Aruba JL703A

Datasheet

Product Overview

- Aruba's CX 8360 Series switches deliver advanced networking for today's high-demand mobile, cloud, and IoT environments.

- These switches are built for next-generation core and aggregation layers, serving campuses and highly dynamic data centers.

- The JL703A provides up to 2.4Tbps capacity with line-rate 1/10/25/40/100GbE ports in a compact 1U form factor.

- Features such as breakout support on 40/100G ports and MACsec on select models enable secure, adaptive deployments.

- Centralized automation with ArubaOS-CX streamlines network management and real-time analytics across all deployments.

- This makes the JL703A ideal for businesses seeking performance, reliable scalability, and investment protection during network upgrades.

Product Highlights

- **High-Performance Switching:** Delivers up to 2.4Tbps and 1,145 Mpps for reliable, high-speed connectivity in demanding network environments.

- **Intelligent Network Visibility:** Aruba Network Analytics Engine provides real-time monitoring, enabling rapid troubleshooting and insights.

- **High Availability Design:** VSX redundancy plus dual hot-swappable power supplies and fans maximize uptime for campuses and data centers.

- **Advanced Automation & Security:** ArubaOS-CX REST APIs, Python scripting, and MACsec ensure secure, programmable, and flexible operations.

Detailed Features

JL703A

Component	Specification
Fixed Ports	16 × 1GbE/10GbE/25GbE (SFP/SFP+/SFP28)
Uplink Ports	2 × 40GbE/100GbE (QSFP+/QSFP28)
Breakout Capability	Supports 4x10G/25G breakout from 40G/100G ports
Transceiver Options	Supports 1GBASE-T SFP and 10GBASE-T SFP+ (optional)
Form Factor	1U rack-mountable

Modern Modular OS Platform

Built on ArubaOS-CX, the JL703A operates with a modular Linux architecture and OVSDB, offering a robust, database-driven environment that enables automated network operations. This structure provides always-on access to system state data for powerful analytics and reduces human error through programmable processes.

High-Performance Architecture

The CX 8360 achieves up to 2.4Tbps line-rate switching and 1,145 Mpps forwarding thanks to its fully distributed architecture. This ensures consistent data transfer and supports heavy workloads in cloud, data center, and high-bandwidth application environments.

Investment-Protecting Scalability

The JL703As scalable design supports future roadmap upgrades, allowing users to migrate from existing 1GbE/10GbE to higher-speed 25GbE or even 100GbE connections. Multiple base models suit diverse topologies, ensuring organizational growth without heavy infrastructure change.

Versatile Port and Connectivity Options

Supports a wide variety of connectivity requirements, including 1/10/25GbE SFP/SFP+/SFP28, and 40/100GbE QSFP+/QSFP28 with flexible breakout support. Optional 10GBASE-T and 1GBASE-T ensure compatibility with existing cables and incremental upgrades.

Jumbo Frame and Storm Protection

With support for 9K byte jumbo frames, the switch optimizes backup and disaster-recovery performance. Packet storm control with configurable thresholds enhances network robustness against broadcast, multicast, or unicast storms.

Open Transceiver Mode

Unsupported Transceiver Mode (UTM) enables the use of third-party 1G/10G transceivers and cables, giving users cost-saving flexibility for legacy or specialty connections, though these operate outside of official warranty/support.

Comprehensive L2/L3 Services

Robust Quality of Service (QoS) including SP, DWRR, BGP, OSPF, VRF, and IPv6 features allow advanced traffic management, congestion avoidance, and routing scalability necessary for modern converged networks.

Enhanced Security and Automation

MACsec secured connectivity on selected ports protects data over untrusted domains, while REST APIs and Python scripting automate deployments and streamline integration with orchestration and monitoring systems.

Technical Specifications

Product Specifications

Feature	Value
Fixed Ports	16 ports of 1GbE/10GbE/25GbE (SFP/SFP+/SFP28)
Uplink Ports	2 ports of 40GbE/100GbE (QSFP+/QSFP28)
SFP/SFP+ Transceiver Support	Optional 1GBASE-T SFP and 10GBASE-T SFP+ transceivers
Breakout Cable Support	4x10G/25G breakout cables supported
Power Supplies	2 field-replaceable and hot-swappable power supplies
Fans	3 field-replaceable and hot-swappable fans
Console/Management Ports	RJ-45 serial, USB-C console, RJ-45 Ethernet port, USB-Type A
Physical Dimensions	1.73in x 17.4in x 16.0in (44.0mm x 442.5mm x 406.4mm)
Weight (full config)	18.05 lb / 8.19 kg; Estimated: 17.00 lb / 7.71 kg
CPU	1.8 GHz 4-core 64-bit

Feature	Value
Memory	16GB RAM, 32GB Flash/Storage
Packet Buffer	32MB
Switching Capacity	2.4Tbps
MAC Address Table Size	212,992
IPv4 Host Table	145,780
IPv6 Host Table	145,780
IPv4 Routes	606,977
IPv6 Routes	630,784
Ingress ACL Entries	IPv4: 65,536; IPv6: 16,384; MAC: 65,536
Egress ACL Entries	IPv4: 8,192; IPv6: 2,048; MAC: 8,192
Maximum VLANs	4,094
IGMP Groups	7,000
IPv4 Multicast Routes	7,000
IPv6 Multicast Routes	7,000
Operating Temperature	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 Temperature	-40°C to 70°C (-40°F to 158°F) up to 4.6km (15,000 ft.)
Non-Operating Relative Humidity	15% to 95% at 149°F (65°C), non-condensing
Max Operating Altitude	Up to 10,000ft (3.048Km)
Max Non-Operating Altitude	Up to 15,000ft (4.6Km)
Primary Airflow	Power-to-Port (PwrToPrt) or Port-to-Power (PrtToPwr)
AC 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	JL703A	C9500-32C-EDU	Arista DCS-7020SR-32C2#
Switching Capacity	2.4Tbps	6.4Tbps	2.5Tbps

Feature	JL703A	C9500-32C-EDU	Arista DCS-7020SR-32C2#
Fixed Ports	16 × 1/10/25GbE (SFP/SFP+/SFP28), 2 × 40/100GbE (QSFP+/QSFP28)	32 × 100GbE QSFP28	32 × 10GbE SFP+ and 2 × 100GbE QSFP28
Breakout Capability	4x10G/25G breakout from 40G/100G	Yes (4x10/25/50/100G via breakout)	Yes, supports breakout
Redundant Power Supplies	Yes, hot-swappable	Yes, hot-swappable	Yes, hot-swappable
Hot-Swappable Fans	Yes, field-replaceable	Yes, field-replaceable	Yes, field-replaceable
Layer 3 Features	BGP, OSPF, VRF, IPv6	OSPF, BGP, IS-IS, PIM, VRF, IPv6	OSPF, BGP, VRF, PIM, IPv6
Management & Automation	ArubaOS-CX, REST API, Python Scripting	Cisco IOS XE, REST API	CloudVision, eAPI
Security Features	MACsec on select ports	TrustSec, MACsec	Advanced ACLs, MACsec
Form Factor	1U rack-mountable	1U rack-mountable	1U rack-mountable
Application Scenario	Campus core, aggregation/data center	Enterprise core, large campus/data center	Data center high-density 10/100GbE

Accessories

Category	Accessories
Included Accessories	- Power Supply Modules - Mounting Kit - Console Cable
Optional Accessories	- 1GBASE-T SFP Transceiver - 10GBASE-T SFP+ Transceiver - 4x10G/25G Breakout Cables

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Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

USA Branch

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

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK

References

[1] Aruba Networks. (2023). Aruba CX 8360 Switch Series Datasheet. Retrieved from https://www.hpe.com/psnow/doc/a50002121enw