

# Aruba JL625A

## Datasheet



## Product Overview

- The HPE Aruba Networking CX 8325 Switch Series is a modern, stackable switch line designed for next-generation enterprise and data center networks.
- These switches are ideal for core, aggregation, Top of Rack (ToR), End of Row (EoR), and advanced data center deployments—meeting the needs of enterprises, cloud service providers, and system integrators.
- Offering 6.4 Tbps switching capacity, line-rate Gigabit Ethernet interfaces (1/10/25/40/100G), and robust hardware for applications demanding speed and stability.
- Standout features include HPE Aruba Networking CX Operating System automation, advanced Layer 2/3, and deep segmentation via dynamic VXLAN with BGP-EVPN.
- Automation and analytics are enabled with REST APIs, Python scripting, and the embedded Network Analytics Engine for real-time network visibility and troubleshooting.
- Efficient for high-density deployments, the CX 8325 delivers scalable, programmable networking to support growing compute, storage, and hybrid cloud scenarios.

## Product Highlights

- **High-Speed Performance:** Delivers 6.4 Tbps switching capacity with 2,000 Mpps for demanding campus and data center environments.
- **Industry-Leading Availability:** VSX redundancy, hot-swappable fans, and dual power supplies guarantee high uptime and reliability.
- **Advanced Network Features:** Supports BGP, OSPF, VRF-Lite, IPv6, and dynamic VXLAN with BGP-EVPN for deep network segmentation.
- **Programmable Automation:** Built-in REST APIs, Python scripting, and tools like NetEdit simplify configuration, management, and troubleshooting.

## Detailed Features



JL625A

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Component	Specification
Switching Capacity	6.4 Tbps
Forwarding Rate	2,000 Mpps
25G SFP28 Ports	48
100G QSFP28 Ports	8
Form Factor	1RU rackmount

### High-Performance Switching

The CX 8325 offers 6.4 Tbps bidirectional switching and 2,000 Mpps forwarding rate, handling high-traffic network cores and aggregation layers. This makes it suitable for data-intensive applications and high-demand environments across enterprise campuses and data centers, ensuring future-ready scalability.

### Resilient Redundancy

Industry-leading VSX redundancy and support for redundant, hot-swappable power supplies and fans provide robust fault tolerance. This ensures uninterrupted network operation even in the event of hardware failures, increasing overall network stability for critical business infrastructures.

### Data Center-Optimized Design

Designed for core, aggregation, ToR, or EoR deployment, the CX 8325 fits both traditional and modern data center designs. Its compact 1U form factor and flexible port options (1/10/25/40/100GbE) support a wide range of workloads and physical layouts without compromising performance.

### Intelligent Automation

The HPE Aruba Networking CX Operating System provides advanced automation and programmability via REST APIs and Python scripts. This enables IT teams to automate routine tasks and respond to network events quickly, reducing manual effort and operational overhead.

### Comprehensive Layer 2/3 Services

Supports advanced L2/L3 protocols, including BGP, OSPF, VRF-Lite, and IPv6. The switch is ideal for complex routing needs and multi-tenant environments, delivering both segmentation and dynamic path selection in evolving network topologies.

### Flexible Segmentation

Offers dynamic VXLAN with BGP-EVPN, enabling scalable and secure network segmentation. This supports deep segmentation within both campus and data center environments, catering to security and compliance demands of modern enterprises.

### Enhanced Analytics and Monitoring

Integrated Network Analytics Engine continuously monitors, analyzes, and remediates issues in real-time. This allows for proactive troubleshooting and improved network health, streamlining IT operations and reducing downtime risk.

### Efficient Hardware and Deployment

High hardware scale, NEBS certification, and N+1 redundancy features make the CX 8325 suitable for diverse deployments. Both front-to-back and back-to-front airflow options ensure adaptable installation, meeting data center and campus standards worldwide.

## Technical Specifications

### Product Specifications

Feature	Value
Switch Base Model	JL635A (8325-48Y8C)
Port Configuration	48 × 25G SFP28 (1/10/25GbE auto-sensing), 8 × 100G QSFP28 (40/100GbE breakout capable)
Switching Capacity	6.4 Tbps
Forwarding Rate	2,000 Mpps
Packet Buffer	32 MB shared
CPU	2.2 GHz multi-core
Memory	16 GB DDR4 RAM
Storage (SSD)	64 GB SSD (for logging/analytics)
Flash (OS Storage)	8 GB flash
Modular Components (Fans)	6 × JL629A (B2F fan modules)
Modular Components (PSUs)	2 × JL633A (650W B2F AC PSUs)

Feature	Value
Input Voltage	100-240V AC (auto-sensing)
Power Consumption (Idle)	209W (714 BTU/hr)
Power Consumption (Max Load)	586W (2,000 BTU/hr)
Thermal	B2F airflow (6 hot-swappable fans)
Dimensions (H × W × D)	43.2 × 438.4 × 535.9 mm
Management Interface	CLI: Hierarchical with role-based access
Monitoring	SNMPv3, RMON, sFlow (RFC 3176)
Automation	REST API, Ansible/Puppet modules

## Product Comparison

Feature	JL625A	C9500-48Y4C-E	C9300-48S-A
Switching Capacity	6.4 Tbps	2.4 Tbps	176 Gbps
Forwarding Rate	2,000 Mpps	2,000 Mpps	130.95 Mpps
25G/10G SFP+ Ports	48 × 25G SFP28	48 × 1G/10G SFP+	48 × 1G SFP
100G QSFP+ Ports	8	4 × 40/100G QSFP+	4 × 1G/10G SFP+
Layer 3 Protocol Support	BGP, OSPF, VRF-Lite, IPv6	OSPF, BGP, VRF-Lite, IPv6	OSPF, EIGRP, RIP
Stacking Capability	VSX redundancy, no hardware stacking	StackWise Virtual Supported	StackWise-480 Supported
Redundant Power Supplies	Yes, hot-swappable	Yes, hot-swappable	Yes, optional
OS Automation/Programmability	REST API, Python scripting	REST API, Python scripting	Web UI, REST API
Typical Scenario	Core/Aggregation, DC ToR/ EoR	Enterprise Core, High-Density	Access/Aggregation, Enterprise Campus



## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"><li>- Power Cords</li><li>- Rack Mount Kit</li><li>- Quick Start Guide</li></ul>
Optional Accessories	<ul style="list-style-type: none"><li>- SFP+/QSFP28 Transceivers</li><li>- Additional Power Supplies</li><li>- Fan Modules</li></ul>



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## References

[1] HPE Aruba. (2023). Aruba CX 8325 Switch Series Technical Specifications. Retrieved from <https://www.hpe.com/psnow/doc/a00059009enw>