

Aruba JL376A

Datasheet



Product Overview

- Aruba CX 8400 JL376A is a campus core and aggregation switch, built for modern mobile, cloud, and IoT-centric enterprise networks.
- Designed for large campuses, distributed enterprises, and data centers, it supports core, aggregation, and leaf-spine roles in one platform.
- An 8-slot modular chassis delivers up to 19.2 Tbps switching capacity with line-rate 10/25/40/100GbE ports for high-density backbone connectivity.
- Carrier-class high availability combines redundant fabric, management, power, and fans with Aruba VSX for nonstop services.
- AOS-CX OS, analytics, and automation tools simplify deployment, visibility, and troubleshooting across complex multi-site networks.
- Ideal for demanding campus cores and data centers needing scalable throughput, deep segmentation, and always-on, resilient connectivity.

Product Highlights

- **High-Density Terabit Performance:** Provides up to 19.2 Tbps switching capacity in a compact 8U, 8-slot chassis, with line-rate 10GbE, 25GbE, 40GbE, and 100GbE interfaces for high-bandwidth aggregation and core deployments.
- **Carrier-Class Resiliency:** Delivers high availability with HPE Aruba Networking VSX, redundant management modules, power supplies, and fabric, ensuring continuous operation for mission-critical campus and data center services.
- **Cloud-Native AOS-CX Automation:** Runs Aruba CX OS with built-in REST APIs and Python scripting, enabling automated provisioning, change management, and integration into DevOps and IT workflows for faster service rollouts.
- **Advanced Visibility and Segmentation:** Aruba Analytics Engine, dynamic VXLAN with BGP-EVPN, and rich L2/L3 features (BGP, EVPN, OSPF, VRF, IPv6) deliver deep segmentation and real-time insight for secure, scalable network designs.

Detailed Features



JL376A

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Component	Specification
Chassis Form Factor	8U modular rack-mountable core and aggregation switch
Switching Capacity	Up to 19.2 Tbps, 1.2 Tbps per slot
Interface Types	Line-rate 10/25/40/100GbE optical fiber ports
High Availability	Redundant fabric, management, power supplies, and fans
Operating System	HPE Aruba Networking AOS-CX with automation and analytics



Modern AOS-CX Architecture

The JL376A runs on AOS-CX, a database-driven network operating system designed for always-on environments. All configuration and state information is stored in a built-in time series database, allowing the switch to track historical events and status changes. This architecture gives IT teams a precise record of network behavior over time, enabling faster diagnosis of issues, smarter capacity planning, and proactive avoidance of scale, security, or performance bottlenecks in core and data center networks.

Comprehensive Native Feature Set

Every Aruba CX 8400 JL376A ships with a full, perpetual AOS-CX feature set, removing the need for basic software licensing. Native capabilities include Aruba Network Analytics Engine, dynamic segmentation, switch stacking, high availability, QoS, Layer 2 switching, Layer 3 routing, IP multicast, and security controls. These features support complex enterprise deployments out-of-the-box, so integrators and operators can deploy, connect, and troubleshoot without depending on add-on feature keys for fundamental services.

CX Advanced Feature Pack Flexibility

For organizations needing extended functionality, the optional Aruba CX Advanced Feature Pack unlocks container-based infrastructure on the switch. This allows HPE-certified applications to run directly on the platform, supporting advanced IT services such as security, analytics, or orchestration without extra appliances. Because these capabilities are term-based, customers can align software investments with project lifecycles while keeping the core AOS-CX features always available for long-term stability.

Stateful Linux-Based OS Design

AOS-CX is built on a modular Linux architecture with a stateful database at the core. All software processes interact with the database rather than with each other, which simplifies inter-process communication and improves resiliency. This model enables near real-time state updates, continuous synchronization, and robust fault isolation. Individual software modules can be upgraded independently, reducing disruption and allowing controlled, service-aware changes in demanding production environments.

Deep Visibility and Analytics Engine

The integrated Aruba Network Analytics Engine (NAE) provides advanced monitoring and diagnostics across JL376A deployments. NAE uses Python agents, CLI-based agents, and REST APIs to interrogate events that affect network health, including system, application, and security conditions. Telemetry data is stored in the time series database, so admins can quickly correlate symptoms with historical state, identify anomalies, and predict capacity needs. This reduces mean-time-to-resolution and enables data-driven maintenance planning.

Cloud or On-Prem Management with Central

Aruba Central delivers unified management for wired, WLAN, SD-WAN, and public cloud infrastructure, and fully supports the CX 8400. Through Central, IT teams can handle configuration, onboarding, monitoring, troubleshooting, and reporting from a single interface, either cloud-hosted or on-premises. Central Advanced licenses add premium security and AIOps, including NetConductor Fabric Wizard and Policy Manager for dynamic segmentation. They also activate the CX Advanced Feature Pack, simplifying subscription tracking and reducing operational overhead.

Automated Multi-Edit Configuration

Aruba Switch Multi-Edit allows administrators to orchestrate configuration changes across many CX switches, including JL376A-based cores and aggregations. With centralized search, edit, validation, and deployment functions, Multi-Edit ensures policy conformance after updates and speeds up large-scale rollouts. Custom validation tests can enforce design and compliance rules, while integration with Aruba NAE provides end-to-end visibility of network health and topology. A separate license is required, but it significantly reduces manual effort for multi-device environments.

Fabric Composer and Workflow Integration

The JL376A supports Aruba Fabric Composer, which offers software-defined orchestration for leaf-spine networks across rack-scale compute and storage. AOS-CX uses a micro-services architecture and open REST APIs with Python scripting, enabling integration with external workflow systems such as CI/CD pipelines or ITSM tools. Continuous state synchronization and fault monitoring ensure that orchestration systems always act on current network data. This combination allows agile, automated provisioning while maintaining high availability and operational control.

Technical Specifications

Product Specifications

Feature	Value
JL376A Specification	JL376A Specification



Feature	Value
Interfaces/Ports	Interfaces/Ports
Uplink Port	Uplink Port
Uplink Port Value	No
Modular	Modular
Modular Value	Yes
Stack Port	Stack Port
Stack Port Value	Yes
Media & Performance	Media & Performance
Media Type Supported	Media Type Supported
Media Type Supported Value	Optical Fiber
Ethernet Technology	Ethernet Technology
Ethernet Technology Value	10 Gigabit Ethernet, 40 Gigabit Ethernet, 100 Gigabit Ethernet
Network Technology	Network Technology
Network Technology Value	10GBase-X, 40GBase-X, 100GBase-X
I/O Expansions	I/O Expansions
Number of Total Expansion Slots	Number of Total Expansion Slots
Number of Total Expansion Slots Value	8
Network & Communication	Network & Communication
Layer Supported	Layer Supported
Layer Supported Value	3
Management & Protocols	Management & Protocols
Manageable	Manageable
Manageable Value	Yes
Power Description	Power Description
Power Source	Power Source
Power Source Value	Power Supply
Redundant Power Supply Supported	Redundant Power Supply Supported
Redundant Power Supply Supported Value	Yes
Physical Characteristics	Physical Characteristics
Compatible Rack Unit	Compatible Rack Unit



Feature	Value
Compatible Rack Unit Value	8U
Form Factor	Form Factor
Form Factor Value	Rack-mountable, Rail-mountable, Surface Mount
Height	Height
Height Value	13.8"
Width	Width
Width Value	17.4"
Depth	Depth
Depth Value	26"

Product Comparison

Feature	JL376A	C9500-24X-E	C1-N9KC93108FX-B24
Product Type	Modular core/aggregation switch chassis	Fixed-core enterprise switch	Fixed spine/leaf data center switch
Form Factor	8U modular chassis, up to 8 slots	1RU fixed switch	1RU fixed switch
Port Capabilities	Line-rate 10/25/40/100GbE via line cards	24 × 10G SFP+ ports	48 × 10/25G SFP28 + 6 × 40/100G QSFP28
Switching Capacity	Up to 19.2 Tbps	Up to multi-Tbps (platform dependent)	Up to multi-Tbps (high-density 25G/100G)
Redundancy	Redundant fabric, management, power, and fans	Redundant power supply options	Redundant power and fans
Stacking/Virtualization	Aruba VSX, chassis-based redundancy	StackWise Virtual (model dependent)	NX-OS virtual PortChannel (vPC)
Target Deployment	Campus core and data center aggregation	Enterprise core/distribution	Leaf-spine data center fabrics
Media Type	Optical fiber-centric design	Optical fiber SFP+	High-density optical 25G/100G

Accessories



Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Chassis mounting rails - Basic power supply modules (redundant-capable) - Console cable and documentation
Optional Accessories	<ul style="list-style-type: none"> - 10/25/40/100GbE line cards - Additional hot-swappable power supplies and fan trays - SFP+/QSFP+ and QSFP28 optical transceivers



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References

[1] HPE Aruba Networking. (2023). HPE Aruba Networking CX 8400 Switch Series JL376A Specification. Retrieved from <https://www.hpe.com/psnow/doc/a00021508enw>