

Aruba JL371A

Datasheet

Product Overview

- Aruba's CX 8400 is a flagship campus core and aggregation switch designed to address evolving enterprise network needs.
- It is ideal for large organizations, universities, service providers, and data centers seeking resilient high-performance switching.
- This switch delivers 19.2 Tbps switching capacity, supports line-rate 10GbE/25GbE/40GbE/100GbE, and features a compact 8-slot chassis.
- Aruba CX 8400 offers features like redundant management, power, and fabric, along with Aruba VSX for high availability.
- Deployment is simplified with the Aruba CX Mobile App, and automation is enabled through AOS-CX and REST APIs.
- The CX 8400 is perfect for core or aggregation, combining performance, operational efficiency, and robust scalability for mission-critical networks.

Product Highlights

- **Massive Switching Capacity:** Delivers up to 19.2 Tbps total capacity and 1.2 Tbps per slot, supporting bandwidth-intensive applications.
- **Carrier-Class High Availability:** Redundant management, power, and fabric modules ensure uninterrupted operation using Aruba VSX technology.
- **Automation and Programmability:** AOS-CX OS brings REST API and Python scripting for flexible automation and network integration.
- **Advanced Network Analytics:** Built-in Aruba Network Analytics Engine enables real-time monitoring, visibility, and automatic problem remediation.

Detailed Features



JL371A

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Component	Specification
Max 10GbE/25GbE Ports	256 (SFP/SFP+/SFP28)
Max 40GbE Ports	64 (QSFP+)
Max 40/100GbE Ports	48 (QSFP28 combination)
Line Module Slots	8



Extreme Performance Switching

The Aruba CX 8400 delivers a 19.2 Tbps switching capacity and line-rate connectivity across 10GbE, 25GbE, 40GbE, and 100GbE ports. This unmatched throughput supports the demands of modern data centers, ensures smooth traffic forwarding, and future-proofs your investment against bandwidth-intensive applications and growing IoT devices.

Resilient Carrier-Class Design

Featuring redundant fabric, management, power, and fan subsystems, the CX 8400 maximizes uptime and minimizes risk of service interruption. Aruba VSX technology further enhances business continuity and enables dual-system synchronization. This design provides a robust foundation for continuous operations and mission-critical applications.

Comprehensive Modular Architecture

Eight line module slots enable flexible expansion and port density optimization. Support for multiple module types empowers organizations to scale ports based on changing network needs. Additional dedicated slots for management and fabric modules separate traffic and control functions for performance stability.

Advanced Layer 2/3 Feature Set

Supports advanced protocols such as BGP, EVPN, OSPF, VRF, and native IPv6. This enables diverse routing, segmentation, and multi-tenant deployment strategies essential for network convergence and complex, hybrid infrastructure environments.

Integrated Automation & Programmability

The AOS-CX operating system enables network automation using built-in REST APIs and native Python scripting. Streamlined deployment and changes save operational time and reduce human error. Aruba NetEdit further supports automated configuration auditing and verification.

Intelligent Analytics & Deep Visibility

The integrated Aruba Network Analytics Engine collects line-rate telemetry, proactively identifies performance issues, and initiates automatic remediation. This ensures high network reliability and faster incident response without increasing administrative overhead.

Flexible Deployment Options

Supports both leaf/spine topology and core/aggregation roles. This flexibility makes the CX 8400 adaptable for use as a data center or large-scale campus core switch, providing investment protection through multipurpose capability.

Easy Mobile App Deployment

The Aruba CX Mobile App offers fast one-touch configuration and monitoring. This mobile-driven approach streamlines initial setup and ongoing maintenance, making enterprise-class networking accessible for IT teams of all sizes.

Technical Specifications

Product Specifications

Feature	Value
Max 10GbE (SFP/SFP+)/25G (SFP/SFP+/SFP28) Ports	256
Max 40GbE (QSFP+) Ports	64
Max 40/100GbE (QSFP28) Ports	48
Line Module Slots	8
Module VoQ (JL687A)	4GB
Module VoQ (JL363A/JL365A)	1.5GB
Module VoQ (JL366A)	3GB
Management Module Slots	2
Fabric Module Slots	3
Power Supply Slots	4



Feature	Value
Minimum Power Supplies Required	2 (fully loaded chassis or 8 Line Modules)
Fan Tray	Included with JL376A
Dimensions	17.4(w) x 26(d) x 13.8(h) in. (44.1 x 66.0 x 35.1 cm) (8U)
Weight (Empty)	76 lbs (34 kg)
Weight (JL376A)	164 lbs (74 kg)
Weight (Full Config.)	241 lbs (109 kg)
Mounting	EIA standard 19-inch rack, horizontal surface only
Switching Capacity	19.2Tbps
IPv4 Host Table	756,000
IPv6 Host Table	524,000
IPv4 Unicast Routes	1,011,712 (BGP RIB: 256,000)
IPv6 Unicast Routes	524,288
MAC Table Size	768,000
IGMP/MLD Groups	32,767
IPv4/IPv6 Multicast Routes	32,767
Operating Temp	32°F to 104°F (0°C to 40°C), 5-95% humidity
Non-Operating Temp	-40°F to 158°F (-40°C to 70°C), 5-95%
Max Operating Altitude	10,000ft (3.048 Km)
Max Non-Operating Altitude	30,000ft (9.144 Km)
Sound Power (LWAd)	7.3 Bel
Sound Pressure (LpAm) (Bystander)	55.6 dB
Frequency	47-63 Hz
AC Voltage	90–140/180–264 VAC
DC Voltage	Supported
Current	16 A
Power Output	2750 W
Safety Certifications	EN60950-1:2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013, EN62368-1:2014, IEC 60950-1:2005 Ed.2 +Am 1:2009+A2:2013, IEC62368-1 Ed.2, IEC60825:2007, UL60950-1, CSA 22.2 No 60950-1, UL62368-1 Ed.2



Feature	Value
Emissions	VCCI Class A, EN 55022 Class A, CISPR 22 Class A, IEC/EN 61000-3-2, IEC/EN 61000-3-3, ICES-003 Class A, AS/NZS CISPR 22 Class A, FCC (CFR 47, Part 15) Class A, GB9254, EN55032:2012 Class A, CISPR32:2012 Class A
Immunity	Directive 2014/35/EU, EN 55024:2010+ A1:2001 + A2:2003, ETSI EN 300 386 V1.3.3, EN 61000-4-2 (ESD), EN 61000-4-3 (Radiated), EN 61000-4-4 (EFT/Burst), EN 61000-4-5 (Surge), EN 61000-4-6 (Conducted), IEC 61000-4-8 (Power frequency magnetic field), EN 61000-4-11 (Voltage dips and interruptions), EN 61000-3-2, IEC 61000-3-2 (Harmonics), EN 61000-3-3, IEC 61000-3-3 (Flicker)
Management	SNMP

Product Comparison

Feature	JL371A	C9300-24P-A	Arista DCS-7170-64C-M#
Switching Capacity	19.2 Tbps	208 Gbps	12.8 Tbps
Max 10G/25G Ports	256	24 (1G/10G SFP+)	Up to 64 QSFP28 (100G)
Max 100G Ports	48	NA	64
Chassis Slots	8	Fixed	2U fixed
Redundant Power	Supported	Supported	Supported
Automation Support	AOS-CX, REST API, Python	Cisco DNA, REST API	CloudVision, eAPI, Python
Management App	Aruba CX Mobile App	Cisco Network Plug & Play	CloudVision GUI
IPv6 Support	Full Table: 524,288	Yes	Yes
Primary Use Case	Campus core, data center aggregation	Branch/core access	High-density data center/aggregation



Accessories

Category	Accessories
Included Accessories	- 1 Fan Tray - 6 Fans Bundle - Mounting Hardware
Optional Accessories	- SFP+ Transceivers - Additional Line Modules - Extra Power Supplies



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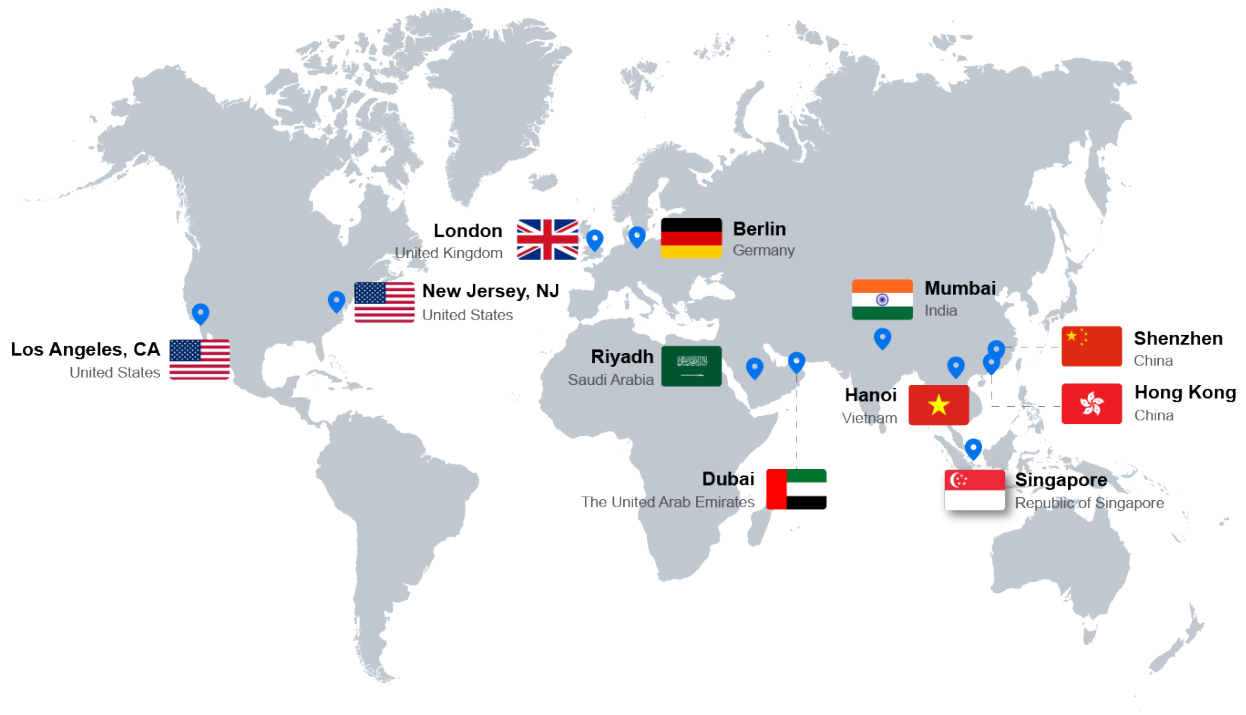
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References

[1] Aruba. (2023). Aruba CX 8400 Series Switches Datasheet. Retrieved from <https://andovercrg.com/datasheets/aruba-CX-8400-series-switches.pdf>