

HPE Aruba CX 6000 48G Class4 Switch



# HPE Aruba CX 6000 48G Class4 Switch Specifications and Datasheet

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HPE Aruba CX 6000 48G Class4 Switch



Aruba 6000 48G Class4 PoE 4SFP 370W Switch (R8N85A)

Overview

The Aruba CX 6000 Switch Series is a modern family of entry-level access switches ideal for branch offices, midsize businesses, and small enterprises. Designed for reliable, simple, and security-enhanced access, the Aruba CX 6000 series provides a convenient and cost-effective wired access solution for networks supporting IoT, mobile, and cloud applications.

The Aruba CX 6000 series is based on the Aruba ASIC architecture with the programmable AOS-CX operating system used across the entire Aruba CX portfolio for a more consistent, more efficient operator experience. This fully-managed series has convenient built-in uplinks with up to 740W of Class 4 PoE to support IoT devices such as security cameras and wireless APs. A compact and fanless model is ideal for use in quiet, small workspaces. The Aruba CX 6000 series is easy to deploy and use with flexible management choices, allowing the best fit for your business and network environment.

## **Features**

- Entry Level Aruba CX Access Layer Switches
- The Aruba CX 6000 Switch Series offers Ethernet gigabit connectivity and optional PoE to provide entry-level, reliable, and convenient wired access connectivity for enterprise branch offices and SMB networks.
- Using the Aruba AOS-CX operating system across Aruba CX switching platforms and access-to-core-to-data center deployment domains provides a simpler, more consistent operator experience.
- Fully-managed enterprise-class switches deliver Layer 2 capabilities with support for static routing, ACLs, robust QoS, traffic prioritization, sFlow, and IPv6 support.
- Right size deployment with choice of 12, 24, and 48 port 1U models with convenient built-in 1GbE uplinks and up to 740W of Class 4 PoE.
- Simplifies ownership with no switch software licensing or subscriptions required.

## **Performance and Power**

- The Aruba CX 6000 Switch Series is designed with Aruba ASICs that deliver very low latency, increased packet buffering, and adaptive power consumption.
- Deploy wireless access points and IoT devices with Aruba CX 6000 switch models that support up to 740W IEEE 802.3at Class 4 Power over Ethernet for up to 30W per port.
- Up to four built-in wire speed 1GbE, uplinks remove bottlenecks at the access layer where users and devices connect.

## **Simplified Configuration and Management**

- The Aruba CX 6000 Switch Series provides flexibility to manage and simplify configurations with Aruba NetEdit, Aruba Central [1], easy-to-use Web GUI, or industry-standard CLI.
- Aruba NetEdit introduces automation that allows for rapid network-wide changes and verifies policy conformance post-network updates.
- Software-defined ready with REST APIs for fine-grained programmability of network tasks.
- Reduce manual IT operation tasks around initial deployment or ongoing configuration changes to accommodate adds, moves, and changes with colorless ports using local user roles and local-MAC-Authentication (LMA).

## **What's new**

- Simplify IT operations with a modern Layer 2 Gigabit Ethernet switch series that provides entry-level, reliable, and convenient wired access connectivity.
- Convenient built-in 1GbE uplinks and up to 740W of Class 4 PoE for support of access points, clients, and IoT devices.
- Compact and fanless 12 port PoE model for space-constrained deployments.
- Flexibility to manage with Aruba Central [1], easy to use Web GUI, CLI, or Aruba NetEdit.
- Software-defined and ready with REST APIs.
- HPE Limited Lifetime Warranty and switch software embedded with no subscription required to enable.

## Technical specifications

- **Product Information:**

- **Product Number:** R8N85A

- **Ports:**

- 48x ports 10/100/1000BASE-T ports
- 4x 1G SFP ports

- **Memory and Processor:**

- Dual Core ARM Cortex A9 @ 1016 MHz
- 8 GB DDR3 (maximum, depending on model)
- 16 GB eMMC

- **Performance:**

- **Latency:** 1 Gbps: 1.9 µSec
- **Throughput:** 77.3 Mpps
- **Switching Capacity:** 104 Gbps

- **Power over Ethernet (PoE):**

- **PoE Capability:** 370W Class 4 PoE/PoE+
- **Power Consumption:**
  - Max Power (w/o PoE): 45W
  - Max Power (w/ PoE): 480W

- **Routing:**

- Static Routing capabilities

- **Operating Environment:**

- **Operating Temperature:** 32°F to 113°F (0°C to 45°C) up to 5000 ft (1.5 km), derate -1°C for every 1000 ft (305 m) from 5000 ft (1.5 km) to 10000 ft (3.0 km)

- **Power Input:**

- **Input Voltage:** 100-127 VAC / 200-240 VAC

- **Product Dimensions and Weight:**

- **Product Dimensions (Metric):** 4.4 x 44.2 x 30.5 cm
- **Weight:** 5.0 kg

[1] Aruba Central support coming in a future release.

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/](https://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](#).

Make the right purchase decision. Contact our presales specialists.

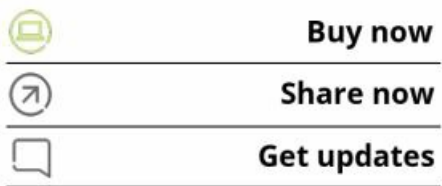
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- The image may differ from the actual product
- PSN1014138705BEEN, May, 2023.

**Frequently Asked Questions**

Can I use the Aruba CX 6000 switch in a data center environment?

Yes, it is suitable for data center deployments due to its high-performance capabilities and support for advanced features.

Does the Aruba CX 6000 switch support IPv6?

Yes, it supports IPv6, making it future-proof for modern networking requirements.

What are the power consumption specifications for the Aruba CX 6000 switch?

The power consumption varies depending on the configuration and usage but is typically within the range specified in the product documentation.

What makes the IHPE Aruba CX 6000 48G Class4 Switch stand out from other switches in the Aruba product lineup?

The IHPE Aruba CX 6000 48G Class4 Switch offers a unique balance of features, making it suitable for specific networking requirements within the Aruba product family.

Can I use the IHPE Aruba CX 6000 48G Class4 Switch for edge computing deployments, and what advantages does it offer in such scenarios?

Yes, the IHPE Aruba CX 6000 is well-suited for edge computing deployments, providing low-latency connectivity and robust management features to support edge devices.

Is the IHPE Aruba CX 6000 48G Class4 Switch compatible with third-party network management software, or do I need to use Aruba's proprietary management tools?

While it integrates seamlessly with Aruba's management solutions, it also supports standard network management protocols, allowing you to use third-party software for management if desired.

How does the IHPE Aruba CX 6000 48G Class4 Switch contribute to energy efficiency and sustainability in a network infrastructure?

The IHPE Aruba CX 6000 is designed with energy-efficient components and power-saving features, contributing to reduced energy consumption and a greener network operation.

Can I rely on Aruba's customer support for assistance with the IHPE Aruba CX 6000 48G Class4 Switch, and what service options are available for this product?

Aruba offers comprehensive customer support, including technical assistance and various service options, ensuring that you have the necessary support for your IHPE Aruba CX 6000 switch.

What type of businesses or organizations can benefit the most from deploying the IHPE Aruba CX 6000 48G Class4 Switch in their network infrastructure?

The IHPE Aruba CX 6000 switch is ideal for a wide range of businesses and organizations, including enterprises, data centers, education institutions, and healthcare facilities, due to its versatility and advanced features.

How does the IHPE Aruba CX 6000 48G Class4 Switch support Quality of Service (QoS) for prioritizing network traffic?

The IHPE Aruba CX 6000 switch offers advanced QoS capabilities, allowing you to prioritize critical applications and ensure a high-quality user experience for voice, video, and data traffic.

Can I expand the IHPE Aruba CX 6000 48G Class4 Switch with additional modules or accessories to meet evolving network demands?

Yes, the IHPE Aruba CX 6000 switch supports various expansion modules and accessories, enabling you to adapt and expand your network infrastructure as needed.

What backup and redundancy features are available in the IHPE Aruba CX 6000 48G Class4 Switch to ensure uninterrupted network operation?

The IHPE Aruba CX 6000 switch provides redundancy features such as hot-swappable power supplies and fans, as well as support for network resiliency protocols like Rapid Spanning Tree Protocol (RSTP).

**Reference:** [HPE Aruba CX 6000 48G Class4 Switch Specifications and Datasheet-device.report](#)

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## References

- [User Manual](#)