

Aruba JL662A

Datasheet



Product Overview

- The HPE Aruba Networking CX 6300 Series, including model JL662A, is a modern stackable switch line for campus and data center access.
- Designed for enterprise edge, aggregation, and top-of-rack, it serves mid-sized branches, campus cores, and cloud-connected data centers.
- It delivers non-blocking performance with a Gen7 ASIC, high PoE power, and multi-gigabit HPE Smart Rate ports for Wi-Fi 7 and dense IoT.
- Cloud-native Aruba OS-CX, real-time analytics, and VSF stacking up to 10 units set it apart in visibility and resiliency.
- Centralized management, automation tools, and flexible deployment models reduce configuration time and simplify ongoing operations.
- JL662A helps IT build an AI-ready wired edge, supporting high-speed wireless, smart buildings, and critical business applications with confidence.

Product Highlights

- **Advanced Layer 3 and Security:** Full Layer 3 feature set with BGP, OSPF, VRF, EVPN, VXLAN plus MACsec 256, PTP, AVB, and strong QoS for secure, deterministic traffic.
- **High-Performance Architecture:** Gen7 ASIC delivers up to 1760 Gbps switching, 1310 Mpps throughput, and 200400 Gbps stacking bandwidth for demanding enterprise workloads.
- **Flexible Access Options:** Choice of 24/48-port 1/2.5/5/10GbE Smart Rate and 1GbE fiber, supporting up to 90W 802.3bt PoE per port for Wi-Fi, cameras, and IoT.
- **Unified Cloud Management:** Managed through HPE Aruba Networking Central with dynamic segmentation for consistent user and IoT policy across wired, wireless, and WAN.

Detailed Features



JL662A

[Quote](#) | [Help](#)

Component	Specification
Downlink Ports	24 x 10/100/1000Base-T PoE+ (up to 30W per port)
Uplink Ports	4 x 1G/10G/25G/50G SFP ports
PoE Standards	IEEE 802.3af, IEEE 802.3at
Management Interfaces	1 x USB-C console, 1 x USB-A host, 1 x OOBM port
Switching Capacity	448 Gbps



AI-Optimized Architecture

Built on a fully distributed Gen7 ASIC architecture, the CX 6300 series delivers wire-speed forwarding with low latency and deep packet buffering. This design sustains AI inference traffic, Wi-Fi 7 backhaul, and dense IoT access without performance drops, while intelligent power usage helps keep energy consumption and operating costs under control in large-scale deployments.

Scalable High-Speed Stacking

HPE Aruba Networking Virtual Switching Framework (VSF) lets you build a single logical switch from multiple CX 6300 units. Using high-performance front-plane links, each switch provides 200 to 400 Gbps of stacking throughput, so uplinks and inter-switch traffic remain uncongested as you scale out access or aggregation layers across campus buildings or large branches.

High Availability with VSX

For mission-critical environments, Virtual Switching Extension (VSX) combines two CX 6300 switches into an active-active pair. Each chassis maintains an independent control plane while synchronizing key state through an inter-switch link. This architecture avoids single points of failure, simplifies maintenance windows, and supports nonstop forwarding for converged data, voice, and video services.

Multi-Gig and High-Power PoE

HPE Smart Rate multi-gigabit Ethernet enables 1/2.5/5/10GbE per port, allowing access speeds to grow alongside Wi-Fi and endpoint needs without recabling. Per-port PoE options include Class 4 (30W), Class 6 (60W), and Class 8 (90W), with total PoE budgets of up to 2880W. This supports high-density APs, IP cameras, and building IoT, all powered directly from the switch.

Energy Efficiency and Scheduling

CX 6300 and CX 6300L models support hibernation modes that let IT schedule downtime or low-power states during off-hours. This feature is especially valuable in office, education, or retail scenarios where equipment does not need full performance around the clock, helping organizations reduce power usage and meet sustainability and cost-saving targets.

Embedded Analytics and Telemetry

The CX Network Analytics Engine (NAE) uses an onboard time-series database to store configuration and operational data for real-time and historical analysis. Telemetry-driven insights support rapid root-cause identification and automated actions, such as quarantining problematic endpoints. This embedded analytics model reduces reliance on external probes and speeds troubleshooting for network and application teams.

Automation and Policy Consistency

HPE Aruba Networking Switch Multi-Edit Software introduces bulk search, edit, validation, and deployment capabilities. It helps enforce configuration standards and policy conformance after changes, across many switches at once. When combined with colorless ports, local user roles, and local MAC authentication, it significantly cuts manual work for moves, adds, and changes in distributed environments.

End-to-End Security and Segmentation

Integrated with HPE Aruba Networking Central, CX 6300 enables dynamic segmentation that automatically assigns roles and policies based on user, device, and application identity. Features like automated profiling, role-based access control, Layer 7 firewalling, and VXLAN-to-VRF mapping allow secure multi-tenancy and granular control. This protects enterprise, campus, and data center networks while keeping access simple for users and IoT.

Technical Specifications

Product Specifications

Feature	Value
Ports (Electrical)	24 x 10/100/1000 BaseT PoE+ ports supporting up to 30W per port
Ports (Optical Uplink)	4 x 1G/10G/25G/50G [4] SFP ports
PoE Standards Supported	IEEE 802.3af, 802.3at
Console Interface	1 x USB-C console port
USB Host Interface	1 x USB Type-A host port
OOB Management Port	1 x OOBM port
Switching Capacity	448 Gbps



Feature	Value
PoE+ Per-Port Power	30 W (IEEE 802.3at Class 4)
PoE Standard IEEE 802.3af	15.4 W per port (typical maximum)
PoE Standard IEEE 802.3at	30 W per port (typical maximum)
USB-C Console Type	USB-C serial console interface for local management
USB Type-A Host Usage	Used for file management, firmware, and configuration storage
OoB Port Purpose	Dedicated out-of-band Ethernet port for management traffic isolation
SFP Port Speed Options	Supports 1G, 10G, 25G, and 50G operation (model dependent)
Switching Fabric Type	Non-blocking switching fabric for line-rate forwarding
Forwarding Method	Store-and-forward architecture with hardware-based switching
MAC Table (Implied)	Supports dynamic MAC learning for all active ports
Management Access Methods	Console via USB-C, OoB Ethernet management, USB file operations
Traffic Types Supported	Data, voice, video, and PoE-powered endpoint traffic
Deployment Role	Suitable for access, aggregation, and ToR switching in enterprise networks

Product Comparison

Feature	JL662A	R8Q67A	JL706A
Fixed Downlink Ports	24 x 10/100/1000Base-T PoE+	48 x multi-Gig/1G access ports (model dependent)	48 x 10/100/1000Base-T PoE+
Uplink Ports	4 x 1G/10G/25G/50G SFP	4 x 1G/10G/25G SFP28 (typical)	4 x 1G/10G SFP+
Switching Capacity	448 Gbps	Higher system capacity for larger campus/core	Up to ~880 Gbps (series dependent)
PoE Capability	PoE+ up to 30W per port (802.3af/at)	High PoE budget with 802.3bt on selected models	PoE+/UPoE options, higher total budget
Stacking/Resiliency	VSF/VSX supported on CX 6300 series	Advanced stacking for higher scale	VSF stacking on selected Aruba models
Target Deployment	Access/aggregation for mid-size campus and ToR	Larger campus, aggregation, and high-density edge	Enterprise access with higher port density



Feature	JL662A	R8Q67A	JL706A
Management Platform	HPE Aruba Networking Central, NAE, Multi-Edit	HPE Aruba Networking Central	HPE Aruba Networking Central
Ideal Use Case	AI-ready edge with moderate PoE and flexible uplinks	High-density access with multi-gig and high PoE	Large PoE access layers and campus wiring closets

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - AC Power Cord - Rack Mount Kit (brackets and screws) - Quick Installation Guide
Optional Accessories	<ul style="list-style-type: none"> - SFP/SFP+ Transceiver Modules - Direct Attach Copper (DAC) Cables - External RPS or APS (model-dependent)



Support & Warranty



24/7 Online Service



3-Year Premium Warranty



Professional Technical Support



100% Low Price Guarantee



100% Quality Assurance



100% Money Back Guarantee

About Us



Router-switch.com, headquartered in Hong Kong since 2002, has been a trusted global leader in ICT distribution for 20+ years. We provide cutting-edge networking, cybersecurity, data center, and AI solutions to meet evolving business needs. Our wide range includes products from top brands like Cisco, Arista, Aruba, Fortinet, Mellanox, and Huawei, ensuring access to the latest technology and innovations.

21,500+

global customers

600,000+

end-users

200+

countries & regions

20+

years experience

500+

global vendors

100,000+

SKUs available

700+

local sales experts

50-98%

off global list prices

Contact Us

Email

Sales Inquiries: sales@router-switch.com

Expert Technical Support: ccie-support@router-switch.com

Cooperative Partnerships: partner@router-switch.com

Follow Us

Facebook: [@Routerswitchdotcom](https://www.facebook.com/Routerswitchdotcom)

LinkedIn: [Router-switch.com](https://www.linkedin.com/company/router-switch.com)

X: [@routerswitchcom](https://twitter.com/routerswitchcom)

Instagram: [@routerswitchdotcom](https://www.instagram.com/routerswitchdotcom)

Phone

USA: +1-626-655-0998

Hong Kong: +852-25925389 / +852-25925411



Global Footprint

Global Warehouses & Service Centers Across Continents.



Global Branches

Hong Kong Branch

Rm 605, 6/F, Fa Yuen Comm Bldg, 75-77 Fa Yuen St, Mongkok, Kowloon, Hong Kong, China

USA Branch

35 E Horizon Ridge Pkwy, Ste 110 #30131, Henderson, NV 89002, USA

Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK



References

[1] HPE Aruba Networking. (2024). HPE Aruba Networking CX 6300 Switch Series Datasheet (PSN1012183879BEEN). Retrieved from <https://www.hpe.com/psnow/doc/PSN1012183879BEEN>