

Aruba JL666A

Datasheet

Product Overview

- Aruba's CX 6300 Series brings modern, intelligent stackable switching to today's enterprise and data center networks.
- The CX 6300 targets businesses needing flexible access, aggregation, or top-of-rack switching for growing digital demands.
- Key hardware includes Gen7 ASICs for non-blocking wire-speed, 24 Gigabit ports, and up to 10-member stacking for seamless scalability.
- Distinctive features include cloud-native design, programmable OS, and advanced Network Analytics Engine for proactive health checks.
- Multi-Edit Software and a mobile app make deployment and day-to-day operations fast and error-free.
- With support for high-density PoE and robust management, the CX 6300 delivers reliable performance for digital workspaces and IoT-driven environments.

Product Highlights

- **Powerful Layer 3 and Layer 2 Stacking:** Supports advanced L3 protocols including BGP, EVPN, VXLAN, and robust L2 stacking for flexible deployments.
- **High-Speed ASIC Performance:** Delivers up to 1760 Gbps switching and 1310 MPPS throughput for data-intensive operations.
- **MultiGigabit & High PoE Support:** Provides 1/2.5/5/10GbE Smart Rate MultiGig ports and up to 90W PoE for APs and IoT devices.
- **Unified Central Management:** Centralized management across LAN, WLAN, WAN, with Dynamic Segmentation for secure, simplified access.

Detailed Features



JL666A

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Component	Specification
Ports	24 × 10/100/1000 Base-T, 4 × 1G/10G/25G/50G SFP
PoE Support	IEEE 802.3af, 802.3at; up to 30W per port
Stacking	Up to 10 switches per stack
Uplink	4 × SFP supporting up to 50G
Console & OOBM	1 × USB-C Console, 1 × OOBM port



Distributed Architecture

Built on a fully distributed architecture with Gen7 ASICs, the CX 6300 ensures consistent wire-speed switching and routing. This foundation provides very low latency and high packet buffering abilities, which are essential for heavy data workloads and latency-sensitive applications within enterprise IT infrastructures.

High-Performance Front Plane Stacking

CX 6300 leverages Virtual Switching Framework (VSF) to seamlessly stack up to ten switches with a total stacking throughput reaching 400 Gbps per unit. This allows networks to scale quickly and maintain easy, centralized management while meeting bandwidth and deployment expansion needs.

Advanced PoE and Uplinks

Designed for IoT and wireless integration, the switch delivers up to 90W PoE per port with multiple power budget options. Its four built-in uplink ports support 10, 25, 50, and 100 GbE, making it adaptable for both current and future connectivity demands in highly converged digital environments.

Layer 2 Scalability with 6300L Series

For customers seeking cost-efficient, high-density access solutions, the CX 6300L Layer 2 models provide stackable connectivity with static routing capability. These models offer reliable, scalable access ideal for campus edge deployments that need balancing performance and budget control.

Real-Time Analytics and Automation

The integrated Network Analytics Engine (NAE) and Time Series Database offer real-time insights into network health. Automation features support rapid configuration changes, proactive troubleshooting, and consistent compliance, minimizing manual intervention and reducing operational risks.

Policy-Conscious and Unified Management

Supported by Aruba Central and Multi-Edit Software, administrators benefit from single-point management for wired and wireless networks. Policy enforcement, segmentation, and application recognition are streamlined, enhancing both security and user access experience.

Security and Application Awareness

Dynamic Segmentation, role-based access controls, and Layer 7 firewall features greatly improve user and device policy enforcement. VXLAN to VRF mapping, user roles, and switch-to-switch tunneling enable secure, multi-tenant support across distributed networks.

Integrated Data Center Solution Ready

The CX 6300 series integrates seamlessly with HPE compute, storage, and virtualization solutions. Its readiness for deployment with HPE ProLiant, SimpliVity, Nimble, and GreenLake streamlines IT service delivery, combining networking, compute, and storage for turnkey data center infrastructure.

Technical Specifications

Product Specifications

Feature	Value
Product Number	JL666A
Ports	24-port 10/100/1000 BaseT ports supporting up to 30W per port
Uplink Ports	4x 1G/10G/25G/50G* SFP ports
PoE Standards Supported	IEEE 802.3af, 802.3at
USB-C Console	1x USB-C Console Port
OOBM Port	1x OOBM port
USB Host Port	1x USB Type A Host port
Notes on 50G capability	*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.



Feature	Value
CPU	Quad Core Arm Cortex™ A72 @ 1.8GHz
Memory	8 GB DDR4
Storage	32 GB eMMC
Shared Packet Buffer	8 MB, 16 MB, or 32 MB, depending on model and configuration
Latency (1Gbps)	2.28µSec
Latency (10Gbps)	1.46µSec
Latency (25Gbps)	1.90µSec
Latency (50Gbps)	3.49µSec
Throughput	334 Mpps
Switching Capacity	448 Gbps
Max PoE Power	370W
Stacking Capability	Up to 10 switches per stack (CX 6300L switches only stack with other CX 6300L switches)
Management Features	HPE Aruba Networking Central Network Management, HPE Aruba Networking Management Software (AirWave), HPE Aruba Networking Switch Multi-Edit Software, Command-line interface, SNMP v2c/v3, RMON
Input Voltage	Fixed PSU: 100V□ 120V/200V□ 240V
Power Consumption (Idle)	52W
Power Consumption (100% Traffic)	67W
Dimensions (W x D x H)	4.4 x 44.2 x 32.7 cm
Weight	4.95 kg

Product Comparison

Feature	JL666A	C9300-24UXB-A=	Arista DCS-7150S-24-F
Fixed Ports	24 × 10/100/1000Base-T + 4 × 1G/10G/25G/50G SFP	24 × 1G/2.5G/5G/10G Multigig + 2 × 40G/100G Uplink	24 × 1G SFP + 4 × 1G/10G SFP+
Switching Capacity	448 Gbps	880 Gbps	480 Gbps
PoE Support	IEEE 802.3af/at, up to 30W per port	IEEE 802.3at, up to 60W UPOE per port	N/A



Feature	JL666A	C9300-24UXB-A=	Arista DCS-7150S-24-F
Stacking	Up to 10 switches (VSF)	Up to 8 switches (StackWise)	Up to 16 units (Virtual Chassis)
Management	Aruba Central, CLI, SNMP, AirWave	Cisco DNA Center, CLI, SNMP	CloudVision, CLI, SNMP
Routing Features	Static, BGP, OSPF, VRF, VXLAN	OSPF, BGP, VRF, VXLAN	OSPF, BGP, VRF, VXLAN
Power Supply	Fixed, AC 100-240V	Dual redundant, hot-swappable	Dual redundant, hot-swappable
Dimensions (WxDxH)	4.4 x 44.2 x 32.7 cm	4.4 x 44.5 x 38.6 cm	4.4 x 43.8 x 40.8 cm

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Adapter - Mounting Bracket - Quick Installation Guide
Optional Accessories	<ul style="list-style-type: none"> - SFP/SFP+ Transceiver - PoE Injector - Redundant Power Supply



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References

[1] Hewlett Packard Enterprise. (2023). HPE Aruba Networking CX 6300 Switch Series Product Overview and Technical Specifications. Retrieved from <https://www.hpe.com/psnow/doc/PSN1012183943IEEN>