

Aruba R8S92A

Datasheet

Product Overview

- Aruba's CX 6300 Switch Series is a modern, stackable switch line designed for intelligent, flexible networking in enterprise settings.
- Ideal for use as an access, aggregation, or data center top-of-rack switch, the CX 6300 meets the needs of SMBs and large organizations.
- Key hardware features include cloud-native architecture, a fully programmable system, and high-speed, non-blocking ASIC performance.
- The switch provides advanced monitoring, troubleshooting, and management via Aruba's unique Network Analytics Engine.
- With flexible management tools including Central, Multi-Edit Software, and a mobile app, deployment and configuration are easy and reliable.
- Overall, the CX 6300 Series ensures secure, scalable, and future-proof connectivity for Wi-Fi, IoT, and high-density network environments.

Product Highlights

- **Advanced Layer 3 Switching:** Supports BGP, EVPN, VXLAN, VRF, and robust Layer 3 protocols for enterprise-grade routing and segmentation.
- **Built-In Security & QoS:** Delivers MACsec 256 encryption, advanced QoS, PTP synchronization, and LRM for high-performance and secure access.
- **High-Speed Multi-Gigabit Uplinks:** Offers 10/25/40/50/100 GbE uplinks and HPE Smart Rate multi-gig Ethernet supporting 90W PoE per port.
- **Simplified Management:** Single-point control with Aruba Central and dynamic segmentation streamline access and security for users and IoT.

Detailed Features



R8S92A

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Component	Specification
SFP+ Ports	24x 1G/10G SFP+ (LRM + MACSEC)
Additional SFP Ports	2x 10G/25G/50G SFP; 2x 10G/25G SFP (MACSEC)
Console and Management Ports	1x USB-C Console, 1x RJ45 Console, 1x OOBM
USB Host Port	1x USB Type A
Stacking Capability	Up to 10 switches per stack



Fully Distributed Architecture

The CX 6300 harnesses Gen7 ASICs in a distributed design, ensuring very low latency, high packet buffering, and dynamic power use. All switching and routing tasks operate at wirespeed to meet demanding bandwidth needs in modern networks without bottlenecks.

Versatile Stacking and Expansion

With Virtual Switching Framework, stack up to 10 switches using high-performance front plane stacking. Integrated uplinks deliver speeds up to 100GbE and allow 200400 Gbps stacking bandwidth per switch, supporting large-scale, seamless expansion.

High-Density Multi-Gigabit PoE

Each port can provide 30W, 60W, or 90W PoE to ensure seamless power to wireless APs and IoT devices. The flexible PoE budgets (720W, 1440W, and 2880W options) enable deployments for dense enterprise, campus, or smart-building environments.

Layer 2-Only Stack Options

The CX 6300L offers stackable, high-performance Layer 2 switches with static routing, targeting customers who require scalable and cost-effective connections in access scenarios without full Layer 3 complexity.

Real-Time Built-In Analytics

An integrated Network Analytics Engine captures and stores configuration and operational states with a Time Series Database. It empowers rapid issue resolution through real-time monitoring and event analysis, enhancing network reliability.

Network-Wide Automation

Automation is made simple with Switch Multi-Edit Software and a mobile app enabling batch config, validation, and deployment. Intelligent change audit, search, and policy conformance features reduce manual effort and speed up operations.

Unified Management Platform

Manage all wired, wireless, and WAN infrastructure from a single interface in Aruba Central. Expanded AI-driven insights address the scale required in mission-critical networks, improving control, security, and performance.

Advanced Segmentation Capabilities

Dynamic Segmentation automatically enforces identity-driven policies on users and devices. With local MAC authentication, colorless ports, and switch-to-switch VXLAN tunnels, it supports secure, scalable enterprise multi-tenancy.

Technical Specifications

Product Specifications

Feature	Value
Product Number	R8S92A
Ports	24x 1G/10G SFP+ ports (LRM + MACSEC); 2x 10G/25G/50G* SFP ports; 2x 10G/25G SFP ports (MACSEC); 1x USB-C Console Port; 1x RJ Console Port; 1x OOBM port; 1x USB Type A Host port
50G Capability Notes	50G capability is for use with 50G DACs for both interconnect and VSF stacking. 50G transceivers and DACs are not supported on S0E91A and S0X44A switch models, which requires QSFP to SFP56 DAC cable for VSF stacking with other CX 6300F and CX 6300M switch models only. VSF stacking not supported on 1G ports.
CPU	Quad Core Arm Cortex™ A72 @ 1.8GHz
Memory	8 GB DDR4, 32 GB eMMC
Packet Buffer Memory	16 MB Shared Packet Buffer
Latency (1/10/25/50Gbps)	1Gbps: 4.24µSec, 10Gbps: 1.50µSec, 25Gbps: 2.91µSec, 50Gbps: 3.49µSec
Throughput	580 Mpps



Feature	Value
Routing/Switching Capacity	880 Gbps
Switching Capacity	780 Gbps
Stacking Capabilities	Up to 10 switches per stack; NOTE: CX 6300L switches only stack with other CX 6300L switches
Management Features	HPE Aruba Networking Central Network Management, Management Software (AirWave), Switch Multi-Edit, CLI, SNMP v2c/v3, RMON
Power Supply	2 field-replaceable, hot-swappable power supply slots; 1 minimum power supply required (ordered separately)
Supported PSUs	JL085A, JL757A
Input Voltage	JL085A PSU: 100V-240V
Power Consumption	Idle: 87W; 100% Traffic Rate: 131W
Dimensions	4.4 x 44.2 x 38.5 cm
Weight	6.71 kg

Product Comparison

Feature	R8S92A	WS-C4948E	C1-WSC3850-48XS-S
Fixed Ports	24x 1G/10G SFP+; 2x 10G/25G/50G; 2x 10G/25G SFP; 1x USB-C; 1x RJ Console	48 x 10/100/1000 RJ45, 4 x 1G SFP	48 x 10G SFP+, 4 x QSFP+ 40G
Stacking Capability	Up to 10 switches (VSF)	Not supported	StackWise-480 up to 9 units
PoE Budget	Up to 2880W (model dependent)	Not supported	Up to 1800W
Layer 3 Routing	Full Layer 3 (BGP, OSPF, VRF, VXLAN)	Basic Layer 3 (RIP, OSPF)	Full Layer 3 (OSPF, EIGRP, BGP)
Management	Central, Multi-Edit, CLI, SNMP	CLI, SNMP, Web	Web UI, CLI, SNMP
Uplink Speed	Up to 100GbE	4 x 1G SFP	4 x 40G QSFP+
Power Supply	Dual hot-swappable (redundant)	Dual hot-swappable	Dual redundant
Dimensions (WxDxH)	44.2 x 38.5 x 4.4 cm	44.5 x 35.6 x 4.4 cm	44.5 x 44.5 x 4.4 cm
Weight	6.71 kg	6.8 kg	8.5 kg



Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- Power Cord- Rack Mount Kit- Quick Start Guide
Optional Accessories	<ul style="list-style-type: none">- SFP Transceiver Module- Redundant Power Supply- DAC Cable



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References

[1] Hewlett Packard Enterprise. (2023). HPE Aruba Networking CX 6300 Switch Series Datasheet. Retrieved from https://www.hpe.com/psnow/doc/PSN1014655841WWEN.pdf?jumpid=in_pdp-psnow-dds