

Aruba R8Q71A

Datasheet

Product Overview

- Aruba's CX 6200 Series represents a new generation of stackable access switches for enterprise networking.
- Designed for enterprise branch, campus, and SMB networks, it meets the needs of secure, scalable connectivity.
- It delivers reliable performance through HPE Aruba Gen7 ASIC, built-in analytics, and automation features.
- Key capabilities include a programmable OS and Network Analytics Engine, giving advanced visibility and controls.
- Simple deployment via the CX Mobile App speeds installation and enables stacking of up to 8 switches at once.
- From branch offices to campus access, CX 6200 combines enterprise-grade security, analytics, and ease of use in one solution.

Product Highlights

- **Enterprise-Grade Connectivity:** Supports advanced ACLs, robust QoS, static and OSPF routing for secure, high-performance access.
- **Scalable Stacking:** 8-member VSF stacking provides up to 384 downlink ports, accommodating expanding networks.
- **Flexible Uplink Selection:** 1G/10G uplinks with MACsec and LRM on modular models, plus cost-effective 1G uplink options.
- **Unified Management & Security:** Single-pane management with Aruba Central and secure access with Dynamic Segmentation.

Detailed Features



R8Q71A

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Component	Specification
Gigabit PoE Ports	36 × 10/100/1000BASE-T Class 6 PoE, up to 60W per port
Multi-Gig PoE Ports	12 × 100M/1G/2.5G/5G SmartRate Class 6 PoE, up to 60W per port
Uplink Ports	4 × 100M/1G/10G SFP (2 × LRM; 2 × LRM/MACsec 256)
PoE Standards Supported	IEEE 802.3af, 802.3at, 802.3bt (up to 60W)
Console & Management	RJ-45 Console, USB-C Console, OOBM, USB Type-A Host



Modern Software Architecture

Built on AOS-CX, a database-driven OS, CX 6200 automates and simplifies complex network operations. Time series database and programmable scripting allow detailed trend analysis and proactive troubleshooting for resilient business continuity.

Advanced Analytics and Troubleshooting

Integrated Network Analytics Engine (NAE) enables real-time network monitoring, historical data analysis, and streamlined troubleshooting using Python, CLI, and REST APIs, reducing downtime and facilitating deep insight into system health.

Unified System Management

HPE Aruba Networking Central offers unified, AI-driven management for wired, wireless, and WAN environments. This central dashboard streamlines provisioning, monitoring, and reporting, making operations intuitive for enterprises and SMBs alike.

Flexible Modular OS Design

A modular Linux-based architecture with continuous state synchronization provides operational resilience. Micro-services and RESTful APIs enable workflow integration, event-driven automation, and reliable system upgrades.

Workflow Integration & Automation

Continuous telemetry and programmable APIs support automation for speedy, error-free task deployment across the network. WebSocket subscriptions enable real-time event responses, ensuring robust automation.

Enhanced Fault Tolerance

Stateful, modular processes enhance system reliability. Each software module can be upgraded independently, delivering high availability and service continuity in evolving enterprise networks.

AI-Driven Operations

Leverage AI insights for health monitoring, performance tuning, and root-cause analysis. Integrated tools like NAE and NetEdit support both automated and manual workflows for comprehensive wired assurance.

Comprehensive Compliance Tools

Automated configuration and audit tools in the Aruba CX portfolio ensure policy conformance. Centralized validation, search, edit, and deployment minimize errors, help maintain regulatory compliance, and streamline large-scale rollouts.

Technical Specifications

Product Specifications

Feature	Value
Stack Size	Up to 8 members (with other 24/48p 6200F and 6200M switches only)
Max. Stacking Distance	Up to 10 km (with long-range transceivers)
Stacking Bandwidth	40 Gbps
Switched Virtual Interfaces (SVIs)	128
IPv4 Host Table	8,192 (ARP entries)
IPv6 Host Table	8,192 (ND entries)
IPv4 Unicast Routes	2,048
IPv6 Unicast Routes	1,024
MAC Table Capacity	32,768
IGMP Groups	768
MLD Groups	768
ACL Entries (Ingress, IPv4/IPv6/MAC)	5,120 / 1,280 / 5,120
ACL Entries (Egress, IPv4/IPv6/MAC)	2,048 / 512 / 2,048



Feature	Value
Operating Temperature Range	32°F to 113°F (0°C to 45°C)
High Altitude Derating	Up to 5,000 ft; derate 1°C per 1,000 ft from 5,000 to 10,000 ft
Short Excursions Supported	Up to 131°F (55°C) supported
Operating Humidity	5% to 95% @ 104°F (40°C), non-condensing
Storage Temperature Range	-40°F to 158°F (-40°C to 70°C)
Storage Humidity	5% to 95% @ 149°F (65°C), non-condensing
Max Operating Altitude	10,000 ft (3.048 km)
Max Non-Operating Altitude	15,000 ft (4.6 km)
Sound Power (LWAd)	5.3 Bel
Sound Pressure (LpAm)	37.1 dB (bystander)
Airflow Direction	Front and side to back
Electrical Frequency	50Hz / 60Hz
AC Voltage Range (JL086A PSU)	100V–240V
AC Voltage Range (JL087A PSU)	110V–240V
Current (JL086A PSU)	8A / 3.5A
Current (JL087A PSU)	12A / 5A
PSU Efficiency (JL086A)	80Plus Gold
PSU Efficiency (JL087A)	80Plus Platinum
Maximum Heat Dissipation	260 BTU/hr
Maximum Heat Dissipation	274 kJ/hr

Product Comparison

Feature	R8Q71A	C1-WS3650-24UQ/K9	JG963A
Port Configuration	36 × 10/100/1000BASE-T PoE + 12 × Multi-Gig PoE + 4 × 10G SFP	24 × 10/100/1000BASE-T + 4 × 10G SFP+	24 × 10/100/1000BASE-T + 4 × 1G SFP
PoE Output per Port	Up to 60W (Class 6)	Up to 30W	Up to 30W
Stacking Capacity	Up to 8 members, 40 Gbps stacking	Not Supported	Not Supported
Uplink Type	4 × 10G SFP (incl. LRM/ MACsec)	4 × 10G SFP+	4 × 1G SFP



Feature	R8Q71A	C1-WS3650-24UQ/K9	JG963A
Switching OS	AOS-CX with built-in analytics	IOS XE	Comware
Management	Aruba Central, Mobile App, REST API	Web, SNMP, CLI	Web, SNMP, CLI
Layer 3 Features	Static, OSPF routing	Static, RIP, OSPF	Static, OSPF
Redundant Power	Supported (modular models)	Supported	Supported
Advanced Security	Dynamic Segmentation, MACsec 256	TrustSec, MACsec	MACsec
Typical Scenario	Enterprise campus, high power IoT	Enterprise access	Enterprise access

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Rack Mount Kit - Console Cable
Optional Accessories	- SFP Transceiver Module - Redundant Power Supply - Extended Warranty License



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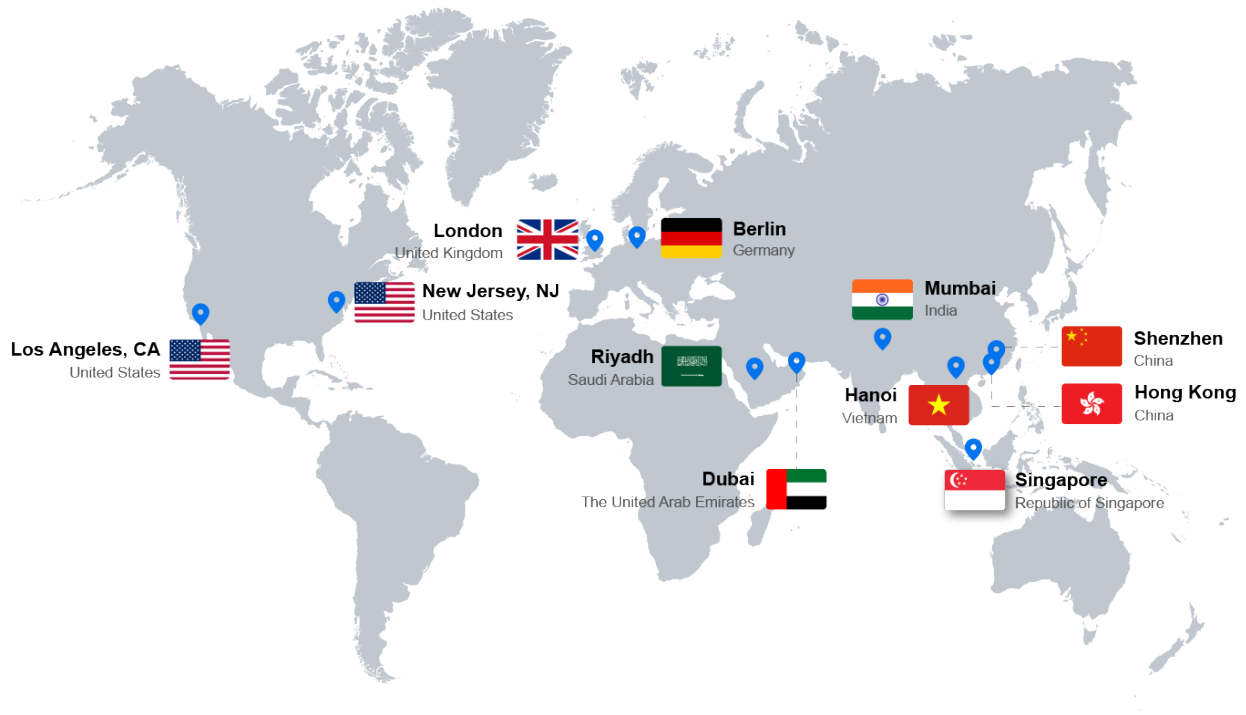
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References

[1] HPE Aruba Networking. (2023). Aruba CX 6200 Series Switches Data Sheet. Retrieved from <https://www.hpe.com/psnow/doc/a00097415enw>