Aruba JL719C

Datasheet

Product Overview

- Aruba's CX 8360 v2 Series is an advanced switch platform, delivering high-speed and secure connectivity for modern IT networks.

- Designed for medium to large campuses, enterprises, and data centers, it serves core, aggregation, and dynamic virtual environments.

- Core hardware supports up to 4.8 Tbps switching capacity, with flexible 1/2.5/5/10/25/40/50/100GbE interface support for future-ready performance.

- Breakout options and low-density MACsec ports set this series apart, enabling flexible secure link aggregation.

- Integrated automation, analytics, and VSX redundancy provide ease of deployment, detailed visibility, and always-on reliability.

- Ideal for evolving cloud, mobile, and IoT use cases, the 8360 v2 delivers resilient, scalable, and secure infrastructure investment.

Product Highlights

- **Ultra-High Performance:** Delivers 4.8Tbps throughput, ensuring exceptional bandwidth for demanding campus or data center needs.

- **Advanced Analytics Engine:** Integrated Network Analytics Engine enables real-time monitoring and network visibility at scale.

- **Industry-Leading Redundancy:** Dual redundant, hot-swappable power and VSX technology boost high availability and resiliency.

- **Intelligent Programmability:** Supports automation with REST APIs and Python scripting for streamlined management and orchestration.

Detailed Features

JL719C

Component	Specification
Switch Fabric Speed	4.8 Tbps
Front Panel Ports	44 × 1GbE/10GbE/25GbE (SFP/SFP+/SFP28)
MACsec Enabled Ports	4 × 10GbE/25GbE (SFP+/SFP28), 2 × 40GbE/100GbE (QSFP+/QSFP28)
High Speed Uplinks	4 × 40GbE/100GbE (QSFP+/QSFP28)

Modular, Cloud-Native Architecture

The CX 8360 v2 uses Aruba's AOS-CX operating system, designed as a modular and cloud-native platform. This simplifies data center network management through flexible automation matched to any IT operation model while supporting modern microservices integration across services.

Intelligent Analytics for Proactive Operations

Each switch features an embedded analytics engine that monitors real-time traffic and system state. This analytics capability gives proactive insights, automates troubleshooting, accelerates problem resolution, and helps identify and address network anomalies before they impact operations.

Resilient and High-Availability Design

All software functions operate as independent microservices using a state database. This structure localizes any process failure and ensures critical operations remain unaffected. Continuous state synchronization between redundancy planes ensures rapid recovery and minimal disruption.

VSX Advanced High Availability

HPE Aruba's advanced Virtual Switching Extension (VSX) keeps network operations active during software or hardware failures. VSX leverages synchronized dual control planes and inter-chassis links to ensure seamless failover, supporting always-on infrastructure.

RESTful APIs and Python Scripting

Full REST API and Python scripting support allow fine-grained, programmatic control. This enables integration with advanced workflow automation platforms for custom deployment, monitoring, and scaling tasks tailored to specific requirements.

Network Analytics for System-Wide Insight

The included Network Analytics Engine (NAE) collects operational and configuration data in a time series database. Users can analyze trends, detect performance issues, and predict needs, minimizing downtime and optimizing future network investment.

Service-Optimized Microservices Architecture

All system processes communicate using the state database, not directly. If a microservice experiences an issue, impact stays contained. This enables superior network fault tolerance and consistent high availability, critical for enterprise and data center operations.

End-to-End Software-Defined Automation

Supported by HPE Aruba Fabric Composer, the switch enables software-defined orchestration for fast leaf-spine provisioning and simplified, automated daily operations. This lowers operational complexity and delivers scalable, agile data center workflow automation.

Technical Specifications

Product Specifications

Feature	Value
Differentiator	Base unit spares (fans, PS not included)
Power consumption (Max Power)	725W
Power consumption (Idle Power)	230W
Heat dissipation	1,450 BTU/hr
Ports	44-port of 1GbE/10GbE/25GbE (SFP/SFP+/SFP28)
MACsec Ports	4-port of 10GbE/25GbE (SFP+/SFP28) with MACsec, 2-port of 40GbE/100GbE (QSFP+/QSFP28) with MACsec
40/100GbE Ports	4-port of 40GbE/100GbE (QSFP+/QSFP28)
Switch fabric speed	4.8 Tbps
Routing capabilities	Static (IPv4/IPv6): RIPv2; RIPng; OSPF; OSPFv3; BGP-4; MP-BGP with IPv6; PBR; ECMP; GRE, MPLS
CPU	1.8 GHz 4-core 64-bit

Feature	Value
RAM	16 GB
Flash/Storage	32 GB
Packet Buffer	32 MB
Power supply	2 field-replaceable and hot-swappable power supplies depends on the model
Management features	RJ45 serial and USB-C console; RJ45 Ethernet port; USB-Type A
Detailed product description	High performance enterprise campus and data center switch.
Weight	From 7.71 kg to 10.73 kg depends on the model (From 17.00 lb to 23.65 lb depends on the model)
Dimensions	From 4.40 x 4.42 x 40.6 cm to 4.40 x 4.42 x 55.9 cm (From 1.73 x 17.4 x 16.0 in to 1.73 x 17.4 x 22.0 in)

Product Comparison

Feature	JL719C	C1-WS3650-48UZ/K9	C1-WS3850-48P/K9
Switching Fabric Capacity	4.8 Tbps	176 Gbps	176 Gbps
Max Forwarding Rate	2,678 Mpps	130 Mpps	130 Mpps
Fixed Ports	44 × 1/10/25GbE SFP/ SFP+/SFP28	48 × 1G/2.5G/5G/10G	48 × 10/100/1000Base-T
MACsec Support	Yes, 10/25/40/100GbE with MACsec	Yes, 10/25/40/100GbE with MACsec	Not specified
40/100GbE Uplinks	Up to 6 QSFP+/QSFP28	2 × 40G QSFP+	2 × 40G QSFP+
Redundant Power Supply	2 hot-swappable units	Supported	Supported
Layer 3 Capabilities	BGP, OSPF, VRF, IPv6, MPLS	OSPF, BGP, VRF, IPv6	OSPF, BGP, VRF, IPv6
Automation & Programmability	REST API, Python, NAE	Not specified	Not specified
Management Interface	RJ45 serial/USB-C, RJ45 Ethernet	RJ45 Console	RJ45 Console

Feature	JL719C	C1-WS3650-48UZ/K9	C1-WS3850-48P/K9
Application Scenario	Campus core, aggregation, DC ToR/EoR	Unified access switch	Access, distribution layer

Accessories

Category	Accessories
Included Accessories	- Power Supply - Rack Mount Kit - Console Cable
Optional Accessories	- SFP/SFP28 Transceivers - QSFP+/QSFP28 Modules - Spare Fans

Support & Warranty

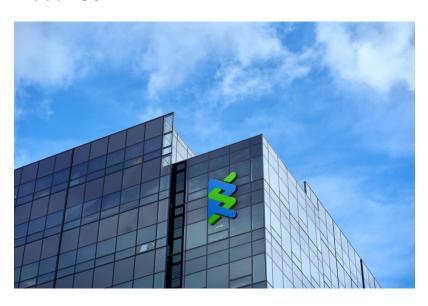|					
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References

[1] HPE Aruba Networking. (2023). CX 8360 v2 Switch Series Datasheet. Retrieved from https://buy.hpe.com/pl/en/networking/switches/fixed-port-l3-managed-ethernet-switches/networking-cx-switch-series/hpe-aruba-networking-cx-8360%E2%80%9148y6c-v2-48p-25g-sfp-sfp-sfp28-4-sec-6p-100g-qsfp-qsfp28-2-sec-switch/p/jl719c