

Aruba JL363A

Datasheet



Product Overview

- Aruba CX 8400 Series is a next-generation modular switching platform engineered as the high-performance core for modern digital enterprises.
- Designed for large campus cores, aggregation layers, and mission-critical data centers that demand non-stop availability and scale.
- An 8-slot compact chassis delivers up to 19.2 Tbps switching capacity with line-rate 10GbE, 25GbE, 40GbE, and 100GbE interfaces for dense aggregation.
- Carrier-class high availability features include redundant fabric, management, power, and fans, plus Aruba VSX for always-on services.
- AOS-CX enables automation, programmability, and deep visibility to simplify operations across mobile, cloud, and IoT-driven networks.
- Ideal for enterprises standardizing on a single core for campus and data center, the CX 8400 ensures scalable, secure, and predictable performance.

Product Highlights

- **Terabit-Scale Performance:** Delivers up to 19.2 Tbps switching capacity (1.2 Tbps per slot) with line-rate 10/25/40/100GbE, meeting high-density campus and data center demands.
- **Carrier-Class Resiliency:** VSX, redundant management, power, and switching fabric provide non-stop forwarding and fast recovery for mission-critical services.
- **Cloud-Native OS and Automation:** AOS-CX with REST APIs, Python scripting, Analytics Engine, and Switch Multi-Edit enables automated deployment, monitoring, and verification.
- **Flexible Segmentation and Form Factor:** Dynamic VXLAN with BGP-EVPN plus a compact 8U chassis support scalable segmentation for modern campus and data center designs.

Detailed Features



JL363A

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Component	Specification
Type	HPE Aruba MACsec Advanced Module
Form Factor	Plug-in module
Data Link Protocol	10 Gigabit Ethernet, Ethernet, Fast Ethernet, Gigabit Ethernet
Data Transfer Rate	10 GBps
Ports	32 x 10Gb Ethernet SFP/SFP+ with MACsec support



Modern Cloud-Native OS

AOS-CX is a database-driven, cloud-native operating system that separates control, data, and management planes. It maintains a real-time state database, enabling faster convergence, deterministic behavior, and simplified upgrades compared with legacy monolithic switch operating systems.

Built-In Time Series Intelligence

An embedded time series database continuously records configuration, counters, and events directly on the switch. Engineers can correlate historical network state with incidents, run advanced queries, and perform trend analysis, improving root-cause identification and capacity planning.

Powerful Network Analytics Engine

Aruba Network Analytics Engine (NAE) provides on-box monitoring and diagnostics using Python-based agents. These agents inspect live telemetry, detect anomalies, and trigger automated actions or alerts, reducing mean time to detect and repair complex performance or stability issues.

Comprehensive Enterprise Feature Set

Every CX switch includes the full AOS-CX feature set without additional licenses, covering Layer 2 switching, Layer 3 routing, IPv6, IP multicast, QoS, security, high availability, stacking, and Multi-Edit support. This simplifies procurement and ensures consistent capabilities across deployments.

Dynamic Segmentation and Security

AOS-CX supports dynamic segmentation with role-based access control, MACsec capabilities, and advanced policy enforcement. Traffic can be segmented end to end without redesigning VLANs, helping protect critical services while keeping the network design simple and scalable.

High Availability at Scale

The platform delivers system-level resiliency through redundant management modules, fabrics, fans, and power supplies, combined with hitless failover features. These capabilities support demanding campus cores and data centers that require continuous uptime and predictable recovery behavior.

Operational Simplicity and Automation

Native REST APIs, Python scripting, and Aruba Switch Multi-Edit enable programmatic configuration, validation, and rollback. Administrators can standardize templates, push bulk changes safely, and integrate the network with external orchestration tools to streamline day-to-day operations.

Extensible Advanced Feature Pack

The optional Aruba CX Advanced Feature Pack unlocks a container-based application environment on the switch. IT teams can run certified services, custom monitoring tools, or third-party applications directly on the platform, building flexible and reliable network services without extra hardware.

Technical Specifications

Product Specifications

Feature	Value
Product Name	JL363A Specification
Networking Category	Networking
Type	HPE Aruba MACsec Advanced Module
Form Factor	Plug-in module
Connectivity Technology	Wired
Data Link Protocol	10 Gigabit Ethernet, Ethernet, Fast Ethernet, Gigabit Ethernet
Data Transfer Rate	10 GBps
Features	MACsec support
Ports Category	Ports
Port Quantity	32
Port Type	10 Gigabit SFP+ / SFP (mini-GBIC)



Feature	Value
Interface Provided Category	Interface Provided
Interfaces	32 x 10Gb Ethernet - SFP/SFP+

Product Comparison

Feature	JL363A	JL665A	JL666A
Product Type	HPE Aruba MACsec Advanced Module	Aruba CX switch (fixed-configuration)	Aruba CX switch (fixed-configuration)
Form Factor	Plug-in module for CX 8400	1U rack-mount switch	1U rack-mount switch
Fixed Ports	32 x 10Gb Ethernet SFP/SFP+ (via line card interfaces)	Typically 48 x 1G/10G (model-dependent)	Typically 48 x multi-gig/10G (model-dependent)
Data Link Protocols	10 Gigabit Ethernet, Ethernet, Fast Ethernet, Gigabit Ethernet	Gigabit/10 Gigabit Ethernet	Gigabit/10 Gigabit Ethernet, possibly multi-gig
Security Features	MACsec support on all 32 ports	Access control lists, 802.1X, DHCP snooping	Advanced security, policy-based segmentation
Switching Capacity Impact	Adds MACsec encryption capability without reducing 10Gbps per port rate	High switching capacity for campus access/aggregation	Higher switching capacity for advanced access/aggregation
Target Deployment	CX 8400 campus core or data center requiring MACsec on 10G links	Enterprise access or aggregation for Aruba CX deployments	Higher-performance access/aggregation with multi-gig and advanced features
Ideal Use Case	Encrypting sensitive 10G uplinks, inter-building links, and data center connections	Standard wired access for users and devices	High-density, high-speed access for Wi-Fi 6/6E and demanding edge devices

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - MACsec module insertion guide - Basic documentation/quick start sheet
Optional Accessories	<ul style="list-style-type: none"> - SFP/SFP+ optical transceivers - Compatible 10GbE DAC/AOC cables - Aruba CX 8400 chassis and supported line cards



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References

[1] Hewlett Packard Enterprise. (2017). JL363A HPE Aruba MACsec Advanced Module Specification. Retrieved from <https://www.hpe.com/psnow/doc/a00021508enw>