

# Aruba JL668A

## Datasheet

## Product Overview

- The Aruba CX 6300 Series is a modern, flexible, and intelligent family of stackable switches built for high-performance networks.
- It is ideal for access, aggregation, and top-of-rack deployments in enterprise offices and large data centers, meeting demands of distributors and integrators.
- The CX 6300 features Aruba Gen7 ASICs, wirespeed 1/10/25/50GbE uplinks, and high power IEEE 802.3bt PoE, supporting high-speed APs and IoT needs.
- Advanced network analytics and full programmability give the CX 6300 deep visibility and rapid troubleshooting, setting it apart from traditional switches.
- Deployment is simplified with Aruba NetEdit and Aruba CX Mobile App, ensuring flawless configurations and seamless rollout across networks.
- Ready for future growth, the Aruba CX 6300 enhances access networks with reliability, efficiency, and scalability for business-critical environments.

## Product Highlights

- **Enterprise-Class Layer 3 Features:** Supports BGP, EVPN, VXLAN, VRF, and OSPF, delivering robust routing, security, and Quality of Service for demanding networks.
- **High Performance Stacking:** Up to 200 Gbps stacking bandwidth, 880 Gbps system switching capacity, and 660 MPPS throughput for seamless high-speed scaling.
- **Flexible Multi-Gigabit Access:** Full density HPE Smart Rate multi-gigabit (1/2.5/5GbE) and up to 60W PoE per port enable high-speed APs and IoT deployment.
- **Intelligent Network Management:** NetEdit automation, one-touch CX Mobile App deployment, and Network Analytics Engine ensure easy operation and secure segmentation.

## Detailed Features



JL668A

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

Component	Specification
Ports	(24) 10/100/1000 BASE-T, (4) 1/10/25/50G SFP
Processor	Quad Core ARM Cortex™ A72 @ 1.8GHz
Memory	8GB DDR4, 32GB eMMC
Packet Buffer	8 MB Shared
Switching Capacity	448 Gbps



## Integrated Automation and Analytics

The Aruba CX 6300 features built-in analytics for precise, real-time network monitoring and troubleshooting. Its Network Analytics Engine (NAE) actively interrogates events with Python agents and REST APIs, making issue detection and resolution far more effective than traditional monitoring tools.

## Time Series Database for Operations

Every configuration and operational state on the CX 6300 is recorded to a Time Series Database (TSDB). This immediate storage enables fast network diagnostics and historical analysis, accelerating fault isolation and recovery when changes or incidents occur across the infrastructure.

## Rapid and Consistent Network Changes

The switch integrates Aruba NetEdit for automated, network-wide configuration. This means you can quickly deploy updates or policy changes across multiple switches and verify compliance, reducing administrative time and the risk of misconfigurations in large-scale operations.

## High-Performance Distributed Architecture

Leveraging Aruba Gen7 ASICs, the CX 6300 operates with low latency, significant packet buffering, and fully distributed switching. All Layer 2/3 operations are performed at wirespeed, accommodating the demands of data-intensive business, campus, and data center deployments.

## Scalable Stacking and Expansion

Aruba's Virtual Switching Framework (VSF) allows up to ten switches to function as a single managed unit, thanks to dedicated QSFP28 uplinks supporting a total 200 Gbps stacking throughput. This streamlines network scaling and boosts reliability for expansion.

## Powerful PoE for Modern Devices

With HPE Smart Rate multi-gigabit Ethernet and up to 60W PoE on every port (max 2880W), the CX 6300 can simultaneously support high-power APs, cameras, and IoT sensors ideal for next-gen smart and IoT-enabled spaces.

## Smarter Network Segmentation

Dynamic Segmentation enforces user, device, and application-based policies across wired and wireless connections. Role-based access control, automated profiling, and Layer 7 firewall ensure secure, frictionless user and device onboarding, supporting advanced enterprise security strategies.

## Scalable VXLAN and Multi-Tenancy

Advanced multi-tenancy is enabled through VXLAN-to-VRF mapping and switch-to-switch tunnels. User roles and policy application help virtualized or segmented campus networks grow dynamically, supporting enterprise service differentiation and security containment.

# Technical Specifications

## Product Specifications

Feature	Value
Product Number (SKU)	JL668A
Product Series	Aruba CX 6300 Switch Series
Positioning	Modern, flexible, intelligent AOS-CX stackable switches for enterprise access, aggregation, and ToR data center
Model-specific Ports	24 SFP+ and 4 SFP56 ports
Ports	(24) 10/100/1000 BASE-T ports
Additional Ports	(4) 1/10/25/50G SFP ports
Processor	Quad Core ARM Cortex™ A72 @ 1.8GHz
Memory	8 GBytes DDR4
Storage	32 GBytes eMMC
Packet Buffer	8 MB Shared Packet Buffer Memory
Latency (1Gbps)	2.28µSec



Feature	Value
Latency (10Gbps)	1.46µSec
Latency (25Gbps)	1.90µSec
Latency (50Gbps)	3.49µSec
Throughput	334 Mpps
Switching Capacity	448 Gbps
PoE Capability	Up to 2,880 W, depending on model and installed power supplies
Stacking	Up to 10 switches per stack
Management Features	Aruba AirWave, Aruba Central Network Management, Aruba NetEdit, Command-line interface, SNMP v2c/v3, RMON
Input Voltage	100-120/200-240 VAC
Power Consumption	63 W (maximum)
Dimensions	4.4 x 44.2 x 32.7 cm
Weight	4.36 kg

## Product Comparison

Feature	JL668A	Arista DCS-7020SRG-24C2#	C1-N3K-C3172PQ
Port Configuration	24 × 10/100/1000 BASE-T, 4 × 1/10/25/50G SFP	24 × 10G SFP+, 2 × 100G QSFP	48 × 10G SFP+, 6 × 40G QSFP+
Switching Capacity	448 Gbps	1.2 Tbps	1.4 Tbps
Forwarding Rate	334 Mpps	900 Mpps	1 Bpps
PoE Capability	Up to 2,880W	Not supported	Not supported
Stack Members	Up to 10	Up to 6	Up to 12
Management	Aruba AirWave, Central, NetEdit, CLI, SNMP v2c/v3, RMON	CloudVision, CLI, SNMP	NX-OS, DCNM, CLI, SNMP
Layer 3 Protocols	BGP, OSPF, VXLAN, VRF, EVPN	OSPF, BGP, IS-IS, VXLAN, EVPN	OSPF, BGP, IS-IS, VXLAN
Dimensions (W x D x H)	44.2 x 32.7 x 4.4 cm	43.8 x 48.4 x 4.4 cm	43.7 x 62.5 x 4.4 cm



Feature	JL668A	Arista DCS-7020SRG-24C2#	C1-N3K-C3172PQ
Target Application	Enterprise access & aggregation, ToR	Data center, high-density 10/40/100G	High-density data center, aggregation

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"><li>- Power Adapter</li><li>- Mounting Brackets</li><li>- Quick Setup Guide</li></ul>
Optional Accessories	<ul style="list-style-type: none"><li>- SFP+/SFP56 Transceivers</li><li>- Redundant Power Supply</li><li>- Stack Module</li></ul>



## 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 23 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.

**18,000+**

global customers

**600,000+**

end-users

**200+**

countries & regions

**23**

years experience

**500+**

global vendors

**100,000+**

SKUs available

**700+**

local sales experts

**50-98%**

off global list prices

## Contact Us

### Email

**High Connectivity:** [sales@router-switch.com](mailto:sales@router-switch.com)

**Expert Technical Support:** [ccie-support@router-switch.com](mailto:ccie-support@router-switch.com)

**Cooperative Partnerships:** [ccie-support@router-switch.com](mailto:ccie-support@router-switch.com)

### Phone

**USA:** +1-626-655-0998

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

### 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)

## Global Footprint

Global Warehouses & Service Centers Across Continents.



## Global Branches

### Headquarters (Hong Kong)

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

### USA Branch

3592 Rosemead Blvd, B #220, Rosemead, CA 91770, 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] Aruba. (2023). Aruba CX 6300 Switch Series Datasheet (JL668A). Retrieved from <https://www.hpe.com/psnow/doc/a00085162enw>