

HPE Aruba Networking CX 6300F 24-port 1GbE and 4-port SFP56 Switch (JL668A)



What's new

- Stackable Layer 3 switches with BGP, EVPN, VXLAN, VRF, and OSPF with robust security and QoS. Now supporting MACsec 256, PTP, AVB and LRM.
- High performance 880 to 1760 Gbps system switching capacity, 660 to 1310 MPPS of system throughput and up to 200 to 400 Gbps stacking bandwidth.
- Series includes full density HPE Smart Rate (1/2.5/5GbE) multi-gigabit and up to 90W PoE, SFP+ model and switch bundle with power-to-port airflow for data center 1GbE ToR and OOBM deployments.
- Built-in high speed 10/25/40/50/100GbEGbE uplinks (50GbE for DAC connectivity only) with intelligent monitoring and

Overview

The HPE Aruba Networking 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 HPE Aruba Networking Analytics Engine, the CX 6300 extends industry-leading monitoring and troubleshooting capabilities to the access layer. Support of HPE ANW NetEdit and the HPE ANW CX Mobile App verify that configurations are flawless and easy to deploy.

A powerful HPE Aruba Gen7 ASIC architecture delivers fast, non-blocking performance, meaning your network is ready for tomorrow's unpredictable demands. HPE ANW Virtual Stacking Framework (VSF) allows for stacking of up to 10 switches, providing scale and simplified management. This flexible series has built-in highspeed uplinks and supports high

visibility via Aruba Network Analytics Engine.

- Manage via single pane of glass with HPE Aruba Networking Central across wired, wireless, and WAN Dynamic Segmentation enables enhanced security and simple access for users and IoT.
- Data Center Networking Solution SKU (R9F63A) for HPE integrated and mixed use HPE Compute, HPE Storage and HPE Aruba Networking configuration and deployments.

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 HPE Aruba Networking CX 6300 Switch Series delivers unparalleled visibility with built-in analytics for real-time monitoring and troubleshooting to help fix problems faster. The HPE ANW 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.

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

Performance and Power

The HPE Aruba Networking CX 6300 Switch Series uses a fully distributed architecture with HPE 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.

HPE Aruba Networking 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 1/10/25/50GbE (50GbE for DAC connectivity only) for a total of up to 200 Gbps of stacking throughput per switch.

The S0E91A switch model also supports QSFP28 uplink speeds of 40 GbE and 100 GbE for up to 400 Gbps of stacking throughput.

Deploy wireless access points and IoT devices with HPE Aruba Networking CX 6300 models that offer high density HPE Smart Rate multi-gigabit Ethernet with 90W 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.

Smarter Segmentation

The HPE Aruba Networking 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.

The HPE Aruba Networking Data Center Networking Solution

HPE Aruba Networking offer customers highly differentiated pre-engineered IT infrastructure solutions that span a wide variety HPE Compute, HPE Storage, HPE Networking that span virtualization, vSAN, HCI, HPC, MCS, Microsoft, SAP HANA, Vmware, Nutanix application and IaaS service offerings.

HPE Aruba Networking 10/25 and 40/100G CX switches can be deployed as part of these solutions and is often designed into these integrated solutions along with HPE ProLiant DL/DX servers, HPE SimpliVity, Nimble, Synergy, Cray Shasta, Cray ClusterStor, Superdome Flex and HPE GreenLake.

These ready-to-deploy, integrated IT data center solutions help simplify and speed IT service delivery while reducing the time, risk, and expertise needed to deploy complex solutions.

Use these new tracking SKUs (R9FXXX) when Aruba CX switches are included in HPE integrated and mixed compute, storage and networking configuration and deployments.

Technical specifications

HPE Aruba Networking CX 6300F 24-port 1GbE and 4-port SFP56 Switch

Product Number	JL668A
Differentiator	Aruba 6300F 24-port 1GbE and 4-port SFP56 Switch Includes Non-Pluggable, Internal PSU behind sheetmetal Chassis Frame Includes Non-Pluggable, Internal Fans behind sheetmetal Chassis Frame Min=0 \ Max = 4 SFP/SFP+/SFP28/SFP56 1/10/25/50G Transceiver 1U - Height
Ports	(24) 10/100/1000 BASE-T ports, (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
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	63 W (maximum)
Product dimensions	4.4 x 44.2 x 32.7 cm
Weight	4.36 kg

For additional technical information, available models and options, please reference the QuickSpecs

HPE Aruba Networking Services

HPE Aruba Networking services simplify and accelerate 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 HPE Services - Aruba Networking has to offer at: arubanetworks.com/services/



Support Services from HPE Aruba Networking

Our support portfolio provides the essential support elements as well as proactive and preventive features to help you improve your team's productivity and get the most from your network. Our support customers benefit from faster issue resolution, simplified operations and efficiencies, and reduced network issues.

Professional Services from HPE Aruba Networking

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 HPE Aruba Networking technology.

Project based services

include:

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

Annual subscription services include:

- Network optimization
- Intelligent Operations
- Customer Experience Management

Make the right purchase decision. Contact our presales specialists.

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Chat now (sales)



Share now



Get updates

Our [Education Services](#) allow your team to come up to speed quickly.

HPE Aruba Networking Network as-a-Service (NaaS)

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

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

Image may differ from the actual product [PSN1012183950WWEN](#), February, 2024.