

# Aruba JL706A

## Datasheet

## Product Overview

- Aruba's CX 8360 Series positions itself as a high-performance, flexible switch platform for advanced enterprise networking.
- It is designed for core and aggregation roles in large-scale campuses and dynamic data center networks that demand reliability.
- Key specs include up to 2.4Tbps switching, a diverse set of 1/10/25/40/100GbE interfaces, and a compact 1U form factor with leading port density.
- Differences such as 4x10Gbps/4x25Gbps breakout support and MACsec encryption ensure versatile and secure connectivity.
- Simple migration paths let enterprises upgrade from existing 1/10GbE or 40GbE networks to modern 25GbE and 100GbE environments.
- The Aruba CX 8360 delivers a future-ready, secure, and efficient solution for businesses adapting to the needs of mobile, cloud, and IoT workloads.

## Product Highlights

- **High-Performance Switching:** Delivers 2.4Tbps throughput and up to 1,145 Mpps, supporting intensive data traffic and large-scale workloads.
- **Advanced Network Analytics:** Features Aruba Network Analytics Engine for real-time monitoring, insight, and quick troubleshooting.
- **Redundancy & Reliability:** VSX redundancy, hot-swappable power, and fans ensure non-stop operation and business continuity.
- **Security & Automation:** Supports MACsec for secured connections and offers ArubaOS-CX programmability with REST APIs and Python.

## Detailed Features



JL706A

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Component	Specification
I/O Ports	48 x 100M/1GbE/10GBASE-T, 4 x 40GbE/100GbE (QSFP+/QSFP28)
Power Supplies	2 hot-swappable, field-replaceable units
Fans	3 hot-swappable, field-replaceable units
Management Ports	RJ-45 serial, USB-C console, RJ-45 Ethernet, USB-Type A



## Next-Generation Modular OS

Built on ArubaOS-CX, the JL706A uses a modern, database-driven OS that streamlines campus and data center network operations, offering higher automation and simplified management across dynamic environments.

## Powerful Performance Architecture

With a fully distributed, high-speed design, it supports up to 2.4Tbps bidirectional switching and 1,145 Mpps forwarding. This ensures consistent delivery in the most demanding, bandwidth-heavy applications.

## Comprehensive Connectivity Options

It adapts to diverse deployment scenarios with varying port densities, including multiple models offering combinations of 1/10/25/40/100GbE ports, both SFP and QSFP form factors for maximum flexibility.

## Flexible Breakout Capability

All QSFP+/QSFP28 ports (excluding 48x1G/10GBASE-T) allow 4x10G/4x25G breakout, expanding aggregation and uplink possibilities without hardware replacement or re-cabling.

## MACsec Security Integration

Selected models provide hardware-enforced MACsec encryption on both 10GbE and 25GbE links. This enables secured transport even in open or untrusted network segments, supporting compliance and confidentiality.

## Advanced Network Monitoring

Real-time visibility and analytics are baked in, as ArubaOS-CX gives always-available access to full network state, enhancing troubleshooting, security response, and lifecycle monitoring.

## Unmatched Automation and Programmability

REST APIs and Python scripting allow integration with external workflow tools. Microservices-based architecture ensures seamless process automation and rapid updates to support dynamic business needs.

## Intelligent Service Assurance

Jumbo frame support (up to 9K bytes) enables optimal backup and disaster recovery operations. Packet storm and loopback protection features further safeguard the network while enabling high service availability.

# Technical Specifications

## Product Specifications

Feature	Value
Model	JL706A
Switching Capacity	2.4Tbps
Forwarding Rate	1,145 Mpps
100M/1GbE/10GBASE-T Ports	48
40GbE/100GbE (QSFP+/QSFP28) Ports	4
Power Supplies	2, hot-swappable, field-replaceable
Fans	3, hot-swappable, field-replaceable
Management Interfaces	RJ-45 serial, USB-C console, RJ-45 Ethernet port, USB Type-A
MACsec Support	Selected ports at 10GbE/25GbE
Form Factor	1U
Jumbo Frame Support	Up to 9K bytes
Operating System	ArubaOS-CX, modular, Linux-based
API & Scripting	REST APIs, Python scripting



Feature	Value
Chassis Airflow	Port-to-power or power-to-port options
Additional Uplink Breakout	4x10Gbps/4x25Gbps breakout from QSFP+/QSFP28
SFP+/SFP28 Transceiver Support	1/10/25GbE (including 1GBASE-T, 10GBASE-T)
Unsupported Transceiver Mode	1G/10G user-enabled
Loopback Protection	Per-port, per-VLAN support
QoS	Strict Priority (SP), Deficit Weighted Round Robin (DWRR)
Packet Storm Protection	User-defined thresholds

## Product Comparison

Feature	JL706A	C8R08A	C9500-48Y4C-E
Switching Capacity	2.4Tbps	2.4Tbps	2.56Tbps
Forwarding Rate	1,145 Mpps	1,145 Mpps	1,785 Mpps
Fixed Ports	48 x 100M/1G/10GBASE-T + 4 x 40/100G QSFP	32 x 100M/1G/2.5G/5G/10G + 2 x 40G/100G QSFP28	48 x 1G/10G/25G SFP28 + 4 x 40G/100G QSFP28
Redundant Power	2 hot-swappable	2 hot-swappable	2 hot-swappable
Fan Design	3 hot-swappable	3 hot-swappable	4 hot-swappable
MACsec Support	Yes (selected ports)	Yes	Yes
Operating System	ArubaOS-CX	ArubaOS-CX	Cisco IOS XE
Management Interfaces	RJ-45 serial, USB-C, RJ-45 Mgmt, USB-A	RJ-45 serial, USB-C, RJ-45 Mgmt, USB-A	RJ-45 console, USB, Ethernet Mgmt
Application Scenario	Enterprise core/aggregation/DC top-of-rack	Campus and DC access and aggregation	Aggregation/core for large campus and DC

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Power Adapter</li> <li>- Mounting Brackets</li> <li>- Quick Start Guide</li> </ul>



Category	Accessories
Optional Accessories	<ul style="list-style-type: none"><li>- SFP/SFP+ Transceivers</li><li>- QSFP+/QSFP28 Modules</li><li>- Additional Power Supply Unit</li></ul>



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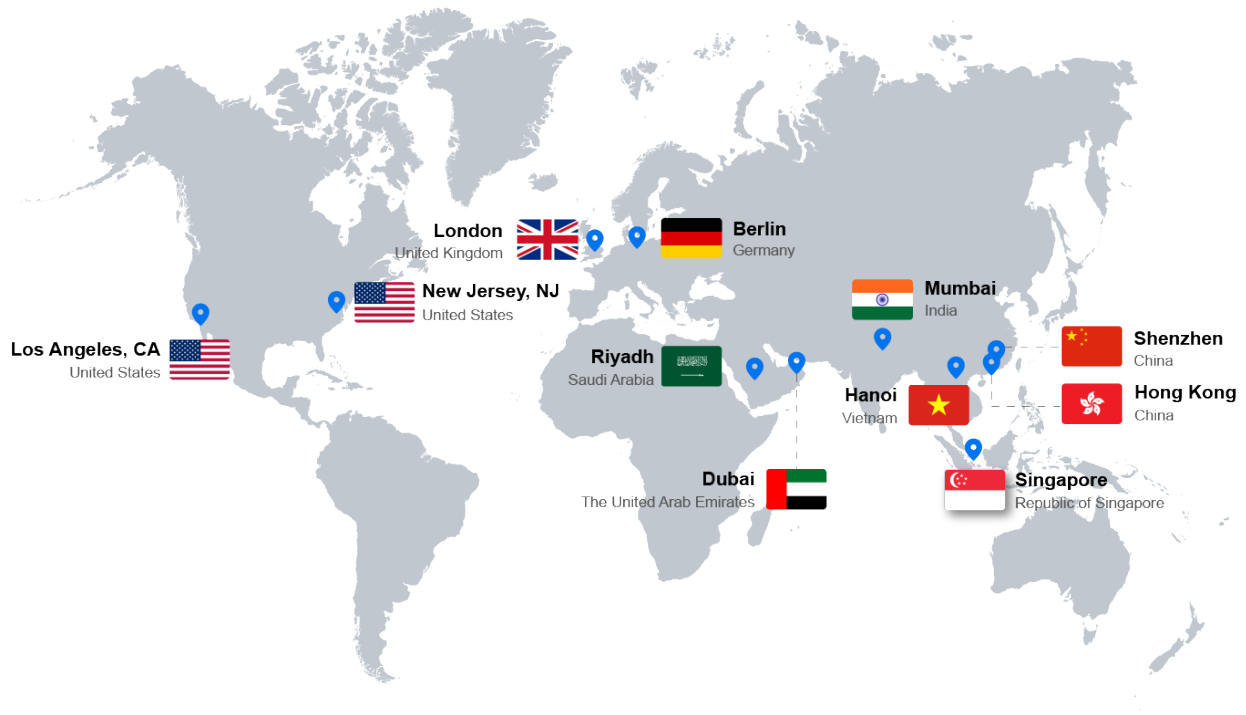
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## References

[1] Hewlett Packard Enterprise. (2023). Aruba CX 8360 Switch Series Data Sheet. Retrieved from <https://www.hpe.com/psnow/doc/a50002121enw>