

HPE JL687A

Datasheet



Product Overview

- HPE Aruba Networking CX 8400 is a next-generation campus core and aggregation platform built for always-on enterprise networks.
- Designed for large campuses and data centers, it targets enterprises, service providers, and organizations modernizing for cloud and IoT.
- The 8-slot chassis delivers up to 19.2 Tbps switching capacity with line-rate 10GbE/25GbE/40GbE/100GbE and carrier-grade resiliency.
- Redundant fabric, management, power, and fans combine with VSX to provide non-stop forwarding and rapid failover.
- Automation-ready AOS-CX and rich telemetry simplify operations for IT teams handling rapid growth and critical applications.
- Ideal for high-density core and leaf-spine designs, it supports secure, scalable connectivity for mobile, cloud, and IoT workloads.

Product Highlights

- **High-Density Terabit Performance:** Delivers up to 19.2 Tbps switching capacity in an 8U chassis, providing line-rate 10GbE/25GbE/40GbE/100GbE for demanding campus core and data center aggregation networks.
- **Carrier-Class Resiliency:** HPE Aruba Networking VSX, plus redundant management, power, and fabric modules, ensures high availability and rapid recovery for mission-critical services.
- **Programmable Cloud-Native OS:** HPE Aruba Networking CX Operating System offers built-in REST APIs, Python scripting, and advanced Layer 2/3 features including BGP, EVPN, OSPF, VRF, and IPv6 for flexible designs.
- **Operational Visibility and Automation:** Aruba Analytics Engine, dynamic VXLAN with BGP-EVPN, CX Mobile App one-touch deployment, and Switch Multi-Edit enable deep segmentation and faster troubleshooting.

Detailed Features



JL687A

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Component	Specification
Product Type	Expansion module for HPE Aruba CX 8400
Port Density	32 × 25Gb SFP28 wired interfaces
Throughput per Port	Up to 25 Gbps over 1000Base-X/10GBase-X/25GBase-X
Form Factor	Plug-in module for CX 8400 chassis
Typical Use Case	High-density 10/25GbE server or uplink expansion in campus or data center



Modern AOS-CX Architecture

The HPE Aruba Networking CX 8400 Switch Series is built on AOS-CX, a database-driven network operating system that centralizes all state information. By decoupling software processes and synchronizing them through a stateful database, it improves resiliency, reduces failure domains, and enables precise control over configuration and runtime behavior in complex enterprise networks.

Built-In Time Series Database

AOS-CX integrates a time series database that continuously records configuration and operational state. Engineers can query historical data using scripts to trace incidents, correlate changes with performance shifts, and analyze long-term trends. This design simplifies root-cause analysis and helps predict capacity, scale, and security issues before they impact production services.

Comprehensive Native Feature Set

Every CX switch ships with the full HPE Aruba Networking CX Operating System feature set enabled, without additional licensing. Native capabilities include Analytics Engine, dynamic segmentation, switch stacking, high availability, QoS, Layer 2 switching, Layer 3 routing, IP multicast, and security services. This reduces hidden costs and ensures that newly deployed devices are immediately ready for enterprise use.

CX Advanced Feature Pack Ecosystem

For organizations needing extended services, the optional HPE Aruba Networking CX Advanced Feature Pack unlocks a container-based infrastructure. It can host HPE-certified applications directly on the switch for specialized telemetry, security, or automation tasks. This approach brings compute closer to the data plane, improving responsiveness and enabling more flexible IT service delivery.

Deep Network Visibility and Analytics

HPE Aruba Networking Analytics Engine (NAE) continuously inspects events that affect network health. Using Python agents, CLI-based agents, and REST APIs, it gathers detailed telemetry, correlates anomalies, and triggers automated responses. The TSDB-backed design supports fast troubleshooting, trend analysis, and accurate capacity planning for growing enterprise and cloud environments.

Cloud and On-Premises Central Management

HPE Aruba Networking Central provides unified management for wired, WLAN, SD-WAN, and public cloud infrastructure. It streamlines day-zero to day-two operations through guided workflows for configuration, onboarding, monitoring, troubleshooting, and reporting. Central Advanced licenses add AIOps, advanced security, and integrated fabric and policy automation at global scale.

Integrated Fabric and Policy Automation

With Aruba Central Advanced, features such as NetConductor Fabric Wizard and Policy Manager enable dynamic segmentation and distributed enforcement across large networks. They also activate the CX Advanced Feature Pack without separate purchase, reducing subscription complexity. This unified model simplifies fabric provisioning, policy consistency, and lifecycle management across campuses and data centers.

Switch Multi-Edit for At-Scale Changes

HPE Aruba Networking Switch Multi-Edit allows IT teams to orchestrate network-wide configuration changes without coding. It offers centralized search, batch editing, conformance validation, deployment, and audit functions. Combined with NAE integration, it provides health and topology visibility while ensuring that large-scale updates remain compliant with corporate design and security standards.

Technical Specifications

Product Specifications

Feature	Value
Product Model	JL687A Specification
Networking Category	Networking
Type	Expansion module
Form Factor	Plug-in module
Connectivity Technology	Wired
Data Link Protocol	10 Gigabit Ethernet



Feature	Value
Data Link Protocol (2)	Ethernet
Data Link Protocol (3)	Fast Ethernet
Data Link Protocol (4)	Gigabit Ethernet
Data Transfer Rate	25 Gbps
Cabling Type	Ethernet 1000Base-X
Cabling Type (2)	Ethernet 10GBase-X
Cabling Type (3)	Ethernet 25GBase-X
Ports Category	Ports
Port Quantity (Qty)	32
Port Type	25 Gigabit SFP 28
Interface Provided Category	Interface Provided
Interfaces	32 x 10Gb Ethernet – SFP28
Dimensions & Weight Category	Dimensions & Weight
Width	11.9 inch
Depth	16.6 inch
Height	1.7 inch

Product Comparison

Feature	JL687A	NVIDIA Mellanox MSN3700-VS2R	C1-N9K-C92304QC
Product Type	Expansion module for CX 8400 chassis	1RU fixed-form data center switch	1RU Nexus 9000 series data center switch
Fixed / Expansion Ports	32 x 25Gb SFP28 (10/25GbE)	32 x 100GbE QSFP28	48 x 10/25GbE SFP+ and 6 x 40/100GbE QSFP28 (typical)
Switching Role	Line card for modular core/aggregation	Top-of-rack / spine-leaf switch	Leaf/spine or aggregation switch
Max Data Rate per Port	25 Gbps per interface	100 Gbps per interface	Up to 100 Gbps on uplink ports
Form Factor	Plug-in module	Fixed 19-inch rack switch	Fixed 19-inch rack switch
Deployment Scenario	Campus and data center CX 8400 chassis expansion	High-performance cloud and storage fabrics	Large enterprise and cloud data centers



Feature	JL687A	NVIDIA Mellanox MSN3700-VS2R	C1-N9K-C92304QC
Primary Advantage	High-density 25GbE expansion inside resilient chassis	Ultra-high 100GbE throughput in compact 1RU	Versatile port mix for flexible 10/25/40/100GbE designs

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Line card filler / ejector mechanisms (chassis-dependent) - Basic documentation and safety information - Bezel or slot labels for CX 8400 chassis integration
Optional Accessories	<ul style="list-style-type: none"> - Compatible 25G SFP28 transceivers and DAC/AOC cables - Additional CX 8400 fabric and management modules for redundancy - Aruba Central and CX Advanced Feature Pack licenses



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References

[1] Hewlett Packard Enterprise. (2023). HPE Aruba Networking CX 8400 Switch Series Technical Specifications for JL687A. Retrieved from <https://www.hpe.com/psnow/doc/a00021508enw>