

HPE Aruba Networking CX 6100 Switch Series

HPE Aruba Networking CX 6100 48G 4SFP+ Switch (JL676A)



What's new

- It simplifies IT operations with next-gen Layer 2 switch series that provides entry-level, reliable, and convenient wired access connectivity
- The CX 6100 series provides right size with 12, 24, and 48-port 1U models with convenient built-in 1/10GbE uplinks and up to 740W of Class 4 PoE
- It has compact and fan-less 12-port PoE model for space-constrained deployments
- The CX 6100 provides flexibility to manage and simplify configurations with HPE Aruba Networking Central, HPE Aruba Networking Switch Multi-Edit Software, easy to use Web GUI, or industry-standard CLI
- It offers scalability with an 8-member switch virtual switching framework (VSF) stacking for up to 384 downlink ports

Overview

The HPE Aruba Networking CX 6100 Switch Series is a modern family of entry-level access switches ideal for branch offices, mid-market enterprises, and SMB networks. Designed for reliable, simple, and secure access, this switch family provides a convenient wired access solution for enterprise networks supporting Internet of Things (IoT), mobile, and cloud applications.

Prepare your network for future demands with a powerful ASIC and the programmable HPE Aruba Networking CX Switch Operating System to deliver a more consistent, more efficient operator experience. This Layer 2 switch series has convenient built-in high speed uplinks with up to 740W of IEEE 802.3at Class 4 PoE to support IoT devices such as security cameras and wireless APs. A compact and fanless 12-port model is ideal for use in quiet workspaces. With robust quality of service (QoS), support for static routing, and IPv6, these switches also simplify ownership with no switch software licensing requirements.

Features

Entry-level Layer 2 access switches

The HPE Aruba Networking CX 6100 Switch Series offers gigabit connectivity with high-speed uplinks and optional PoE to provide entry-level, reliable, and convenient wired access connectivity for enterprise branch office and SMB networks.

The switch series delivers a simple, consistent operator experience with the HPE Aruba Networking CX Switch Operating System (AOS-CX) used across HPE Aruba Networking CX switching platforms.

It has fully-managed enterprise-class switches deliver Layer 2 capabilities with support for static routing, access control lists (ACLs), robust quality of service (QoS), traffic prioritization, sFlow®, and IPv6.

The CX 6100 series provides right-size deployment with choice of 12, 24, and 48-port 1U models with convenient built-in 1/10GbE uplinks and up to 740W of Class 4 PoE.

It simplifies ownership with no switch software licensing or subscriptions required.

AI-ready performance and power

The HPE Aruba Networking CX 6100 Switch Series is designed with a dedicated ASIC that delivers very low latency, increased packet buffering, and adaptive power consumption needed for AI, Wi-Fi 7, and Internet of Things (IoT) requirements.

It has up to 740W IEEE 802.3at Class 4 PoE with up to 30W per port supports newer Wi-Fi 7 and PoE devices.

The four built-in wire speed 1/10GbE uplinks mitigate bottlenecks at the access layer where users and devices connect.

Simplified configuration and management

The HPE Aruba Networking CX 6100 Switch Series provides flexibility to manage and simplify configurations with HPE Aruba Networking Central, HPE Aruba Networking Switch Multi-Edit Software, easy-to-use web GUI, or industry-standard CLI.

HPE Aruba Networking Switch Multi-Edit Software introduces automation that allows for rapid network-wide changes and verifies policy conformance post network updates.

The switch series offers unified management across wired, wireless, and WAN using HPE Aruba Networking Central.

It reduces manual IT operation tasks around initial deployment or on-going configuration changes to accommodate adds, moves, and changes with colorless ports using local user roles and local MAC authentication (LMA).

The CX 6100 series is ready for software-defined networking with REST APIs for fine-grained programmability of network tasks.

It offers virtual switching framework (VSF) stacking - Scale and simplicity

It support for up to eight switches (or members) in a stack through chain or ring topology.

It offers the flexibility to create stacks that span longer distances such as hundreds of meters across campuses to kilometers between sites.

It has the flexibility to mix 24 and 48-port modular and fixed CX 6100 models.

It has a simplified configuration and management as the switches act as a single chassis when stacked.

Technical specifications	HPE Aruba Networking CX 6100 48G 4SFP+ Switch
Product Number	JL676A
Differentiator	Non-PoE
Power consumption	Max. Power: 44.2W
Input voltage	100–127 VAC / 200–240 VAC
Ports	48 x 10/100/1000BASE-T ports 4 x 1G/10G SFP ports 1 x USB-C console port 1 x USB Type-A host port
Latency	1 Gbps: 1.9 µSec , 10 Gbps: 1.8 µSec
Switching capacity	176 Gbps
Throughput	98.6 Mpps
Memory and processor	Dual Core ARM Cortex A9 @ 1016 Mhz 4 GB DDR3, maximum, depending on model 16 GB eMMC
Power supply	Fixed power supply
PoE capability	Non-PoE model
Management features	Management flexibility with support for HPE Aruba Networking Central, easy-to-use Web GUI, CLI, and HPE Aruba Networking Switch Multi-Edit Software
Operating temperature	Maximum of 32°F to 113°F (0°C to 45°C) up to 5000 ft (1.5 km) derate by 1°C for every 1000 ft (305 m) from 5000 ft (1.5 km) to 10000 ft (3.0 km)
Weight	3.4 kg
Product dimensions	4.4 x 44.2 x 24.7 cm
Warranty	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

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.

HPE GreenLake for Networking

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

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

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