

HPE Aruba Networking CX 6300 Switch Series

HPE Aruba Networking CX 6300M 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL661A)



What's new

- The HPE Aruba Networking CX 6300 Switch Series is a family of stackable Layer 3 switches with BGP, EVPN, VXLAN, VRF, OSPF routing, robust quality of service (QoS), MACsec 256, PTP, AVB and LRM [1]
- Three stackable Layer 2-only CX 6300L switches with HPE Smart Rate multi-gigabit and MACsec 256 encryption are available for high performance access deployments
- Powerful 7th Gen ASIC architecture provides the CX 6300 series with 880 to 1760 Gbps system switching capacity, 660 to 1310 Mpps of system throughput and up to 200 to 400 Gbps stacking bandwidth
- High availability with choice between 2 to 10-member Virtual Switching Framework (VSF) stacking for scale, or 2-member Virtual Switching Extension (VSX) cluster for active-active redundancy

Overview

The HPE Aruba Networking CX 6300 Switch Series is a modern, flexible, and intelligent family of stackable switches ideal for access, aggregation, and data center top-of-rack (ToR). Featuring a cloud-native design and fully programmable operating system (OS). The CX 6300 delivers advanced monitoring and troubleshooting with capabilities like a real-time network analytics engine, HPE Aruba Networking Switch Multi-Edit Software and flexible deployment options to implement and validate network configurations.

A powerful Gen7 ASIC architecture delivers fast, non-blocking performance for AI, Wi-Fi 7, and Internet of Things (IoT) requirements. HPE Aruba Networking Virtual Stacking Framework (VSF) allows for stacking of up to 10 switches, providing scale and simplified management. This flexible series has built-in high-speed uplinks and supports high-density IEEE 802.3bt high-power PoE with HPE Smart Rate multi-gigabit Ethernet.

- Options include 24 to 48-port of HPE Smart Rate multi-gigabit (1/2.5/5/10GbE) and 1GbE fiber, supporting up to 90W 802.11bt PoE, all with telemetry and automation via the CX Network Analytics Engine
- Manage through single point of control with HPE Aruba Networking Central across wired, wireless, and WAN. Dynamic segmentation enables enhanced security and simple access for users and IoT

Features

AI-ready performance and power

The HPE Aruba Networking CX 6300 Switch Series is a wire-speed solution that uses a fully distributed architecture with Gen7 ASICs that deliver low latency, increased packet buffering, and intelligent power consumption for AI, Wi-Fi 7, and Internet of Things (IoT) requirements.

HPE Aruba Networking Virtual Switching Framework (VSF) allows you to quickly grow your network using high performance front plane stacking. Four built-in uplinks support speeds of up to 10, 25, 50, and 100GbE for a total of 200 to 400 Gbps of stacking throughput per switch.

HPE Aruba Networking Virtual Switching Extension (VSX) and an inter-switch link (ISL) provides for a high availability solution that maintains state synchronization and an independent control plane across a 2-member active-active switch design [2].

HPE Smart Rate multi-gigabit Ethernet delivers adaptive speed options for Wi-Fi, Internet of Things (IoT), and other clients, alongside Class 4 (30W), Class 6 (60W), and Class 8 (90W) PoE on each port (720W, 1440W, and 2880W maximum PoE budget options).

Additional features include a hibernation mode that enables CX 6300 and CX 6300L (Layer 2-only) switches to schedule downtime to conserve energy. Note: CX 6300L stackable switches are Layer 2-only, balancing scalability, high-capacity, and cost-effective connectivity.

Automation and analytics

The HPE Aruba Networking CX 6300 Switch Series delivers unparalleled visibility with built-in analytics for real-time monitoring and a time series database (TSDB) that stores configuration and operational state data, making it available to quickly resolve network issues.

HPE Aruba Networking Central provides secure, AI-native full-stack network management and operations to optimize performance, accelerate troubleshooting, and unify wired networks with Wi-Fi, wide area networks, and more.

HPE Aruba Networking CX Network Analytics Engine (NAE) provides real-time insights and actions, analyzing events that can impact network health and even mitigating problems directly through quarantining to support network, application, system and security operations.

HPE Aruba Networking Switch Multi-Edit Software introduces automation that allows for rapid network-wide changes and helps ensure policy conformance post network updates. Intelligent capabilities include search, edit, validation (including conformance checking), deployment, and audit features.

Import switch information into HPE Aruba Networking Switch Multi-Edit Software for simplified configuration management and to continual conformance validation.

Full stack management and security

The HPE Aruba Networking CX 6300 Switch Series is supported on HPE Aruba Networking Central for single point of control management that delivers enhanced network visibility and an expanded AI toolset, addressing the scale and demands of the most mission-critical environments.

Dynamic segmentation that automatically applies and enforces user, device, and application-aware policies on HPE Aruba Networking wired and wireless infrastructures.

Automated device profiling, role-based access control, and Layer 7 firewall features deliver enhanced visibility and performance for a better end-user experience and streamlined IT operations. Application recognition and control are available through CX Advanced Feature Pack [1].

Switch-to-switch tunnels enable scalable multi-tenancy support with Virtual Extensible Local-Area Networks (VXLAN) to VRF mapping, while allowing policy application through user roles [1].

Reduce manual IT operation tasks around initial deployment or on-going configuration changes to accommodate adds, moves, and changes with colorless ports using local user roles and local MAC authentication (LMA).

Deploy in data center topologies

HPE offers 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.

The 10/25 and 40/100 G CX switches can be deployed as part of an HPE integrated and mixed compute, storage and networking configuration and deployments.

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.

Technical specifications	HPE Aruba Networking CX 6300M 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch
Product Number	JL661A
Differentiator	Class 4 PoE/PoE+
Power consumption	With JL086A PSU: Idle: 70W 100% Traffic Rate: 90W With JL087A PSU: Idle: 71W 100% Traffic Rate: 88W With JL670A PSU: Idle: 73W 100% Traffic Rate: 96W
Input voltage	JL670A PSU: 110V–120V/208V–240V JL086A PSU: 100V–240V JL087A PSU: 110V–240V
Ports	48 x 10/100/1000 BaseT PoE+ ports supporting up to 30W per port 4 x 1G/10G/25G/50G [4] SFP ports Supports PoE standards IEEE 802.3af, 802.3at 1 x USB-C console port 1 x USB Type-A host port 1 x OOBM port
Latency	1 Gbps: 2.28 μ s 10 Gbps: 1.46 μ s 25 Gbps: 1.90 μ s 50 Gbps: 3.49 μ s
Switching capacity	496 Gbps
Stacking capabilities	Up to 10-members per stack. Note: CX 6300L switches only stack with other CX 6300L switches
Throughput	369 Mpps
Memory and processor	CPU: Dual-core Arm® Cortex-A9 @ 1.8GHz Memory: 8 GB DDR4, 32 GB eMMC Flash: 8 MB, 16 MB, or 32 MB, depending on model and configuration
Power supply	2 field-replaceable, hot-swappable power supply slots 1 minimum power supply required (ordered separately). Supported PSUs JL086A, JL087A and JL670A.
PoE capability	Maximum PoE power: 1440W
Management features	Management flexibility with support for HPE Aruba Networking Central, easy-to-use Web GUI, CLI, and HPE Aruba Networking Switch Multi-Edit Software
Operating temperature	32°F to 113°F (0°C to 45°C) up to 5000 ft. Derate -1°C for every 1000 ft from 5000 ft to 10000 ft. Can support excursion to 131°F (55°C) for short periods of time [3].

Technical specifications	HPE Aruba Networking CX 6300M 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch
Weight	5.16 kg
Product dimensions	4.4 x 44.2 x 38.5 cm
Warranty	Limited lifetime warranty. See warranty details.

[1] Features not supported on CX 6300L switches (S3L75A, S3L76A, S3L77A)

[2] The simultaneous use of HPE Aruba Networking Virtual Switching Framework stacking and its cluster is not supported. A switch may either be its member or an HPE Aruba Networking Virtual Switching Extension cluster.

[3] No more than 96 consecutive hours and no more than 360 hours total (15 days) in 1 year.

[4] 50 G capability is for use with 50 G DACs for both interconnect and VSF stacking. 50 G transceivers and DACs are not supported on SOE91A and SOX44A switch models, which requires QSFP to SFP56 DAC cable for VSF stacking with other CX 6300F and CX 6300 M switch models only. VSF stacking not supported on 1 G ports.

[5] 100 M use on HPE Smart Rate ports is limited to full duplex only. For 100 M half duplex support, use 1 G ports on other models.

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.

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Support Services

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.

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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.

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- Architecture review and design
- Deployment, migration, and knowledge transfer

Annual subscription services include:

- Network optimization
- Intelligent Operations
- Customer Experience Management

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

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[For additional technical information, available models and options, please reference the QuickSpecs](#)

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