

Aruba R8S89A

Datasheet

Product Overview

- The Aruba CX 6300 Switch Series offers advanced, stackable networking solutions, tailored for evolving enterprise and data center environments.
- Ideal for access, aggregation, and top-of-rack deployments, this series supports distributed offices and growing enterprise sites with demanding applications.
- Engineered with high-speed ASICs, the CX 6300 provides robust, non-blocking performance and scalable stacking up to 10 switches.
- It features cloud-native programmability, real-time network analytics, and HPE Smart Rate Ethernet for access points and IoT devices.
- Deployment is simplified by multi-edit software, a mobile app, and built-in high-speed uplinks for versatile connectivity.
- The CX 6300 delivers consistent, reliable networking for organizations needing secure, high-density, easy-to-manage switching.

Product Highlights

- **Stackable Layer 3 Architecture:** Supports advanced protocols like BGP, OSPF, EVPN, and VXLAN for flexible multi-layer network deployment.
- **Multi-Gigabit High-Power PoE:** Options for up to 90W PoE per port and Smart Rate Multi-Gigabit Ethernet for AP and IoT connectivity.
- **High-Speed Uplink Connectivity:** Integrated 10/25/40/50/100 GbE uplinks and up to 400 Gbps stacking bandwidth deliver fast data transmission.
- **Centralized Management:** Managed via Aruba Central with Dynamic Segmentation for streamlined access and improved security.

Detailed Features



R8S89A

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Component	Specification
Downlink Ports	24 × Smart Rate 100M/1G/2.5G/5G/10G BaseT, Class 6 PoE, up to 60W per port
Uplink Ports	2 × 10G/25G/50G SFP; 2 × 10G/25G SFP (MACSEC)
PoE Standards Supported	IEEE 802.3af/at/bt (up to 60W)
Console Ports	1 × USB-C, 1 × RJ45
Management/Expansion Ports	1 × OOBM, 1 × USB Type A Host

Powerful Distributed Architecture

Built on Gen7 ASICs, the CX 6300 delivers low latency, high packet buffering, and adaptive power use, meeting the needs of modern, bandwidth-heavy applications. All switching and routing operate at wirespeed to guarantee consistent high performance for demanding enterprise workloads.

Flexible High-Speed Connectivity

Features four integrated uplinks supporting 10, 25, 50, and 100 GbE, enabling rapid aggregation and stacking throughput up to 400 Gbps per switch. The underlying framework ensures hassle-free growth as business requirements expand, maintaining seamless user experiences.

Versatile PoE Deployment

Offers high-density HPE Smart Rate Multi-Gigabit Ethernet with various PoE classes per port (30W, 60W, and 90W), supporting budgets of 720W, 1440W, and 2880W. Enables efficient powering of access points, surveillance, and IoT devices in diverse access layer scenarios.

Cost-Effective Layer 2 Options

The CX 6300L models provide stackable, high-performance Layer 2 switching with static routing. Customers can benefit from scalable, affordable connectivity, making it the ideal choice for access layer expansion and cost-sensitive projects.

Built-In Real-Time Analytics

Leverages built-in network analytics and a time series database for real-time monitoring, quick issue detection, and root cause analysis. This approach helps proactively manage network health and minimize service disruptions across large enterprise environments.

AI-Powered Automation Tools

Streamlines configuration and compliance with AI-driven insights in Aruba Central. Features like CLI, Python agents, and REST API simplify large-scale deployments and support quick, consistent policy enforcement and network-wide updates.

Centralized Management Platform

Aruba Central integration delivers a single management point, boosting network visibility and extending the AI toolkit. IT teams benefit from automated workflows, faster troubleshooting, and reliable configuration auditing at enterprise scale.

Dynamic, Intelligent Segmentation

Implements dynamic segmentation for real-time enforcement of user, device, and application-aware policies. Layer 7 application recognition, automated profiling, and robust firewalling enhance security and end-user experience, reducing manual IT workloads.

Technical Specifications

Product Specifications

Feature	Value
Downlink Ports	24-port Smart Rate 100M/1G/2.5G/5G/10G BaseT (MACSEC, Class 6 PoE, up to 60W/port)
Uplink Ports	2x 10G/25G/50G* SFP ports; 2x 10G/25G SFP ports (MACSEC)
PoE Standards	IEEE 802.3af, 802.3at, 802.3bt (up to 60W)
USB Console Port	1 x USB-C
RJ Console Port	1 x RJ45
OOBM Port	1 x OOBM
USB Host Port	1 x USB Type A
Switching Capacity	880 to 1760 Gbps
System Throughput	660 to 1310 MPPS
Stacking Bandwidth	200 to 400 Gbps
Supported Stacking	Up to 10 switches (VSF)



Feature	Value
Chipset	Gen7 ASIC Architecture
Operating System	Fully Programmable, Cloud-Native
Network Analytics	Built-in Network Analytics Engine (NAE)
Management Options	Aruba Central, CX Multi-Edit SW, Mobile App
Deployment Application	Access/Aggregation/Data Center ToR
Power Budget Options	720W, 1440W, 2880W (model-dependent)
Security Features	MACsec 256, Role-Based Access, L7 Firewall
Physical Dimensions	(Refer to datasheet for specifics)
Supported Protocols	BGP, OSPF, EVPN, VXLAN, VRF, QoS

Product Comparison

Feature	R8S89A	C9500-32C-A	C1-N7010-B2S2
Downlink Ports	24 × Smart Rate Multi-Gigabit, PoE+	32 × 100G QSFP28	48 × 10G SFP+ (modular)
Uplink Capability	2 × 10/25/50G SFP, 2 × 10/25G SFP	32 × 100G QSFP28	6 × 40G QSFP+
Switching Capacity	880–1760 Gbps	6.4 Tbps	8 Tbps
Stacking Bandwidth	200–400 Gbps	N/A	1.92 Tbps
PoE Support	Yes, up to 90W/port	No	No
Layer 3 Routing	Advanced (BGP, OSPF, VRF, VXLAN)	Advanced	Advanced
Management	Aruba Central, mobile app	Cisco DNA	CLI, SNMP
Typical Scenario	Access/TOR, campus, edge	Data center core/dist	Data center core/agg
Form Factor	Fixed, stackable	Fixed, high-density	Modular chassis

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Adapter - Mounting Bracket - Quick Installation Guide



Category	Accessories
Optional Accessories	<ul style="list-style-type: none">- SFP Transceiver- Stack Module Kit- Redundant Power Supply



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References

[1] HPE Aruba Networking. (2024). CX 6300 Switch Series Datasheet. Retrieved from https://www.hpe.com/psnow/doc/PSN1014655842WWEN.pdf?jumpid=in_pdp-psnow-dds