Aruba JL667A

Datasheet

Product Overview

- Aruba's CX 6300 Series is a next-gen line of intelligent stackable switches built for fast, modern enterprise networks.

- It is targeted at organizations needing reliable access switches for office LAN, aggregation, and top-of-rack (ToR) data center use.

- Key hardware includes 1/10/25/50GbE uplinks, Aruba Gen7 ASIC high-speed architecture, and up to 10-unit stacking.

- Advanced features like the Aruba Network Analytics Engine and full programmability deliver unique visibility and automation benefits.

- Deployment and management are simplified with Aruba NetEdit and the Aruba CX Mobile App, making rollouts quick and error-free.

- Whether for classic campus, branch, or high-density IoT, the CX 6300 brings the scalable access and operational insight that modern businesses demand.

Product Highlights

- **Comprehensive Layer 3 Switching:** Supports BGP, EVPN, VXLAN, VRF, and OSPF with strong security and advanced QoS features.

- **Exceptional System Performance:** Offers 880 Gbps switching capacity, up to 660 Mpps throughput, and 200 Gbps stacking bandwidth for demanding traffic needs.

- **Flexible Model Options:** Provides models with multi-gig HPE Smart Rate, 60W PoE, SFP+ uplinks, and airflow options for diverse deployments.

- **Simplified Automation & Segmentation:** NetEdit automation, mobile app setup, and Dynamic Segmentation ensure secure, easy access for users and IoT.

Detailed Features

JL667A

Quote | Help

Component	Specification
Ethernet Ports	(48) 10/100/1000BASE-T
Uplink Ports	(4) 1/10/25/50G SFP
Memory & Processor	Quad Core ARM Cortex A72 @1.8GHz, 8GB DDR4, 32GB eMMC
Shared Packet Buffer	8MB
Switching Capacity	496 Gbps

Automation and Analytics

Built-in analytics deliver comprehensive real-time network visibility, enabling rapid troubleshooting and proactive health monitoring. The Aruba Network Analytics Engine intelligently inspects events impacting network performance, automating issue diagnosis to speed up problem resolution and improve service uptime for distributed IT teams.

Integrated Telemetry and Open APIs

Support for advanced telemetry, Python-based agents, and REST APIs simplifies operations, offering automated identification of network, system, and security issues. This integration helps IT teams gain deep network insight and streamline workflows, while enabling programmable automation for modern network environments.

Efficient State Data Storage

Arubas Time Series Database (TSDB) stores configuration and operational status for quick access during incidents, accelerating root cause analysis and recovery. This persistent data approach enables operators to track historical changes, audit compliance, and maintain complete network visibility at all times.

Automated Policy Conformance

Aruba NetEdit allows for rapid, network-wide policy adjustments while checking for configuration errors and enforcing standards post-deployment. This ensures large-scale networks remain aligned with organizational requirements and security policies, even after frequent updates or changes to the environment.

High-Performance Distributed Architecture

Fully distributed Aruba Gen7 ASICs deliver ultra-low latency, extensive packet buffering, and optimized energy consumption. The platform processes switching and routing at wire speed, meeting the needs of data-heavy applications and supporting seamless operation across dynamic workloads.

Scalable Virtual Stacking

Aruba Virtual Switching Framework (VSF) enables stacking of up to 10 switches over high-speed QSFP28 ports, supporting aggregate stacking throughput up to 200 Gbps per switch. This ensures scalable growth with simplified management, accommodating large campus or data center environments with ease.

Robust High-Density PoE

Select models provide high-density HPE Smart Rate multi-gigabit PoE with 60W per port and total supply up to 2880W, suitable for powering dense Wi-Fi 6 APs and IoT endpoints. This capability allows enterprises to deploy power-demanding devices confidently, consolidating connectivity for modern smart workplaces.

Dynamic User and Device Segmentation

Aruba Dynamic Segmentation applies adaptive, role-based policies based on user or device profile, streamlining security and optimizing traffic. This simplifies access control, fortifies network defense, and supports diverse multi-tenant or branch deployments with scalable Layer 2/3 segmentation schemes.

Technical Specifications

Product Specifications

Feature	Value
Product Number (SKU)	JL667A
Product Differentiator	The Aruba CX 6300 Switch Series is a modern, flexible and intelligent family of AOS-CX stackable switches ideal for enterprise access, aggregation and ToR data center deployments. This model has 24 SFP+ and 4 SFP56 ports.
Ethernet Ports	(48) 10/100/1000 BASE-T ports
Uplink Ports	(4) 1/10/25/50G SFP ports
Memory	8 GBytes DDR4, 32 GBytes eMMC
Processor	Quad Core ARM Cortex™ A72 @ 1.8GHz
Shared Packet Buffer Memory	8 MB
Latency - 1Gbps	2.28µSec

Feature	Value
Latency - 10Gbps	1.46µSec
Latency - 25Gbps	1.90µSec
Latency - 50Gbps	3.49µSec
Throughput	369 Mpps
Switching Capacity	496 Gbps
PoE Capability	Up to 2,880 W, depending on model and installed power supplies
Stacking Capabilities	Up to 10 switches per stack
Management Features	Aruba AirWave, Aruba Central Network Management, Aruba NetEdit, Command-line interface, SNMP v2c/v3, RMON
Input Voltage	100-120/200-240 VAC
Power Consumption	74 W (maximum)
Product Dimensions (metric)	4.4 x 44.2 x 32.7 cm
Weight	4.46 kg

Product Comparison

Feature	JL667A	R8R46A	C9300-24UX-A
Fixed Ports	48 × 10/100/1000BASE-T, 4 × 1/10/25/50G SFP	48 × 10/100/1000BASE-T, 4 × 1/10/25/50G SFP	24 × 1G/2.5G/5G/10G Multigigabit, 4 × 10G SFP+
Switching Capacity	496 Gbps	880 Gbps	480 Gbps
Forwarding Rate	369 Mpps	660 Mpps	357.14 Mpps
Maximum Stacking	10 units	10 units	8 units
PoE Capability	Up to 2,880 W	Up to 2,880 W	Up to 1,480 W
Management	Aruba AirWave, NetEdit, CLI, SNMP v2c/v3	Aruba AirWave, NetEdit, CLI, SNMP	Web UI, CLI, Netconf, SNMP
Layer 3 Routing	BGP, OSPF, EVPN, VXLAN, VRF	BGP, OSPF, EVPN, VXLAN, VRF	OSPF, EIGRP, BGP, ISIS
Form Factor	1RU Fixed	1RU Fixed	1RU Fixed
Best Application	Enterprise access, aggr., ToR data center	Enterprise access, campus core, ToR	High-speed access, multigig aggregation

Accessories

Category	Accessories
Included Accessories	- Power Cord - Rack Mount Kit - Quick Start Guide
Optional Accessories	- SFP+/SFP56 Transceivers - Redundant Power Supply - Cable Management Arm

Support & Warranty

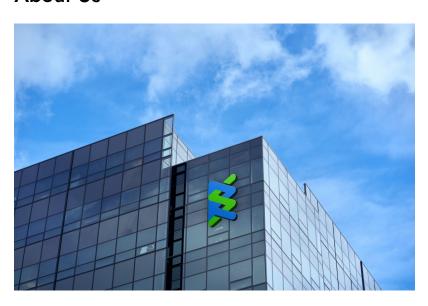| 24/7 Online Service	3-Year Premium Warranty	Professional Technical Support	100% Low Price Guarantee	100% Quality Assurance	100% Money Back Guarantee

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References

[1] Hewlett Packard Enterprise. (2023). Aruba CX 6300 Switch Series Technical Documentation. Retrieved from https://www.hpe.com/psnow/doc/a00085162enw