

Aruba JL701A

Datasheet

Product Overview

- The Aruba CX 8360 Series positions itself as a high-performance switching solution for enterprises entering the era of mobile, cloud, and IoT.
- Designed for both campus core/aggregation and dynamic data centers, it suits next-gen IT teams, service providers, and distributed businesses.
- Supporting up to 2.4Tbps capacity, with multi-speed SFP and QSFP ports, it enables seamless connectivity at line-rate speeds for assorted networking demands.
- Breakout from 40/100G ports to multiple 10G/25G links gives added flexibility and investment protection during technology migrations.
- With robust MACsec security options on select ports, secure connections are possible across untrusted domains and mixed environments.
- CX 8360 is ideal for fast, simple upgrades, helping organizations future-proof networks while improving security, management, and scalability.

Product Highlights

- **Ultra-High Switching Performance:** Delivers 2.4Tbps of switching capacity and 1,145 Mpps forwarding for high-speed environments.
- **Advanced Monitoring and Analytics:** Aruba Network Analytics Engine provides real-time traffic visibility and proactive network health insights.
- **Enterprise-Grade Redundancy:** VSX redundancy, hot-swappable power supplies, and fans ensure high availability and reduce downtime risks.
- **Smart Programmability:** ArubaOS-CX supports REST API and Python for automated deployment and advanced network orchestration.

Detailed Features



JL701A

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Component	Specification
Total SFP/SFP+/SFP28 Ports	28 × 1GbE/10GbE/25GbE
MACsec SFP+/SFP28 Ports	4 × 10GbE/25GbE with MACsec
40GbE/100GbE QSFP+/QSFP28 Ports	4
Breakout Cable & Transceiver Support	1GBASE-T SFP, 10GBASE-T SFP+, 4x10G/25G breakout cables
Form Factor	1U rackmount



Cloud-Native Modular OS

ArubaOS-CX uses a robust, database-driven Linux modular architecture with OVSDDB, ensuring reliable operations and easier software upgrades in mission-critical deployments.

Comprehensive Automation & Integration

REST APIs and native Python scripting enable seamless automation and service integration for complex enterprise and cloud workflows, reducing manual interventions.

High-Speed Distributed Architecture

With up to 2.4Tbps switching and 1,145 Mpps forwarding, it efficiently manages bandwidth-heavy tasks now and in the future, supporting latency-sensitive modern applications.

Flexible Connectivity Options

Multiple base models offer various port combinations, including up to 48 × 1G/10G/25G/100G, allowing adaptable network scaling and diverse deployment scenarios.

Secure Connectivity with MACsec

Select ports provide robust MACsec encryption for 10GbE and 25GbE links, securing communication across open or multi-tenant networks without compromising performance.

Jumbo Frame Support

Supports up to 9K jumbo frames, enhancing performance for backup, disaster recovery, and storage-intensive environments with large data transfer needs.

Unsupported Transceiver Mode (UTM)

UTM lets you use non-certified 1G or 10G transceivers/cables for added flexibility; however, these are not covered under hardware warranty or support.

Advanced Traffic & Storm Protection

Per-port/VLAN loopback, customizable packet storm thresholds, and strict priority (SP)/Deficit Weighted Round Robin (DWRR) queuing provide strong reliability and QoS.

Technical Specifications

Product Specifications

Feature	Value
I/O Ports	28 ports of 1GbE/10GbE/25GbE (SFP/SFP+/SFP28), 4 ports of 10GbE/25GbE (SFP+/SFP28) with MACsec, 4 ports of 40GbE/100GbE (QSFP+/QSFP28)
Optional Transceivers	1GBASE-T SFP, 10GBASE-T SFP+ transceivers, 4x10G/25G breakout cables supported
Power Supplies	2 field-replaceable and hot-swappable power supplies
Fans	3 field-replaceable and hot-swappable fans
Management Ports	RJ-45 serial and 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	18.05 lb (8.19 kg) / 17.00 lb (7.71 kg estimated)
CPU	1.8 GHz 4-core 64-bit
Memory	16GB RAM, 32GB Flash/Storage
Packet Buffer	32MB
Switching Capacity	2.4Tbps
MAC Address Table Size	212,992
IPv4/IPv6 Host Table	145,780 each



Feature	Value
IPv4/IPv6 Unicast Routes	606,977 / 630,784
Maximum Ingress/Egress ACL Entries	IPv4 65,536, IPv6 16,384, MAC 65,536 / IPv4 8,192, IPv6 2,048, MAC 8,192
VLANs	4,094
IGMP Groups	7,000
IPv4/IPv6 Multicast Routes	7,000 each
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.)
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
Max Operating Altitude	Up to 10,000ft (3.048Km)
Max Non-Operating Altitude	Up to 15,000ft (4.6Km)

Product Comparison

Feature	JL701A	C1-C6816-X-LE	Arista DCS-7050CX3M-32S-F
Switching Capacity	2.4Tbps	6.4Tbps	6.4Tbps
Port Types	28 × 1/10/25GbE SFP/ SFP+/SFP28, 4 × 10/25GbE w/ MACsec, 4 × 40/100GbE QSFP+/QSFP28	16 × 100GbE QSFP28	32 × 100GbE QSFP28
MAC Address Table Size	212,992	128,000	288,000
Redundant Power	Yes	Yes	Yes
Fan Design	Field-replaceable, hot-swappable	Hot-swappable	Hot-swappable
Advanced Layer 3 Features	BGP, OSPF, VRF, IPv6	OSPF, BGP, VRF-lite, IPv6	BGP, OSPF, IS-IS, VRF



Feature	JL701A	C1-C6816-X-LE	Arista DCS-7050CX3M-32S-F
Management Interface	ArubaOS-CX, REST API, Python	CLI, SNMP, Netconf	CLI, SNMP, REST API, eAPI
Form Factor	1U	1U	1U
Security Features	MACsec on select ports	MACsec optional	MACsec on all ports
Application	Core/Aggregation, Data Center, Secure Edge	Data Center/High-density Core	Data Center, High-density Core

Accessories

Category	Accessories
Included Accessories	- AC Power Adapter - Rack Mount Kit - Quick Installation Guide
Optional Accessories	- SFP+/QSFP28 Transceivers - 10GBASE-T SFP+ module - 4x25G Breakout Cable



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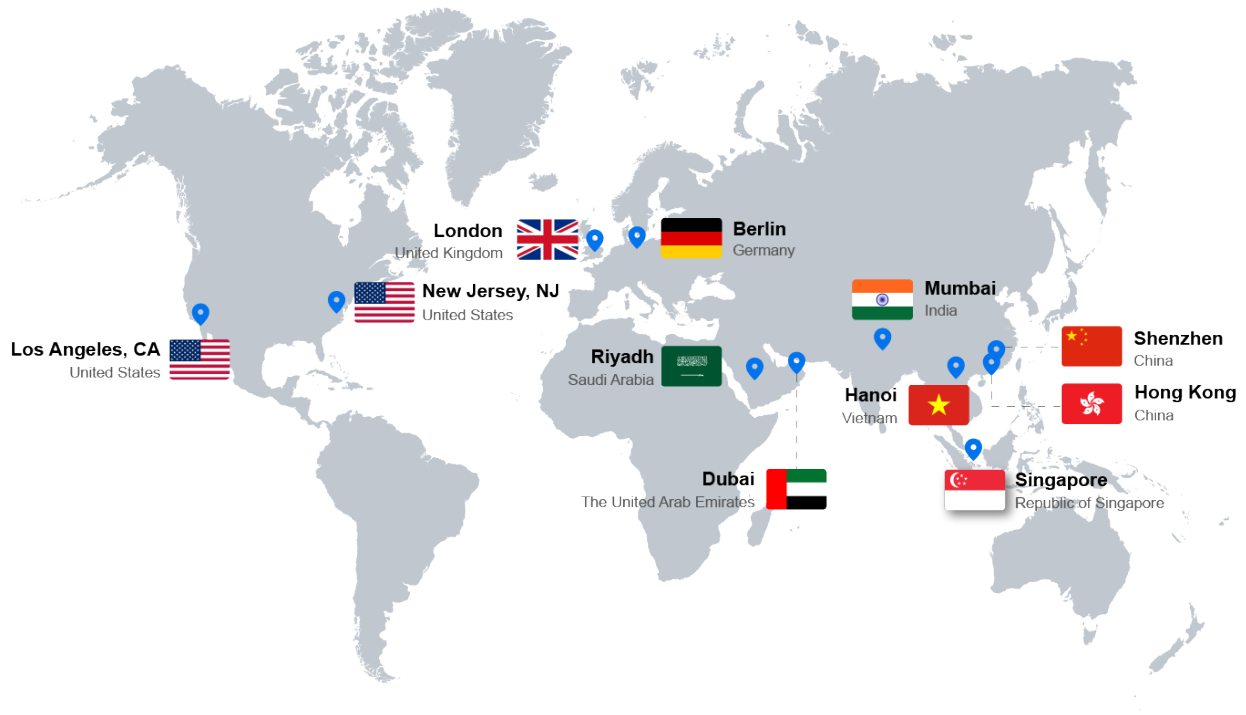
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References

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