3.0 km (10,000 ft) or 0°C to 45°C (32°F to 113°F) at sea level in S4R54A	0°C to 40°C (32°F to 104°F) up to 3.0 km (10,000 ft) or 0°C to 45°C (32°F to 113°F) at sea level in S4R54A
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration.	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](https://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](#).

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