Aruba R8Q70A

Datasheet

Product Overview

- Aruba's CX 6200 Switch Series delivers next-gen stackable access switches engineered for evolving business needs.

- Designed for enterprise branches, campus networks, and SMBs, it supports seamless growth and diverse deployment scales.

- Built with Gen7 ASIC architecture, it achieves non-blocking performance, rapid processing, and integrated high-speed uplinks.

- Differentiated by cloud-ready OS, VSF for up to 8-member stacking, and powerful PoE for IoT scaling.

- Deployment is simplified by mobile and centralized management, giving IT teams visibility and advanced troubleshooting tools.

- Future-ready, the CX 6200 optimizes network resilience and prepares your business for unpredictable connectivity demands.

Product Highlights

- **Enterprise-Class Networking:** Offers support for powerful ACLs, advanced QoS, and common protocols including static and OSPF routing.

- **High Scalability and Easy Stacking:** Achieve up to 384 ports with 8-member VSF stacking, deployable via CX Mobile app for easy management.

- **Versatile Hardware Models:** Choose from fixed or modular switches, 1/10 GbE uplinks, and PoE up to 60W per port to support diverse devices.

- **Intelligent Monitoring and Secure Segmentation:** NAE delivers real-time network analytics; Dynamic Segmentation ensures secure user and IoT access.

Detailed Features

R8Q70A

Quote | Help

Component	Specification
Downlink Ports	48x 10/100/1000BASE-T Class 4 PoE, up to 30W per port
Uplink Ports	4x 1G/10G SFP ports (2x LRM; 2x LRM/MACSec 256)
PoE Standards	IEEE 802.3af, 802.3at
Console Ports	1x RJ-45, 1x USB-C
USB/OOBM Ports	1x OOBM, 1x USB Type-A Host port

Edge Performance and Reliability

Leveraging Gen7 ASICs, the CX 6200 Switch Series offers advanced Layer 3 access, wire-speed performance, low latency, and adaptive power consumption. It meets the connectivity needs of high-demand enterprise environments, ensuring rapid data forwarding in edge, SMB, and branch office networks.

High-Capacity PoE and Modular Flexibility

The CX 6200 supports up to 1440W PoE with each port handling up to 60W, ideal for connecting wireless APs and IoT endpoints. Modular designs feature hot-swappable, redundant power supplies and fans to maintain network uptime and resilience during replacement or failure events.

Scalable Stacking and Expansion

Virtual Switching Framework (VSF) enables up to 8-member stacking through built-in SFP+ ports, supporting network growth and simplified operations. Stacks can stretch longer distances via long-range transceivers, making expansion straightforward and adaptive to large-scale deployments.

Real-Time Analytics and Automation

The built-in Network Analytics Engine (NAE) proactively monitors, interrogates, and analyzes network events, speeding up troubleshooting. Advanced telemetry with Python agent and REST API integration streamlines detection and mitigation of system, application, and security issues.

Powerful Configuration Automation

Aruba CX Multi-Edit Software brings automation to rapid configuration changes network-wide. Policy conformance and device state are validated post-deployment with intelligent search, edit, and audit tools, reducing manual error and operational workload for IT admins.

Unified Management Suite

Managing the CX 6200 is flexible through Aruba Central cloud, Multi-Edit Software, Web GUI, or CLI. Unified wired, wireless, and WAN handling streamlines both new installations and ongoing changes, supporting colorless port deployment via LMA and RESTful APIs.

Smart Network Segmentation

Dynamic Segmentation assures user and IoT security across Aruba networks. Automated profiling, role-based access, and Layer 7 firewalling enhance control and visibility, optimizing resources for better IT and user experiences.

Seamless Migration and Reduced Complexity

VXLAN enables high-performance, low-latency switch-to-switch tunnels for scalable enterprise uses. Add, move, or change tasks are automated, minimizing errors and speeding network updates in multi-tenant and hybrid cloud environments.

Technical Specifications

Product Specifications

Feature	Value
Product Number	R8Q70A
Differentiator	48x ports 10/100/1000BASE-T Class 4 PoE Ports, supporting up to 30W per port 4x 1G/10G SFP ports (2x LRM 2x LRM/MACSec 256) Supports PoE Standards IEEE 802.3af, 802.3at 1x RJ-45 Console Port 1x USB-C Console Port 1x OOBM 1x USB Type-A Host port.
Downlink Ports	48x ports 10/100/1000BASE-T Class 4 PoE Ports, supporting up to 30W per port
Uplink Ports	4x 1G/10G SFP ports (2x LRM; 2x LRM/MACSec 256)
PoE Standards Supported	IEEE 802.3af, 802.3at
Console Ports	1x RJ-45 Console Port, 1x USB-C Console Port
OOBM	1x Out-of-band management port
USB Host	1x USB Type-A Host port

Feature	Value
CPU	Quad Core ARM Cortex™ A72 at 1.8 GHz
Memory	8 GB DDR4
Flash	16 GB eMMC
Latency at 1 Gbps	2.28 µSec
Latency at 10 Gbps	1.46 µSec
Throughput	Up to 130.9 Mpps
Routing/Switching Capacity	176 Gbps
PoE Capability	1440W
Stacking Capabilities	8 members
Power Supply Slots	2 field-replaceable, hotswappable power supply slots
Minimum Power Supply	1 minimum power supply required (ordered separately)
Supported PSUs	JL086A JL087A
Max PoE Power	1440W
Input Voltage	100V-120V/200V-240V
Power Consumption	76W at 230 VAC
Dimensions (HxWxD)	4.39 x 44.247 x 38.38 cm
Weight	6.01 kg

Product Comparison

Feature	R8Q70A	C9200-48P-E	EX2300-48MP
Downlink Ports	48x 10/100/1000BASE-T (PoE+)	48x 10/100/1000BASE-T (PoE+)	48x 10/100/1000BASE-T (PoE+)
Uplink Ports	4x 1G/10G SFP (2x LRM; 2x LRM/MACSec 256)	4x 1G/10G SFP+	4x 10G SFP+
PoE Power Budget	1440W (up to 60W/port)	740W	1440W
Switching Capacity	176 Gbps	176 Gbps	128 Gbps
Stacking Support	8-member VSF	Up to 8 units	Up to 4 units
Management Features	Web GUI, CLI, Aruba Central, Multi-Edit Automation	Web UI, CLI, Cisco DNA Center	Web UI, CLI, Junos Space

Feature	R8Q70A	C9200-48P-E	EX2300-48MP
Redundant Power	Supported, hot-swappable	Supported	Supported
Dimensions (HxWxD)	4.39 x 44.247 x 38.38 cm	4.4 x 44.5 x 35.8 cm	4.37 x 44 x 39.5 cm
Weight	6.01 kg	7.1 kg	7.2 kg

Accessories

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

Support & Warranty

24/7 Online Service

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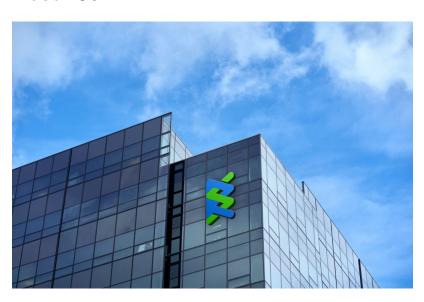
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References

[1] HPE Aruba Networking. (2023). Aruba CX 6200 Series Switches - Technical Specifications. Retrieved from https://www.hpe.com/psnow/doc/PSN1014708944UAEN