

# Aruba JL675A

## Datasheet



## Product Overview

- The HPE Aruba Networking CX 6100 Series, including JL675A, is an entry-level Layer 2 access switch line for reliable wired connectivity.
- Designed for branch offices, mid-market enterprises, and SMBs, it delivers secure access for users, devices, and critical business services.
- It offers Gigabit downlinks, high-speed 1/10GbE uplinks, and generous PoE power to support dense edge deployments and modern devices.
- A powerful ASIC and the AOS-CX operating system provide low latency, intelligent buffering, and a consistent experience across CX switches.
- Centralized cloud, web, and CLI management simplify rollout, while license-free software lowers long-term operating costs for IT teams.
- Ideal for IoT, mobile, and cloud-ready networks, JL675A helps future-proof access layers with simple, secure, and scalable wired connectivity.

## Product Highlights

- **Simplified Access Switching:** Next-generation Layer 2 CX 6100 switches streamline IT operations with stable, entry-level wired access for everyday enterprise connectivity.
- **Flexible Model Options:** Choose from 12, 24, and 48-port 1U models with integrated 1/10GbE uplinks and up to 740W Class 4 PoE to match site size and power needs.
- **Silent Compact Design:** A compact, fanless 12-port PoE model is ideal for small branches, open offices, and quiet environments with limited rack or wiring space.
- **Easy Management and Stacking:** Manage via Aruba Central, MultiEdit, Web GUI, or CLI, and scale with VSF stacking up to 8 members and 384 access ports.

## Detailed Features



JL675A

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Component	Specification
Downlink Ports	48 x 10/100/1000BASE-T ports
Uplink Ports	4 x 1G/10G SFP ports
PoE Support	IEEE 802.3af, IEEE 802.3at
Management / Console	1 x USB-C console, 1 x USB Type-A host
Performance	Latency: 1G 1.9 μSec / 10G 1.8 μSec, 176 Gbps switching



### Gigabit Access for Branch and SMB

The HPE Aruba Networking CX 6100 Series delivers reliable gigabit access with high-speed uplinks and optional PoE, making it well suited for enterprise branch offices and SMB networks. JL675A provides consistent wired connectivity for endpoints, access points, and IP devices, aligning access layer bandwidth with modern business applications and cloud services without unnecessary complexity.

### Unified AOS-CX Operating System

JL675A runs the Aruba AOS-CX operating system, shared across CX switching platforms to ensure a unified feature set and operational model. This common OS simplifies training, configuration practices, and troubleshooting across the network. Operators gain a familiar CLI, consistent policy behavior, and standardized automation hooks, reducing errors and speeding up deployment of new or replacement switches.

### Rich Layer 2 and Basic Routing Features

As an enterprise-class managed switch, JL675A supports Layer 2 capabilities plus static routing, ACLs, QoS, traffic prioritization, sFlow, and IPv6. These features enable segmentation at the edge, granular traffic filtering, and visibility into flows for capacity planning. Static routing at the access layer helps optimize small or fixed-topology sites, while IPv6 readiness ensures compatibility with next-generation addressing.

### Right-Sized PoE and Port Density

The CX 6100 series, including JL675A, offers 12, 24, and 48-port 1U options with integrated 1/10GbE uplinks and up to 740W of Class 4 PoE. This flexibility allows network designers to match switch capacity to user density and device power demands without overbuilding. High PoE budgets support dense deployments of APs, cameras, IP phones, and IoT endpoints, minimizing the need for separate power infrastructure.

### AI-Ready ASIC Architecture

JL675A uses a dedicated Aruba ASIC that delivers very low latency, expanded packet buffering, and adaptive power consumption. This hardware design is tuned for AI workloads, Wi-Fi 7 backhaul, and IoT traffic patterns at the access layer. The result is predictable performance under bursty conditions, better handling of microbursts, and energy efficiency that helps contain operational costs in large distributed networks.

### High PoE Budget for Next-Gen Devices

With support for up to 740W IEEE 802.3at Class 4 PoE, the CX 6100 family can deliver up to 30W per port to advanced Wi-Fi 7 access points and other high-power devices. This eliminates the need for midspan injectors and simplifies cabling. JL675As PoE design enables centralized power management, supports future device upgrades, and keeps edge infrastructure ready for evolving wireless and IoT requirements.

### Flexible, Automated Management

JL675A can be managed through HPE Aruba Networking Central, Switch Multi-Edit Software, a web GUI, or standard CLI. Multi-Edit introduces automation for network-wide changes, enabling administrators to push consistent configurations and verify policy compliance after updates. Unified management across wired, wireless, and WAN through Aruba Central reduces fragmented tooling and accelerates troubleshooting and change control.

### SDN-Ready and VSF Stacking

The switch is prepared for software-defined networking with REST APIs that expose fine-grained control for provisioning, monitoring, and integration with external systems. Virtual Switching Framework (VSF) stacking supports up to eight members in chain or ring topologies, allowing stacks to span hundreds of meters to kilometers. Mixed 24- and 48-port CX 6100 models can operate as one logical chassis, simplifying configuration, scaling, and failover behavior.

## Technical Specifications

### Product Specifications

Feature	Value
Differentiator	Class 4 PoE/PoE+
Power consumption (Max. Power w/o PoE)	45W
Power consumption (Max. Power w/ PoE)	480W
Input voltage	100–127 VAC / 200–240 VAC
Ports (Downlink)	48 x 10/100/1000BASE-T ports
Ports (Uplink)	4 x 1G/10G SFP ports
PoE standards supported	IEEE 802.3af, 802.3at



Feature	Value
Console port	1 x USB-C console port
Host port	1 x USB Type-A host port
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
Processor	Dual Core ARM Cortex A9 @ 1016 Mhz
System memory	4 GB DDR3, maximum, depending on model
Flash storage	16 GB eMMC
Power supply type	Fixed power supply
PoE capability	370W Class 4 PoE/PoE+
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	Maximum of 32°F to 113°F (0°C to 45°C) up to 5000 ft (1.5 km)
Temperature derating (5000–10000 ft)	derate by 1°C for every 1000 ft (305 m) from 5000 ft (1.5 km) to 10000 ft (3.0 km)
Weight	5.0 kg
Product dimensions (H x W x D)	4.4 x 44.2 x 30.5 cm

## Product Comparison

Feature	JL675A	JL665A	JL666A
Fixed Ports	48 x 10/100/1000BASE-T + 4 x 1G/10G SFP	48 x 10/100/1000BASE-T + 4 x SFP	24 x 10/100/1000BASE-T + 4 x SFP
PoE Capability	370W Class 4 PoE/PoE+	PoE+ with mid-range power budget	Higher PoE+ budget for dense AP/IP phone deployments
Switching Capacity	176 Gbps	Similar mid-range switching capacity	Similar mid-range switching capacity
Forwarding Performance	98.6 Mpps	Optimized for branch/SMB access loads	Optimized for smaller access segments
Management	Aruba Central, Web GUI, CLI, Multi-Edit	Aruba Central, Web GUI, CLI	Aruba Central, Web GUI, CLI



Feature	JL675A	JL665A	JL666A
Stacking / VSF	Up to 8-member VSF stack	Stacking supported on selected models	Stacking supported on selected models
Deployment Focus	Large access closets, PoE-heavy edge	General campus access switching	Smaller access zones or branch sites
Ideal Scenario	High-density IoT/Wi-Fi with strong PoE and VSF	Standard enterprise edge with mixed clients	Compact deployments where fewer ports are needed

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Fixed AC power supply (built-in)</li> <li>- Rack-mount kit and mounting screws</li> <li>- Console cable (USB-C or USB-A to console)</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP/SFP+ transceiver modules</li> <li>- Spare power cords for regional standards</li> <li>- External cable management brackets</li> </ul>



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### Shenzhen Branch

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### UK Branch

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## References

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