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ARUBA 6300M 24-PORT 1GBE CLASS 4 POE AND 4-PORT SFP56 SWITCH (JL662A)

Fixed Port L3 Managed Ethernet Switches

WHAT'S NEW

- Stackable Layer 3 switches with BGP, EVPN, VXLAN, VRF, and OSPF with robust security and QoS.
- High performance 880 Gbps system switching capacity, 660 MPPS of system throughput and up to 200 Gbps stacking bandwidth.
- Series includes full density HPE Smart

OVERVIEW

The Aruba CX 6300 Switch Series is a modern, flexible, and intelligent family of AOS-CX stackable switches ideal for access, aggregation and data center top-of-rack (TOR) deployments. With a cloud-centric design that combines a fully programmable OS with the Aruba Network Analytics Engine, the Aruba CX 6300 extends industry-leading monitoring and troubleshooting capabilities to the access layer.

Rate (1/2.5/5GbE) multi-gigabit and 60W PoE models, SFP+ model and switch bundle with power-to-port airflow for data center 1GbE ToR and OOBM deployments.

- Built-in high speed 10GbE/25GbE/50GbE uplinks with intelligent monitoring and visibility via Aruba Network Analytics Engine.
- Aruba NetEdit support for automation, configuration and verification, and one touch deployment with the Aruba CX Mobile App.
- Aruba Dynamic Segmentation enables enhanced security and simple access for users and IoT.

Support of Aruba NetEdit and the Aruba CX Mobile App verify that configurations are flawless and easy to deploy.

A powerful Aruba Gen7 ASIC architecture delivers fast, non-blocking performance, meaning your network is ready for tomorrow's unpredictable demands. Aruba Virtual Stacking Framework (VSF) allows for stacking of up to 10 switches, providing scale and simplified management. This flexible series has built-in wirespeed 1/10/25/50GbE uplinks and supports high density IEEE 802.3bt high power PoE with HPE Smart Rate multi-gigabit Ethernet for high speed APs and IoT devices.

FEATURES

Automation and Analytics

The Aruba CX 6300 Switch Series delivers unparalleled visibility with built-in analytics for real-time monitoring and troubleshooting to help fix problems faster. The Aruba Network Analytics Engine (NAE) automatically interrogates and analyzes events that can impact network health.

Advanced telemetry and automation provide the ability to easily identify and troubleshoot network, system, application and security related issues easily, through the use of Python agents and REST APIs.

The Time Series Database (TSDB) stores configuration and operational state data, making it available to quickly resolve network issues.

Aruba NetEdit support provides automation that allows for rapid network-wide changes, and helps ensure policy conformance post network updates.

Performance and Power

The Aruba CX 6300 Switch Series uses a fully distributed architecture with Aruba Gen7 ASICs that deliver very low latency, increased packet buffering, and adaptive power consumption. All switching and routing are wire-speed to meet the demands of bandwidth-intensive applications.

Aruba Virtual Switching Framework (VSF) allows you to quickly grow your network using high performance front plane stacking. Four built-in QSFP28 ports support speeds of 1GbE, 10GbE, 25GbE, and 50GbE for a total of up to 200 Gbps of stacking throughput per switch.

Deploy wireless access points and IoT devices with Aruba CX 6300 models that offer high density HPE Smart Rate multi-gigabit Ethernet with 60W PoE on every port for a total of 2880W of PoE.

48 port switch bundle with power-to-port airflow designed for top-of-rack (TOR) and out-of-band-management (OOBM) data center deployments.

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Smarter Segmentation

The Aruba CX 6300 Switch Series supports Aruba Dynamic Segmentation that automatically applies and enforces user, device, and application-aware policies on Aruba wired and wireless infrastructures.

Automated device profiling, role-based access control, and Layer 7 firewall features deliver enhanced visibility and performance for a better overall experience for both IT and end-users alike.

Switch-to-switch tunnels enable scalable multi-tenancy support with VXLAN to VRF mapping, while allowing policy application via user roles.

Technical specifications

Aruba 6300M 24-port 1GbE Class 4 PoE and 4-port SFP56 Switch

Product Number (SKU)	JL662A
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. Supports Class 4 PoE.
Ports	(24) 10/100/1000 BASE-T PoE+ ports supporting up to 30W per port, (4) 1/10/25/50G SFP ports
Memory and processor	Quad Core ARM Cortex™ A72 @ 1.8GHz, 8 GBytes DDR4 32 GBytes eMMC 8 MB Shared Packet Buffer Memory
Latency	1Gbps: 2.28µSec, 10Gbps: 1.46µSec, 25Gbps: 1.90µSec, 50Gbps: 3.49µSec
Throughput	334 Mpps
Switching capacity	448 Gbps
PoE capability	24 ports of full redundancy PoE+ power with two 1600W JL670A PSUs
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	110-120/208-240VAC (JL670A PSU), 100-240V AC (JL086A and JL087A PSU)
Power Consumption	74-81 W (maximum, depending on power supply)
Product Dimensions (metric)	4.4 x 44.2 x 38.5 cm
Weight	5.00 kg

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ARUBA GLOBAL SERVICES

Aruba Global Services simplifies and accelerates the network technology lifecycle, enabling your network to scale with better predictability and cost-effectiveness. Whether you operate your own network and need to improve your IT efficiencies or you want to offload some of the burden, we have the services you need to reach your goals.

Learn more about what Aruba Global Services has to offer at: arubanetworks.com/services/

Support Services from Aruba

Support services reduce complexity and increase your team's productivity, ensuring you keep pace with technology advances and software releases, and obtain break-fix support required to keep your network running. Access to premium services means you have the right help at the right time.

Professional Services from Aruba

With deep intellectual capital and purpose-built tools, our team delivers a range of standard and custom professional services designed to accelerate your value from Aruba technology.

QuickStart Services include:

- Planning, audit and assessment
- Architecture review and design
- Deployment, migration, and knowledge transfer

Proactive Engineering Services include:

- Intelligent Operations
- Customer Experience Management
- Network optimization

Our **Education Services** allow your team to come up to speed quickly.

Aruba Network as-a-Service (NaaS)

Our NaaS solution, Aruba Managed Connectivity Services, part of the HPE GreenLake services family, simplifies network operations, accelerates equipment handling, and increases the value of your Aruba network. If you need expert guidance and automation-based operations for your team, please explore the NaaS approach from Aruba here.

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