

# Aruba JL676A

## Datasheet



## Product Overview

- The HPE Aruba Networking CX 6100 Series is Aruba's entry-level Layer 2 access switching family, built for reliable, secure wired connectivity.
- Ideal for branch offices, mid-sized enterprises, and SMB networks that need always-on access for users, devices, and critical services.
- It delivers Gigabit access on all ports, hardware-accelerated switching, and integrated high-speed uplinks to handle growing edge and IoT traffic.
- Support for Class 4 PoE models, fanless compact variants, and versatile uplinks gives customers flexible options for different site designs.
- Centralized management, a modern AOS-CX operating system, and simple web or CLI tools help streamline deployment and daily operations.
- In IoT, mobile-first, and cloud-connected workplaces, CX 6100 provides a stable, future-ready access layer that is easy to own and scale.

## Product Highlights

- **Simplified Access Networking:** Next-generation Layer 2 design delivers dependable, entry-level wired access for branches, mid-market enterprises, and SMB networks.
- **Flexible Model Options:** Choose from 12, 24, or 48-port 1U switches with built-in 1/10GbE uplinks and up to 740W IEEE 802.3at Class 4 PoE.
- **Space-Saving Fanless Design:** Compact 12-port fanless PoE model fits quiet or space-constrained areas while still powering access points and IP devices.
- **Easy Centralized Management:** Operate via HPE Aruba Networking Central, Switch MultiEdit Software, intuitive web GUI, or familiar industry-standard CLI.

## Detailed Features



JL676A

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Component	Specification
Downlink Ports	48 × 10/100/1000BASE-T
Uplink Ports	4 × 1G/10G SFP
Console/USB	1 × USB-C console, 1 × USB Type-A host
Latency	1 Gbps: 1.9 μs; 10 Gbps: 1.8 μs
Switching Capacity	176 Gbps



## Entry-Level Enterprise Access

The HPE Aruba Networking CX 6100 Series is designed as a fully managed Layer 2 access solution for enterprise branches and SMB sites. It offers Gigabit connectivity on every port, combined with high-speed uplinks, to ensure user and device traffic is handled efficiently. This makes it suitable as the primary wired edge for offices, classrooms, and retail locations needing reliable day-to-day performance.

## Consistent AOS-CX Operating System

All CX 6100 switches run the Aruba AOS-CX operating system, the same platform used across Arubas higher-end switching lines. This unified software stack simplifies operations, training, and troubleshooting for IT teams. Shared CLI, automation tools, and monitoring features help keep configurations consistent and reduce the chances of errors across distributed networks.

## Rich Layer 2 and Basic Routing Features

Despite its entry-level positioning, the CX 6100 offers strong Layer 2 feature depth. It supports static routing for simple Layer 3 segmentation, access control lists for traffic filtering, sFlow for granular traffic visibility, and robust QoS for prioritizing voice, video, or business-critical applications. Native IPv6 support allows deployment in dual-stack or IPv6-focused networks without extra licenses.

## Right-Sized Models with PoE Options

The series includes 12, 24, and 48-port 1U variants with integrated 1/10GbE uplinks and up to 740W of IEEE 802.3at Class 4 PoE, depending on model. This gives planners flexibility to match port density and power budgets to specific sites, whether powering Wi-Fi access points, IP surveillance, or VoIP phones. Standardized form factors make it easy to fit into existing racks and wiring closets.

## Dedicated ASIC for AI-Ready Performance

CX 6100 switches use a dedicated ASIC designed for low latency, enhanced packet buffering, and adaptive power use. This hardware foundation supports demanding edge workloads such as Wi-Fi 7 access, dense IoT deployments, and latency-sensitive applications. The result is predictable performance during traffic bursts while still maintaining energy efficiency in normal operation.

## High-Power PoE for Next-Gen Devices

On PoE models, up to 740W of IEEE 802.3at Class 4 PoE is available, with up to 30W per port. This power budget supports newer Wi-Fi 7 access points, advanced IP cameras, and other PoE endpoints without external injectors. Built-in 1/10GbE uplinks help prevent congestion from these high-throughput devices, keeping access-layer traffic flowing smoothly toward the core.

## Flexible and Automated Management

The CX 6100 integrates with HPE Aruba Networking Central for unified wired, wireless, and WAN management. It also supports Aruba Switch Multi-Edit Software, which enables network-wide configuration changes and post-change policy verification. Administrators can use an intuitive web GUI or traditional CLI, and benefit from automation-oriented features such as colorless ports, local user roles, and local MAC authentication.

## SDN and VSF Stacking Ready

The series supports REST APIs for software-defined networking workflows and fine-grained programmability. Virtual Switching Framework (VSF) stacking allows up to eight switches to operate as a single logical device in chain or ring topologies. This enables stacks that span long distances, mix 24 and 48-port models, and simplify management by reducing the number of devices to configure and monitor.

# Technical Specifications

## Product Specifications

Feature	Value
Differentiator	Non-PoE
Power consumption (Max.)	Max. Power: 44.2W
Input voltage range 1	100–127 VAC
Input voltage range 2	200–240 VAC
Downlink ports	48 x 10/100/1000BASE-T ports
Uplink ports	4 x 1G/10G SFP ports
Console port type	1 x USB-C console port
USB host port type	1 x USB Type-A host port



Feature	Value
Latency at 1 Gbps	1 Gbps: 1.9 µSec
Latency at 10 Gbps	10 Gbps: 1.8 µSec
Switching capacity	176 Gbps
Throughput	98.6 Mpps
CPU Type	Dual Core ARM Cortex A9
CPU Frequency	1016 Mhz
System memory	4 GB DDR3, maximum, depending on model
Flash storage	16 GB eMMC
Power supply type	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 range base	Maximum of 32°F to 113°F (0°C to 45°C) up to 5000 ft (1.5 km)
Operating temperature derating	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 (H)	4.4 cm
Product dimensions (W)	44.2 cm
Product dimensions (D)	24.7 cm

## Product Comparison

Feature	JL676A	C9200L-48PXG-2Y-E	C9300-48P-E
Switching Capacity	176 Gbps	Up to 176 Gbps (48x mGig + uplinks)	Up to 256 Gbps (48x 1G + uplinks)
Downlink Ports	48 × 10/100/1000BASE-T	48 × 10/100/1000/mGig PoE+	48 × 10/100/1000 PoE+
Uplink Ports	4 × 1G/10G SFP	4 × 10G/25G uplinks (model dependent)	4 × 1G/10G SFP+
PoE Capability	Non-PoE model	High PoE+ budget for mGig APs	High PoE+ budget for access devices
Stacking / Virtual Chassis	VSF stacking up to 8 members	StackWise support (model dependent)	StackWise-480 stacking supported



Feature	JL676A	C9200L-48PXG-2Y-E	C9300-48P-E
Layer 3 Features	Layer 2 with static routing	Enhanced L2/L3 enterprise routing	Advanced L3 with full routing suite
Management	Aruba Central, Web GUI, CLI, Multi-Edit	Cisco DNA Center, Web UI, CLI, SNMP	Cisco DNA Center, Web UI, CLI, SNMP
Target Scenario	Entry-level access for branches and SMB	High-performance wired access with mGig	Enterprise campus access with rich services

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- AC Power Cord</li> <li>- Rack Mount Kit</li> <li>- Quick Installation Guide</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- 1G/10G SFP Transceivers</li> <li>- External Cable Management Brackets</li> <li>- USB Console Cable</li> </ul>



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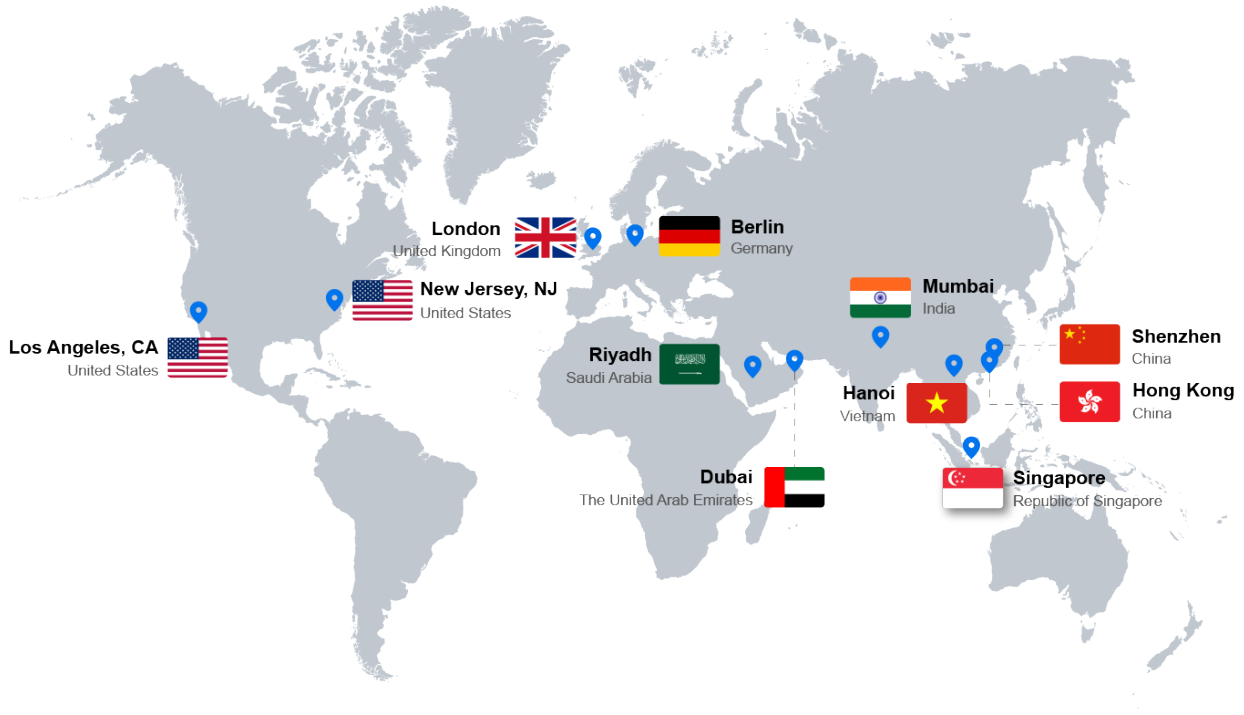
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## Global Footprint

Global Warehouses & Service Centers Across Continents.



## Global Branches

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### USA Branch

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### Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

### UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK



## References

[1] Hewlett Packard Enterprise. (2023). HPE Aruba Networking CX 6100 Switch Series JL676A Technical Specifications. Retrieved from <https://www.hpe.com/psnow/doc/PSN1013152644CAEN.pdf>