

# HPE Aruba Networking CX 10000-48Y6C Distributed Services Front-to-Back 6 Fans 2 PSU Switch Bdl (R8P13A)



---

## What's new

- A category of Distributed Services Switch.
- Aruba CX with embedded Programmable DPU (Pensando Elba).
- Unified network and security policy via Aruba Fabric Composer.
- Security ecosystem integration with 3rd party vendors.
- Leverages existing Aruba AOS-CX Cloud Native Switching.

## Overview

The HPE Aruba Networking CX 10000 Switch Series with Pensando is a category of switch that combines best-of-breed Aruba data center L2/3 switching with the industry's first hardware-accelerated programmable processor (Pensando® P4). The HPE Aruba Networking CX 10000 delivers stateful software-defined services inline, at scale, with wire-rate performance and orders of magnitude scale and performance improvements over traditional data center L2/3 switches at a fraction of their TCO.

## Features

### Improves Network Bandwidth and Performance

HPE Aruba Networking CX 10000 Switch Series with Pensando offers a unique blend of performance and scale for distributing advanced networking and security services where it's 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.

### Limit Security Appliance Sprawl and Cost

HPE Aruba Networking CX 10000 Switch Series with Pensando 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 HPE Aruba Networking CX 10000 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 Micro Segmentation

The HPE Aruba Networking CX 10000 allows operators to extend industry standard leaf-spine networking with 800G 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 Policy and Services and Manager (PSM) based on specific security roles and responsibilities for increased scalability and fault tolerance.

### Simplify Operations

HPE Aruba Networking CX 10000 Switch Series with Pensando is integrated with Aruba 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 HPE Aruba CX 10000 integrates via a Rest API and 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.

## Technical specifications

## HPE Aruba Networking CX 10000-48Y6C Distributed Services Front-to-Back 6 Fans 2 PSU Switch Bdl

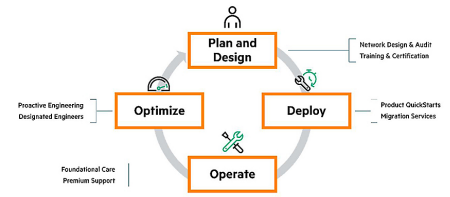
<b>Product Number</b>	R8P13A
<b>Ports</b>	48 SFP28 6 QSFP28
<b>Memory and processor</b>	CPU: 2.9GHz, 32 GB 92x16 GB) SODIMM, 64GB SSD, 32 MB SPI Flash (BIOS), 64 MB SPI Flash (SVOS) Packet Buffer: 32 MB DPU: 2 x Pensando Elba 3GHz
<b>Latency</b>	< 1.3 $\mu$ s
<b>Throughput</b>	1,940 Mpps
<b>Routing/switching capacity</b>	1.8 Tbps (3.6 Tbps full-duplex)
<b>Switch fabric speed</b>	3.2 Tbps (6.4 Tbps full-duplex)
<b>Switching capacity</b>	1.8 Tbps (3.6 Tbps full-duplex)
<b>Routing capabilities</b>	Static (IPv4/IPv6): RIPv2 RIPng OSPF OSPFv3 BGP-4 MP-BGP with IPv6 PBR ECMP GRE
<b>Management features</b>	CLI REST API SNMP Aruba Fabric Composer NetEdit RJ-45 console Port USB micro console port RJ-45 out of band management port
<b>Power supply name</b>	2 X R8R51A (Front-to-Back) or 2 X R8R52A (Back-to-Front)
<b>Input voltage</b>	100-240VAC
<b>Operating temperature</b>	0-40 C
<b>Power consumption</b>	550W
<b>Heat dissipation</b>	1,876 BTU/hr
<b>Product dimensions</b>	4.44 x 43.82 x 51.1 cm
<b>Weight</b>	9.75 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: [arubanetworks.com/services/](https://arubanetworks.com/services/)



## Support Services from HPE Aruba Networking

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 from HPE Aruba Networking

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 Aruba Networking Network as-a-Service (NaaS)

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.

[Find a partner](#)



Chat now (sales)



Share now



Get updates

© Copyright 2024 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

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.

Pensando® is a registered trademark of Pensando Systems Inc. in the U.S. and other countries.

Image may differ from the actual product  
[PSN1014382087WWEN](#), February, 2024.