Aruba JL702A

Datasheet

Product Overview

- The Aruba CX 8360 Switch Series is a high-performance networking solution designed for the evolving needs of digital businesses.

- This series is ideal for campus core, aggregation layers, and modern data centers that demand agility, security, and scalability.

- It offers up to 2.4Tbps capacity, with 1GbE/10GbE/25GbE SFP and 40/100GbE QSFP ports in a compact 1U chassis.

- Aruba CX 8360 features flexible breakout options with 4x10G/4x25G from 40/100G ports for adaptive aggregation and connectivity.

- Integrated ArubaOS-CX enables advanced automation with REST APIs and Python scripting, simplifying complex network management tasks.

- This future-ready switch helps organizations transition from legacy speeds to 25GbE/100GbE, maximizing investment while ensuring secure and efficient operations.

Product Highlights

- **Extreme Performance:** Delivers 2.4Tbps bandwidth and up to 1,145 Mpps switching for demanding networks.

- **Intelligent Monitoring:** Features Aruba Network Analytics Engine for real-time network visibility and insights.

- **High Availability:** Industry-leading VSX redundancy, plus hot-swappable power supplies and fans for continuous uptime.

- **Versatile Deployment:** Optimized for core, aggregation, and top-of-rack or end-of-row use in data centers and campus networks.

Detailed Features

JL702A

Component	Specification
Switching Capacity	2.4 Tbps
Ports	16 × 1GbE/10GbE/25GbE (SFP/SFP+/SFP28), 2 × 40GbE/100GbE (QSFP+/QSFP28)
Breakout Support	4x10G/25G breakout from 40/100G ports
Transceiver Compatibility	Supports 1GBASE-T SFP, 10GBASE-T SFP+ transceivers
Form Factor	1U rackmount chassis

ArubaOS-CX Modular OS

Built on a modular Linux design, ArubaOS-CX provides real-time state monitoring and high visibility, helping administrators quickly resolve network issues and optimize performance.

Full Network Automation

With native REST APIs and Python scripting, Aruba CX 8360 supports end-to-end workflow integration, allowing custom automation and simplifying complex network operations across large deployments.

Distributed Architecture

Offers a distributed switching fabric delivering up to 2.4 Tbps of switching capacity and 1,145 Mpps forwarding, ensuring consistent high throughput for todays most demanding applications.

Scalable System Design

Multiple base models and flexible airflow configurations ensure adaptability, allowing future upgrades and supporting a variety of high-speed port densities to remain compatible with evolving network needs.

Versatile Connectivity Options

Models support up to 12× 40/100GbE QSFP+, 28× 1/10/25GbE SFP, or 48× 100M/1/10GbE 10GBASE-T, catering to diverse deployment scenarios and maximizing infrastructure flexibility.

High-Performance Jumbo Frames

Supports jumbo frames up to 9,000 bytes, enabling high-speed, large-packet transfers that benefit backup, storage, and disaster-recovery operations, without sacrificing network efficiency.

Enhanced Interoperability

The Unsupported Transceiver Mode (UTM) lets users employ non-certified 1G and 10G transceivers, enhancing flexibility, though official support is limited to certified modules.

Advanced Resilience & Protection

Features include loopback for maintenance, packet storm protection with user-defined thresholds, and strict QoS management via SP/DWRRensuring network stability and performance under heavy loads.

Technical Specifications

Product Specifications

Feature	Value
Fixed Ports	16 ports of 1GbE/10GbE/25GbE (SFP/SFP+/SFP28), 2 ports of 40GbE/100GbE (QSFP+/QSFP28)
Breakout Cable Support	4x10G/25G breakout cables supported from 40/100G ports
Power Supplies	2 field-replaceable, hot-swappable power supplies
Fans	3 field-replaceable, hot-swappable fans
Management Interfaces	RJ-45 serial & USB-C console, RJ-45 Ethernet, USB Type-A
Physical Dimensions	1.73in x 17.4in x 16.0in (44.0mm x 442.5mm x 406.4mm)
Full Config Weight	18.05 lb / 8.19 kg (estimated 17.00 lb / 7.71 kg)
CPU	1.8 GHz 4-core 64-bit
RAM	16GB
Flash Storage	32GB
Packet Buffer	32MB
Switching Capacity	2.4Tbps
MAC Address Table	212,992

Feature	Value
IPv4/IPv6 Host Table	145,780 each
IPv4/IPv6 Unicast Routes	606,977 / 630,784
ACL Entries Ingress/Egress	IPv4: 65,536 / 8,192; IPv6: 16,384 / 2,048; MAC: 65,536 / 8,192
Max 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 Relative Humidity	15% to 95% at 113°F (45°C), non-condensing
Non-Operating Temp	-40°C to 70°C (-40°F to 158°F)
Max Operating Altitude	10,000ft (3.048Km)
Max Non-Operating Altitude	15,000ft (4.6Km)
Primary Airflow	Power-to-Port (PwrToPrt) or Port-to-Power (PrtToPwr)
Frequency	47-63 Hz
AC Voltage	100-127VAC @ 7.1A, 200-240VAC @ 3.4A
Power Consumption	Max: 425W; Idle: 120W

Product Comparison

Feature	JL702A	Arista DCS-7160-48TC6-R	C9500-24Y4C-1E
Fixed Ports	16 × 1GbE/10GbE/25GbE SFP/SFP+/SFP28, 2 × 40/100GbE QSFP+/ QSFP28	48 × 10GbE (RJ45), 6 × 100GbE QSFP	24 × 25GbE SFP28, 4 × 100GbE QSFP28
Switching Capacity	2.4 Tbps	2.16 Tbps	2.16 Tbps
Forwarding Rate	1,145 Mpps	1,000 Mpps	1,440 Mpps
Redundant Power	Yes (2 hot-swappable)	Yes	Yes
Hot-Swappable Fans	Yes (3 fans)	Yes	Yes
Layer 3 Protocols	BGP, OSPF, VRF, IPv6	BGP, OSPF, IS-IS, VRF	RIP, OSPF, EIGRP, BGP, VRF-lite

Feature	JL702A	Arista DCS-7160-48TC6-R	C9500-24Y4C-1E
Management	ArubaOS-CX, REST API, Python	CLI, SNMP, CloudVision	Web, CLI, SNMP, NetFlow
Breakout Support	4x10G/25G on 40/100GbE ports	Supported (selected QSFP ports)	Supported on 100GbE QSFP28
Form Factor	1U	1U	1U
Typical Use	Campus core/data center aggregation	Data center top-of-rack/leaf	Enterprise core/data center access

Accessories

Category	Accessories
Included Accessories	- Power Cable - Rack Mount Kit - Console Cable
Optional Accessories	- 1GBASE-T SFP Module - 10GBASE-T SFP+ Module - 4x10G/25G Breakout Cable

Support & Warranty

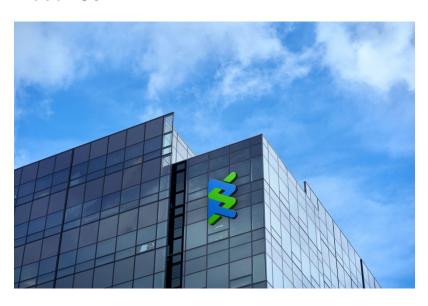| 24/7 Online Service | 3-Year Premium Warranty | Professional Technical Support | 100% Low Price Guarantee | 100% Quality Assurance | 100% Money Back Guarantee |

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References

[1] Hewlett Packard Enterprise. (2024). Aruba CX 8360 Switch Series Data Sheet. Retrieved from https://www.hpe.com/psnow/doc/a50002121enw