

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 app-based 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

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| 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 | <ul style="list-style-type: none"> - Power Adapter - Rack Mount Kit - Quick Installation Guide |
| Optional Accessories | <ul style="list-style-type: none"> - SFP Transceiver - Redundant Power Supply |



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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