Aruba JL700A

Datasheet

Product Overview

- The Aruba CX 8360 Switch Series is an advanced switching solution from Aruba, built for high-performance campus and data center networks.

- These switches are perfect for large campus aggregation, core networking, and virtualized data center environments needing dynamic scaling.

- The 8360 delivers bandwidth up to 2.4Tbps, supports multiple line-rate Ethernet speeds from 1Gbps to 100Gbps, and features a compact 1U form factor.

- Key features include low-density MACsec security ports, flexible breakout options for 10G/25G, and robust 40/100G connectivity.

- Simplified deployment through automation, programmability with REST APIs, and integrated monitoring helps streamline network management.

- The CX 8360 provides secure, flexible, and investment-protected networking for enterprises seeking to future-proof their critical IT infrastructure.
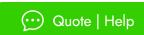
Product Highlights

- **High Performance Switching:** Delivers up to 2.4Tbps switching capacity and 1,145 Mpps packet forwarding for high-traffic environments.

- **Intelligent Visibility and Analytics:** Integrated Aruba Network Analytics Engine assists proactive monitoring and rapid troubleshooting.

- **Resilient System Design:** VSX redundancy, dual power supplies, and hot-swappable fans ensure continuous network uptime.

- **Comprehensive Security and Flexibility:** MACsec encryption, advanced Layer 2/3 features, and REST API support meet advanced compliance and automation needs.

Detailed Features

JL700A

Quote | Help

Component	Specification
1GbE/10GbE/25GbE Ports	28 (SFP/SFP+/SFP28)
10GbE/25GbE Ports with MACsec	4 (SFP+/SFP28)
40GbE/100GbE Ports	4 (QSFP+/QSFP28)
Optional Transceivers	1GBASE-T SFP, 10GBASE-T SFP+
Breakout Support	4x10G/25G breakout cables (from 40/100G ports)

Next-Gen Operating System

ArubaOS-CX is a database-driven, modular Linux OS that automates and simplifies critical switch operations, enhancing efficiency and enabling complex network tasks to be centrally managed.

Modular, Cloud-Ready Architecture

Native OVSDB and microservices architecture allow seamless integration with cloud workflows, REST APIs, and Python scripting for automated provisioning and granular control.

Distributed High-Speed Architecture

Fully distributed bidirectional switching achieves up to 2.4Tbps of network capacity and 1,145 Mpps forwarding rate, supporting todays most bandwidth-intensive applications without bottlenecks.

Flexible Port Density Options

Multiple models, including the 28 x 1/10/25GbE SFP and multiple QSFP models, give organizations a broad array of deployment choices for both campus networks and data center topologies.

Advanced MACsec Integration

Selected 10GbE and 25GbE ports offer hardware-based MACsec encryption, providing secure connections across untrusted domains for regulatory compliance and sensitive data protection.

Jumbo Frame & Breakout Support

Supports up to 9K jumbo frames, ideal for backups and disaster recovery, plus breakout capabilities for 4x10G/25G links on all QSFP+ and QSFP28 ports, enhancing flexibility.

Unsupported Transceiver Mode

Allows users to use and enable non-standard 1G/10G transceivers, giving more flexibility for legacy or mixed-vendor environments, with user-defined disclaimers on support.

Comprehensive Network Protection

Features like loopback detection, packet storm suppression, and strict QoS scheduling help prevent broadcast storms and ensure stable, reliable service delivery under all conditions.

Technical Specifications

Product Specifications

Feature	Value
I/O Ports - SFP/SFP+/SFP28	28 ports of 1GbE/10GbE/25GbE
I/O Ports - SFP+/SFP28 with MACsec	4 ports of 10GbE/25GbE with MACsec
I/O Ports - QSFP+/QSFP28	4 ports of 40GbE/100GbE (optional 1GBASE-T SFP, 10GBASE-T SFP+ transceivers and 4x10G/25G breakout cables supported)
Power Supplies	2 field-replaceable and hot-swappable power supplies
Fans	3 field-replaceable and hot-swappable fans
Console & Mgmt Ports	RJ-45 serial and USB-C console; RJ-45 Ethernet port; USB-Type A
Dimensions	1.73in x 17.4in x 16.0in (44.0mm x 442.5mm x 406.4)
Weight	18.05 lb (8.19 kg), 17.00 lb (7.71 kg, estimated)
CPU	1.8 GHz 4-core 64-bit
RAM	16GB RAM
Flash Storage	32GB Flash/Storage
Packet Buffer	32MB
Switching Capacity	2.4Tbps

Feature	Value
MAC Address Table Size	212,992
IPv4 Host Table	145,780
IPv6 Host Table	145,780
IPv4 Unicast Routes	606,977
IPv6 Unicast Routes	630,784
Max Ingress ACL Entries	IPv4 65,536, IPv6 16,384, MAC 65,536
Max Egress ACL Entries	IPv4 8,192, IPv6 2,048, MAC 8,192
Maximum VLANs	4,094
IGMP Groups	7,000
IPv4/IPv6 Multicast Routes	7,000/7,000
Operating Temp	32°F to 113°F (0°C to 45°C) up to 5000 ft
Operating Humidity	15% to 95% @113°F (45°C), non-condensing
Storage Temp	-40°C to 70°C (-40°F to 158°F) up to 4.6km (15,000 ft.)
Storage Humidity	15% to 95% @149°F (65°C), non-condensing
Max Operating Altitude	Up to 10,000ft (3.048Km)
Max Storage Altitude	Up to 15,000ft (4.6Km)
Airflow Options	Power-to-Port (PwrToPrt) or Port-to-Power (PrtToPwr)
Frequency	47-63 Hz
AC Voltage	7.1A for 100-127VAC, 3.4A for 200-240VAC
Power Consumption	Max: 425W, Idle: 120W

Product Comparison

Feature	JL700A	R8S92A	C9200L-48PL-4G-E
Switching Capacity	2.4Tbps	2.4Tbps	176 Gbps
Fixed Ports	28 × 1/10/25GbE SFP, 4 × 10/25GbE SFP with MACsec, 4 × 40/100GbE QSFP+/QSFP28	48 × 1/10/25GbE SFP + 6 × 40/100GbE QSFP28	48 × 1G PoE+ (UPOE), 4 × 1G/10G SFP+
MACsec Support	Yes (selected ports)	Yes (selected ports)	Not supported

Feature	JL700A	R8S92A	C9200L-48PL-4G-E
Redundant Power	Supported	Supported	Supported
Hot-swappable Fans	Yes	Yes	No (fixed)
Maximum VLANs	4,094	4,094	4,096
Stacking/ VSX	VSX virtual switching	VSX virtual switching	StackWise-160/ StackWise-80
Layer 3 Routing	IPv4/IPv6 (BGP, OSPF, VRF, etc.)	IPv4/IPv6 (BGP, OSPF, VRF, etc.)	Static, RIP, OSPF, EIGRP, BGP
QoS	Strict Priority, DWRR	Strict Priority, DWRR	Priority Scheduling, DSCP
Management Interface	REST API, Python, Aruba NAE	REST API, Python, Aruba NAE	Web UI, CLI, SNMP
Application Scenario	Core or Top-of-Rack	Core or ToR, larger deployment	Enterprise campus access/ aggregation

Accessories

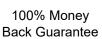| Category	Accessories
Included Accessories	- Two hot-swappable Power Supplies - Three Hot-swappable Fans - Rack Mount Kit
Optional Accessories	- 1GBASE-T SFP and 10GBASE-T SFP+ Transceivers - 4x10G/25G Breakout Cables - Console Cable

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