

Aruba R8S90A

Datasheet

Product Overview

- Aruba CX 6300 Series switches deliver intelligent, stackable performance for modern access, aggregation, and data center top-of-rack deployments.
- With built-in flexibility, the CX 6300 targets mid-sized enterprises, branch offices, managed service providers, and IoT-focused deployments.
- Key hardware highlights include a powerful ASIC, non-blocking architecture, integrated high-speed uplinks, and scalable stacking up to 10 switches.
- Distinctive features are the cloud-native programmable OS, Network Analytics Engine for deep visibility, and support for HPE Smart Rate multi-gigabit Ethernet.
- Management is streamlined using the Aruba Switch Multi-Edit Software and CX mobile app, ensuring efficient deployment and configuration.
- The CX 6300 empowers businesses with secure, high-density connectivity that is easy to manage, adapt, and scale for tomorrow's digital demands.

Product Highlights

- **Stackable Layer 3 & Layer 2 Switch Options:** Choose from stackable Layer 3 switches with advanced routing (BGP, OSPF, VXLAN), or Layer 2-only access models with MACsec 256 and multi-gigabit ports.
- **High-Capacity Switching & Throughput:** Offers ASIC-based system switching capacities from 880 to 1760 Gbps, with throughput between 660 and 1310 MPPS and stacking bandwidth up to 400 Gbps per device.
- **Flexible Uplinks & PoE Support:** Built-in 10/25/40/50/100 GbE uplinks and HPE Smart Rate (1/2.5/5/10GbE) provide adaptability for diverse network needs, including high-density 90W PoE.
- **Unified Management & Security:** Centralized via Aruba Networking Central with dynamic segmentation, enabling secure, simple user and IoT access with robust monitoring and visibility features.

Detailed Features



R8S90A

 [Quote](#) | [Help](#)

Component	Specification
Switching Capacity	880–1760 Gbps
Forwarding Rate	660–1310 MPPS
Max Stacking Bandwidth	200–400 Gbps
Uplink Interfaces	10/25/40/50/100 GbE (built-in)
PoE Support	Up to 90W per port (IEEE 802.3bt, Smart Rate Multi-Gigabit)



Next-Gen High-Speed Architecture

The CX 6300 harnesses a fully distributed Gen7 ASIC platform, ensuring wire-speed switching, extremely low latency, and advanced packet buffering for demanding business applications.

High-Density PoE Capability

Deliver high power to more endpoints with support for Class 4 (30W), Class 6 (60W), and Class 8 (90W) PoE per port, ensuring seamless deployment of access points and IoT devices.

Efficient Scalable Stacking

Aruba VSF technology enables up to 10 switches to be stacked, combining high stacking bandwidth with simplified management for network scalability and reliability.

Automated Network Analytics

Built-in Network Analytics Engine and a Time Series Database offer real-time monitoring, fast troubleshooting, and data-driven decision making, reducing downtime and operational costs.

Streamlined Automation & Policy

Multi-Edit Software and the CX app allow rapid, error-free configuration and deployment, with conformance checking and automation to standardize policies network-wide.

Unified Control & Dynamic Segmentation

Centralized management through Aruba Networking Central supports streamlined visual operations, with dynamic segmentation automatically applying policies to devices and users.

Application-Aware Security

Get user, device, and application-level visibility with Layer 7 firewall, role-based access controls, and device profiling for enhanced network security and performance.

Flexible Data Center Integration

CX 6300 supports seamless integration with HPE compute and storage as part of turnkey data center solutions, designed to simplify service delivery in complex IT environments.

Technical Specifications

Product Specifications

Feature	Value
Product Series	Aruba CX 6300 Switch Series
Switch Architecture	Fully distributed Gen7 ASIC
Switching Capacity	880–1760 Gbps
Packet Forwarding Rate	660–1310 MPPS
Stacking	Virtual Stacking up to 10 switches, 200–400 Gbps stacking bandwidth
Uplink Speed Options	10/25/40/50/100 GbE
PoE Support	IEEE 802.3bt, Class 4/6/8, Up to 90W per port
PoE Budget Options	720W/1440W/2880W maximum
Layer 2/3 Features	Layer 3 routing (BGP, OSPF, VRF), Layer 2-only in 6300L
Security	MACsec 256, Dynamic segmentation, Role-based access control
Intelligent Monitoring	Network Analytics Engine (NAE), Time Series Database
Management	Aruba Networking Central, Multi-Edit Software, CX Mobile App



Feature	Value
Automation & API	CLI, Python agents, REST API
Application Recognition	Advanced Feature Pack option
Device Profiling	Automated, supports IoT endpoints
Redundant Power	Supported on selected models
Dimensions	Varies per model
Deployments	Access, Aggregation, Data Center Top-of-Rack
Integration	HPE Compute/Storage/full-stack IT solutions

Product Comparison

Feature	R8S90A	C1000-48FP-4X-L	C9200L-48T-4X-E
Switching Capacity	880–1760 Gbps	176 Gbps	176 Gbps
Forwarding Rate	660–1310 MPPS	130.95 Mpps	130.95 Mpps
Stacking Bandwidth	200–400 Gbps	Not supported	80 Gbps
Fixed Ports	48 x multi-gigabit, PoE+ support	48 x 10/100/1000Base-T PoE+	48 x 10/100/1000Base-T
Uplink Interfaces	10/25/40/50/100 GbE	4 x 10G SFP+	4 x 10G SFP+
PoE Capability	Up to 90W/port, max 2880W	PoE+ (30W/port), max 740W	Not PoE
Layer 3 Features	Advanced (BGP, VRF, VXLAN)	Basic static routing	Static & RIP routing
Management	Aruba Central, Mobile App, Full Automation	Web, CLI, SNMP	Web, CLI, DNAC ready
Security	MACsec 256, Dynamic Segmentation	Standard Access Control	DHCP Snooping, Port Security
Ideal Use	High-density, scalable access or ToR	Enterprise access w/PoE	Enterprise access (non-PoE)



Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- Power Adapter- Rack Mount Kit- Quick Start Guide
Optional Accessories	<ul style="list-style-type: none">- SFP+/QSFP28 Transceivers- Redundant Power Supply- Extended License Pack



Support & Warranty



24/7 Online
Service



3-Year Premium
Warranty



Professional
Technical Support



100% Low Price
Guarantee



100% Quality
Assurance



100% Money
Back Guarantee

About Us



Router-switch.com, headquartered in Hong Kong since 2002, has been a trusted global leader in ICT distribution for 23 years. We provide cutting-edge networking, cybersecurity, data center, and AI solutions to meet evolving business needs. Our wide range includes products from top brands like Cisco, Arista, Aruba, Fortinet, Mellanox, and Huawei, ensuring access to the latest technology and innovations.

18,000+

global customers

600,000+

end-users

200+

countries & regions

23

years experience

500+

global vendors

100,000+

SKUs available

700+

local sales experts

50-98%

off global list prices

Contact Us

Email

High Connectivity: sales@router-switch.com

Expert Technical Support: ccie-support@router-switch.com

Cooperative Partnerships: ccie-support@router-switch.com

Phone

USA: +1-626-655-0998

Hong Kong: +852-25925389 / +852-25925411

Follow Us

Facebook: [@Routerswitchdotcom](https://www.facebook.com/Routerswitchdotcom)

LinkedIn: [Router-switch.com](https://www.linkedin.com/company/router-switch.com)

X: [@routerswitchcom](https://twitter.com/routerswitchcom)

Instagram: [@routerswitchdotcom](https://www.instagram.com/routerswitchdotcom)

Global Footprint

Global Warehouses & Service Centers Across Continents.



Global Branches

Headquarters (Hong Kong)

Rm 605, 6/F, Fa Yuen Comm Bldg, 75-77 Fa Yuen St, Mongkok, Kowloon, Hong Kong, China

USA Branch

3592 Rosemead Blvd, B #220, Rosemead, CA 91770, USA

Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK



References

[1] Hewlett Packard Enterprise. (2023). HPE Aruba Networking CX 6300 Switch Series Data Sheet. Retrieved from https://www.hpe.com/psnow/doc/PSN1014655722WWEN.pdf?jumpid=in_pdp-psnow-dds