# Aruba JL741A

## Datasheet

# Product Overview

- The HPE Aruba Networking CX 6400 Series is a modular enterprise switch platform for campus and data center access, aggregation, and core.

- Designed for large campuses, branches, and data centers, it supports dense user, IoT, and mobile workloads across wired and wireless networks.

- It delivers up to 2.8 Tb fabric per slot in 5- or 10-slot chassis, high-density PoE, and line-rate 1/10/25/40/50/100GbE interfaces.

- Key differentiation includes a fully programmable AOS-CX operating system and Gen7 ASIC for advanced telemetry and automation.

- Network Analytics Engine (NAE) and VSX enable deep visibility, fast troubleshooting, and hitless upgrades with simplified operations.

- Ideal for high-performance IoT, cloud, and mobile environments, CX 6400 helps build a secure, resilient core with room for future growth.

# Product Highlights

- **Advanced Layer 3 and Services:** Modular Layer 3 platform with BGP, MPLS, EVPN, VXLAN, VRF, and OSPF plus rich QoS and security for complex enterprise cores.

- **High Performance Fabric:** Switching capacity up to 28 Tbps and 11.4 Bpps forwarding for non-blocking throughput in campus and data center deployments.

- **Always-On Architecture:** VSX live upgrades, redundant power supplies, and fans deliver high availability and minimize planned and unplanned downtime.

- **Intelligent Operations and Segmentation:** NAE, Aruba Central, NetEdit, and dynamic segmentation provide analytics-driven management and secure, role-based access.

# Detailed Features



JL741A

| Component | Specification |
|---|---|
| Product Series | HPE Aruba Networking CX 6400 |
| Ports | 96 x Gigabit Ethernet PoE+ + 4 x 50G SFP56 |

## High-Density Access and Aggregation Platform

JL741A belongs to the HPE Aruba Networking CX 6400 family and is built for high-density campus access and aggregation. With 96 Gigabit Ethernet PoE+ ports and 4 x 50G uplink expansion slots, it supports large numbers of users, phones, and APs from a single chassis. This density helps simplify wiring closets, reduce rack footprint, and consolidate power delivery without sacrificing performance.

## Next-Generation Layer 3 and Services Stack

As a full Layer 3 switch, JL741A supports advanced routing capabilities for large and segmented networks. It runs dynamic routing protocols such as OSPF and BGP and fits into multi-VRF designs where traffic isolation is required. Combined with MPLS, EVPN, and VXLAN support at the series level, it can participate in modern overlay networks and act as a gateway for distributed campuses and data centers.

## Flexible Media and Uplink Expansion

The switch supports both twisted pair and optical fiber media, letting you mix copper access with fiber uplinks and aggregation links. Four SFP56 expansion slots provide high-speed 50 Gigabit Ethernet capability for uplink or stacking style interconnects. This flexibility enables IT teams to design topologies that match existing cabling, distance needs, and future bandwidth growth without replacing the chassis.

## Resilient Power and Environmentally Friendly Design

Redundant power supply support protects against single PSU failures and increases overall uptime, an important factor for core and distribution roles. The design is noted as environmentally friendly, which helps organizations meet internal sustainability goals and regional compliance. Efficient PoE+ power usage and optimized cooling work together to lower ongoing energy consumption in dense deployments.

## Modular Architecture for Long-Term Scalability

JL741A is a modular switch, allowing you to adapt port types and capacities over time rather than replacing the entire platform. Expansion slots and interchangeable line cards make it easier to introduce new speeds or PoE capabilities as demands evolve. This approach protects capital investment and allows gradual upgrades as IoT, Wi-Fi, or backbone requirements increase across the network.

## Operational Simplicity with Centralized Management

The switch is designed to be fully manageable and integrates into centralized management platforms such as Aruba Central and NetEdit at the series level. Administrators can use a single pane of glass to push configurations, verify compliance, and automate routine tasks across wired, wireless, and WAN. This reduces manual effort, lowers configuration error risk, and speeds up rollout of new services across distributed sites.

## Optimized Form Factor for Rack Deployment

With a rack-mountable design, JL741A fits standard data center and campus racks, simplifying installation in global environments. The dimensions of 20.8" height, 17.4" width, and 17.7" depth enable predictable planning for space, airflow, and cable management. Consistent mechanical design across the 6400 family streamlines spares handling and deployment standards for integrators and large enterprises.

## Future-Ready for Evolving Access Technologies

By combining Gigabit Ethernet PoE+ access with 50 Gigabit Ethernet expansion, JL741A is ready to backhaul increasing traffic from Wi-Fi, video, and IoT endpoints. As endpoints and servers demand higher throughput, the 50G capable SFP56 interfaces can be used for aggregation and interconnect upgrades. This ensures the switch remains relevant as access technologies advance, avoiding early replacement due to bandwidth bottlenecks.

# Technical Specifications

## Product Specifications

| Feature | Value |
|---|---|
| Manufacturer Part Number | JL741A |
| Product Type | Layer 3 Switch |
| Manageable | Yes |
| Ethernet Technology | Gigabit Ethernet; 50 Gigabit Ethernet |
| Number of Total Expansion Slots | 4 |

| Feature | Value |
|---|---|
| Product Family | 6400 |
| Media Type Supported | Twisted Pair; Optical Fiber |
| Total Number of Network Ports | 96 |
| Redundant Power Supply Supported | Yes |
| Expansion Slot Type | SFP56 |
| Form Factor | Rack-mountable |
| Power Source | Power Supply |
| Layer Supported | 3 |
| Environmentally Friendly | Yes |
| Modular | Yes |
| Uplink Port | Yes |
| Port / Expansion Slot Details | 96 x Gigabit Ethernet PoE+; 4 x 50 Gigabit Ethernet Expansion Slot |
| Height | 20.8" |
| Width | 17.4" |
| Depth | 17.7" |

## Product Comparison

| Feature | JL741A | C9300-24UX-A | JL700A |
|---|---|---|---|
| Product Type | Layer 3 modular switch | Layer 3 fixed access switch | Layer 3 fixed aggregation switch |
| Total Ports | 96 x 1G PoE+ + 4 x 50G slots | 24 x mGig (100M/1/2.5/5/10G) | 48 x 1G + uplinks |
| Expansion Slots | 4 x SFP56 50G expansion | No modular expansion | Multiple fixed uplink options |
| PoE Capability | PoE+ on all 96 access ports | High-power UPOE/mGig on 24 ports | PoE/PoE+ models available |
| Form Factor | Rack-mountable modular chassis | 1RU rack-mountable | 1RU rack-mountable |
| Redundant Power | Supported (modular PSUs) | Supported (dual PSUs on some SKUs) | Supported on select models |
| Deployment Role | Campus access/aggregation chassis with 50G uplinks | High-density access for Wi-Fi 6/6E and mGig endpoints | Access or small aggregation in Aruba CX networks |

| Feature | JL741A | C9300-24UX-A | JL700A |
|---------|--------|--------------|--------|
| Scalability | High, via modular line cards and 50G expansion | Medium, limited to fixed ports | Medium, with fixed port configurations |

## Accessories

| Category | Accessories |
|----------|-------------|
| Included Accessories | - Rack-mount kit (rails or brackets)<br>- AC power supply module (model dependent)<br>- Quick installation guide and documentation |
| Optional Accessories | - Additional redundant power supply modules<br>- SFP/SFP+ and SFP56 transceivers for fiber uplinks<br>- High-speed DAC cables for stacking or uplink connections |

## Support & Warranty

| | | | | | |
|---|---|---|---|---|---|
| 24/7 Online Service | 3-Year Premium Warranty | Professional Technical Support | 100% Low Price Guarantee | 100% Quality Assurance | 100% Money Back Guarantee |

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# References

[1] Hewlett Packard Enterprise. (2023). HPE Aruba Networking CX 6400 Switch Series  JL741A Specification. Retrieved from https://www.hpe.com/psnow/doc/a00021508enw