

# Aruba JL707A

## Datasheet

## Product Overview

- Aruba CX 8360 Series is a high-end network switch product line built for performance, scalability, and secure network operations.
- The JL707A addresses the needs of campus core, aggregation layers, and advanced data center topologies, serving agile modern enterprises.
- It delivers up to 2.4Tbps switching capacity, with support for high-speed 1/10/25/40/100GbE ports in a compact 1U design.
- The switch features versatile port breakout of 4x10G and 4x25G from 40/100G, providing maximum connectivity and aggregation flexibility.
- Integrated ArubaOS-CX automation and robust security like MACsec enable simplified management and secure deployments.
- With future-ready, high-speed migration support, JL707A is ideal for organizations upgrading from legacy networks to next-generation infrastructure.

## Product Highlights

- **Unmatched Performance:** Supports 2.4Tbps switching capacity and 1,145 Mpps forwarding rate for demanding network environments.
- **Intelligent Analytics:** Chassis includes Aruba Network Analytics Engine for real-time traffic monitoring and enhanced troubleshooting.
- **High Availability:** Redundant power supplies, fans, and VSX technology provide continuous uptime with seamless failover.
- **Flexible Connectivity:** 1/10/25/40/100GbE, 1U form factor, MACsec secured connectivity, programmable with REST APIs and Python scripting.

## Detailed Features



JL707A

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



## Modern OS Architecture

The JL707A is powered by ArubaOS-CX, a modular, Linux-based operating system with OVSDB, enabling automation and reducing the complexity of critical network tasks. The OS offers continuous state access, comprehensive monitoring, and real-time analytics for dynamic visibility and rapid troubleshooting in core and data center environments.

## Microservices and Integration

With REST APIs and Python scripting, ArubaOS-CX allows for granular network control and automation. This microservices-based approach supports seamless workflow integration with external systems and services, enabling flexible and programmable network operations at scale.

## High-Speed Distributed Performance

JL707A features a fully distributed switching architecture, delivering up to 2.4Tbps bidirectional switching and 1,145 Mpps forwarding rate. This design ensures consistent, non-blocking performance for bandwidth-intensive applications, even as network loads and requirements increase.

## Scalable System Design

Designed to protect your network investment, JL707As scalable architecture accommodates evolving technologies and advanced high-speed connectivity. Multiple port density options ranging from 1GbE up to 100GbE make it suitable for future-oriented deployments and agile network growth.

## Versatile Connectivity Options

The switch provides a broad array of configurations: 48-port 100M/1GbE/10GBASE-T, plus 4-port 40/100GbE uplinks, and models supporting breakouts and MACsec for secure multi-speed connectivity. SFP/SFP+/SFP28 and QSFP+/QSFP28 compatibility ensure optimum flexibility for various campus and data center topologies.

## Flexible Transceiver Support

Unsupported Transceiver Mode (UTM) allows activation of non-standard 1G and 10G transceivers as needed. This adds deployment agility while maintaining core network stability, although official support is limited on such configurations.

## Intelligent Traffic Management

Aruba JL707A ensures robust quality of service via strict priority queuing, DWRR, and user-defined storm control thresholds. Advanced features support congestion avoidance, RDMA over Converged Ethernet (RoCEv2), and large jumbo frames for high-throughput network demands.

## Comprehensive Security & Diagnostics

MACsec encrypts traffic over untrusted domains, loopback testing assists maintenance, and built-in threat protection mechanisms safeguard against broadcast storms or configuration errors. Enables secure, reliable operations in mission-critical IT landscapes.

# Technical Specifications

## Product Specifications

Feature	Value
Product Series	Aruba CX 8360 Switch Series
Model	JL707A
Fixed Port Count	48 × 100M/1GbE/10GBASE-T
Uplink Slot Count	4 × 40GbE/100GbE (QSFP+/QSFP28)
Power Supply Units	2 hot-swappable, field-replaceable
Fan Units	3 hot-swappable, field-replaceable
Switching Capacity	2.4 Tbps
Forwarding Rate	1,145 Mpps
Form Factor	1U Rackmount
Console Ports	RJ-45 serial, USB-C
Management Port	RJ-45 Ethernet
USB Port	USB Type-A



Feature	Value
Supported Breakout	4x10Gbps/4x25Gbps from 40/100G ports
MACsec Support	Selected ports
Automation & Programmability	ArubaOS-CX with REST APIs, Python scripts
Monitoring Engine	Aruba Network Analytics Engine
High Availability	VSX redundancy, redundant power/fans
Supported Transceiver Types	SFP, SFP+, SFP28, QSFP+, QSFP28, 10GBASE-T, 1GBASE-T
Jumbo Frame Size	Up to 9K bytes
Unsupported Transceiver Mode	Yes
Loopback Support	Yes, internal and per-VLAN
QoS Mechanisms	SP queuing, DWRR
Traffic Controls	Packet storm protection
RDMA Support	RoCEv2
Layer 2/3 Protocols	BGP, OSPF, VRF, IPv6
Dimensions	Compact 1U design

## Product Comparison

Feature	JL707A	OS9-XNI-U12E-S	AM867D
Switching Capacity	2.4 Tbps	960 Gbps	1.2 Tbps
Fixed Ports	48 × 100M/1GbE/10GBASE-T	12 × 1/10/25/40/100GbE (QSFP28/SFP28)	48 × 1G SFP + 4 × 10G SFP+
Uplink Ports	4 × 40/100GbE (QSFP+/QSFP28)	4 × 100GbE	4 × 10G SFP+
Power Supply	2 hot-swappable	2 hot-swappable	2 fixed (optionally redundant)
Fan Design	3 hot-swappable fans	Removable fans	Removable fans
Layer 3 Support	BGP, OSPF, VRF, IPv6	BGP, OSPF, VRF	BGP, OSPF, VRRP
Management	CLI, Web, REST API, Python	CLI, SNMP	CLI, SNMP, Web
Security	MACsec, Packet Storm Protection	MACsec	Standard L2/L3 Security
Form Factor	1U Rackmount	1U Rackmount	1U Rackmount



Feature	JL707A	OS9-XNI-U12E-S	AM867D
Programmability	REST API, Python scripting	REST API	Basic scripting

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"><li>- Power Adapter</li><li>- Rack Mount Kit</li><li>- Console Cable</li></ul>
Optional Accessories	<ul style="list-style-type: none"><li>- SFP+/QSFP28 Transceiver</li><li>- Redundant Power Supply</li><li>- Advanced Network Module</li></ul>



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**High Connectivity:** [sales@router-switch.com](mailto:sales@router-switch.com)

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**Cooperative Partnerships:** [ccie-support@router-switch.com](mailto:ccie-support@router-switch.com)

### Phone

**USA:** +1-626-655-0998

**Hong Kong:** +852-25925389 / +852-25925411

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## Global Branches

### Headquarters (Hong Kong)

Rm 605, 6/F, Fa Yuen Comm Bldg, 75-77 Fa Yuen St, Mongkok, Kowloon, Hong Kong, China

### USA Branch

3592 Rosemead Blvd, B #220, Rosemead, CA 91770, USA

### 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). Aruba CX 8360 Switch Series Data Sheet. Retrieved from <https://www.hpe.com/psnow/doc/a50002121enw>