

Aruba R8Q68A Datasheet



Product Overview

- Aruba's CX 6200 Switch Series stands at the forefront of access layer networking, offering next-generation stackable solutions.
- Designed for businesses, this series serves enterprise branches, campus networks, and SMBs seeking advanced connectivity.
- With Gen7 ASIC architecture, these switches deliver fast non-blocking throughput, high-performance uplinks, and robust PoE capabilities.
- The series introduces Virtual Stacking Framework (VSF) technology for simple scaling and unified management.
- Deployment and configuration are streamlined with appbased tools and built-in cloud-centric network analytics.
- Branch offices, enterprise campuses, and small businesses benefit from secure, flexible access designed to handle modern networking demands.

Product Highlights

- Enterprise Connectivity: Supports ACLs, advanced QoS, and OSPF/static routing for secure, reliable data transmission.
- **Scalable Architecture:** Up to 384 ports through 8-member VSF stacking and simple deployment via CX Mobile app.
- Versatile Uplink Choices: Models include modular and fixed switches with 1/10 GbE uplinks and robust PoE options.
- Intelligent Monitoring: Comprehensive visibility and automation through Aruba's Network Analytics Engine and Multi-Edit Software.

Detailed Features



R8Q68A



Component	Specification
Downlink Ports	48x 10/100/1000BASE-T ports (max, model dependent)
Uplink Ports	4x 1/10G SFP ports
PoE	Available on select models
Switching Capacity	Up to 176 Gbps, depending on model
Stacking	Up to 8 switches



High-Performance Layer 3 Switching

The CX 6200 Series delivers wire-speed Layer 3 switching for enterprise edge and branch deployments, powered by Gen7 ASICs for ultra-low latency, increased packet buffers, and adaptive power consumption to handle intensive workloads seamlessly.

Flexible Virtual Stacking

Aruba VSF supports creation of stacks with up to 8 members using built-in SFP+ ports. This enables flexible, high-performance stacking across distances using long-range transceivers and simplifies network expansion as organizations scale.

Powerful PoE for Edge Devices

Select models support up to 1440W IEEE 802.3at (Class 6) Power over Ethernet, delivering up to 60W per port. This allows easy deployment of a large number of wireless APs, security cameras, and IoT devices directly at the network edge.

Redundant Power and Modular Design

The series includes flexible, modular switch configurations with hot-swappable, redundant power supply and fan options, ensuring ongoing network reliability and minimizing downtime in mission-critical environments.

Real-Time Network Analytics

The built-in Network Analytics Engine (NAE) monitors network health continuously, providing advanced telemetry and automatic troubleshooting to quickly resolve issues. Telemetry and Python/REST API-based analytics add to real-time operational insight.

Advanced Automation Tools

Aruba Switch Multi-Edit Software automates bulk changes, enabling rapid deployments, consistent policy enforcement, and streamlined post-update validations. Configuration management is simplified, making large-scale network updates less error-prone.

Unified Management Platforms

Manage switches through Aruba Central, Multi-Edit Software, a web GUI, or industry-standard CLI. Unified wired and wireless management reduces manual effort for adds, moves, and changes with role-based policies and colorless ports.

Intelligent Segmentation and Security

Dynamic Segmentation auto-enforces consistent user and device policies across Aruba wired and wireless infrastructure. Features include role-based access control, Layer 7 firewall, and VXLAN tunneling for high-performance secure segmentation.

Technical Specifications

Product Specifications

Feature	Value
Downlink Ports	48x 10/100/1000BASE-T ports, max, depending on model
Uplink Ports	4x 1/10G SFP ports
PoE Availability	PoE available with select models
CPU Model	Quad Core ARM Cortex™ A72 at 1.8 GHz
Memory	8 GB DDR4
Flash	16 GB eMMC
Latency (1 Gbps)	2.28 μSec
Latency (10 Gbps)	1.46 μSec
Throughput	Up to 130.9 Mpps, depending on model
Routing/Switching Capacity	176 Gbps, max, depending on model
PoE Capability	Up to 740W of Class 4 PoE power, depending on model
Stacking Capability	8 members



Feature	Value
Input Voltage	100V-120V/200V-240V
Max Power Consumption	76W at 230 VAC, max, depending on model
Product Dimensions	4.39 x 44.2 cm x 32.7 cm
Weight	5.10 kg, max, depending on model

Product Comparison

Feature	R8Q68A	C9300-24UX-A	C9200-48T-E
Switching Capacity	Up to 176 Gbps, depending on model	Up to 272 Gbps	176 Gbps
Forwarding Rate	Up to 130.9 Mpps	Up to 202.38 Mpps	130.95 Mpps
Downlink Ports	48x 10/100/1000BASE-T (max, model dep.)	24x Multigigabit (10M/100M/1G/2.5G/5G/10G) Ethernet	48x 10/100/1000BASE-T
Uplink Ports	4x 1/10G SFP	4x 10G SFP+	4x 1G/10G SFP+
PoE Capability	Up to 1440W (on select models)	Up to 1440W	PoE not supported (48T-E)
Stacking Support	Up to 8 members (VSF)	Up to 8 units (StackWise-480)	Up to 8 units (StackWise-160)
Redundant Power	Supported (hot-swappable)	Supported	Supported
Network Analytics	Built-in NAE, automation ready	DNA Center analytics integration	Basic analytics, no advanced built-in engine
Management Options	Aruba Central, CLI, Web GUI	Cisco DNA Center, CLI, Web GUI	CLI, Web GUI

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Rack Mount Kit - Quick Installation Guide
Optional Accessories	- SFP Transceiver - Redundant Power Supply



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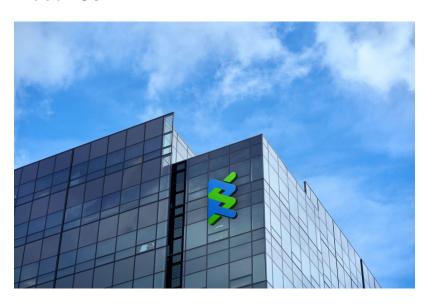


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UK Branch

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References

[1] Hewlett Packard Enterprise. (2023). Aruba Networking CX 6200 Switch Series Datasheet. Retrieved from https://www.hpe.com/psnow/doc/PSN1012684094WWEN.pdf?jumpid=in_pdp-psnow-dds