

# HPE Aruba Networking CX 6300 Switch Series



## Key benefits

- Stackable Layer 3 switches with BGP, EVPN, VXLAN, VRF, and OSPF with robust security and QoS
- High performance up to 1760 Gbps switching capacity, up to 1310 MPPS of throughput and up to 400 Gbps stacking bandwidth
- Compact 1U switches with full density HPE Smart Rate (1G/2.5G/5G/10GbE) multi-gigabit, up to 90W PoE (Class 8) and 10G LRM SFP+ available on select models

<sup>1</sup> 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.

## Product overview

The HPE Aruba Networking CX 6300 Switch Series is a modern, flexible, and intelligent family of stackable switches ideal for enterprise network access, aggregation, core, and data center top of rack (ToR) deployments. Created for game-changing operational efficiency with built-in security and resiliency, the 6300 switches provide the foundation for high-performance networks supporting IoT, mobile and cloud applications.

Built from the ground up with a combination of cutting-edge hardware, software and analytics and automation tools, the stackable 6300 switches are part of the HPE Aruba Networking CX switching portfolio, designed for today's enterprise campus, branch, and data center networks.

By combining a modern, fully programmable OS with the HPE Aruba Networking Network Analytics Engine, the 6300 switches provide industry leading monitoring and troubleshooting capabilities for the access layer.

A powerful HPE Aruba Networking Gen7 ASIC architecture delivers performance and robust feature support with flexible programmability for tomorrow's applications. The 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 wirespeed 1/10/25/50GbE<sup>1</sup> and 40/100GbE uplinks and supports high density IEEE 802.3bt high power PoE. HPE Smart Rate multi-gigabit Ethernet paves the way for high speed access points and IoT devices by delivering fast connectivity and high power PoE using existing cabling.

**Key benefits (continued)**

- Power-to-port switch bundle with back-to-front airflow ideal for data center 1GbE ToR and OOBM deployments
- Three stackable, high-performance Layer 2-only CX 6300L access switches with HPE Smart Rate Multi-Gigabit and MACsec encryption
- Built-in high speed 1/10/25/40/50/100GbE uplinks<sup>1</sup>
- 50GbE connectivity with QSFP to SFP56 DAC and 50G DACs<sup>1</sup>
- Intelligent monitoring, visibility, and remediation with HPE Aruba Networking Network Analytics Engine
- Manage via single pane of glass with HPE Aruba Networking Central across wired, wireless, and WAN
- HPE Aruba Networking Switch Multi-Edit Software support for automated configuration and verification
- HPE Aruba Networking Dynamic Segmentation enables secure and simple access for users and IoT

Modular models offer redundancy and PoE customization with hot-swappable power supplies and fans. Back-to-front airflow available in switch bundle for hot-cold aisle top-of-rack (TOR) and out-of-band-management (OOBM) data center deployments.

Dynamic Segmentation extends HPE Aruba Networking's Foundational wireless role-based policy capability to HPE Aruba Networking wired switches. This means that the same security, user experience, and simplified IT management can be enjoyed throughout the network. Regardless of how users and IoT devices connect, consistent policies are enforced across wired and wireless networks, keeping traffic secure and separate.

**Product differentiators****AOS-CX—a modern operating system**

The HPE Aruba Networking CX 6300 Switch Series is based on AOS-CX, a modern, database-driven operating system that automates and simplifies many critical and complex network tasks. A built-in time series database enables customers and developers to utilize software scripts for historical troubleshooting, as well as analysis of past trends. This helps predict and avoid future problems due to scale, security, and performance bottlenecks. Because AOS-CX is built on a modular architecture with a stateful database, our operating system provides the following unique capabilities:

- Easy access to all network state information allows unique visibility and analytics
- REST APIs and Python scripting for fine-grained programmability of network tasks
- A micro-services architecture that enables full integration with other workflow systems and services
- Continuous telemetry data with WebSocket subscriptions for event driven automation
- Continual state synchronization that provides superior fault tolerance and high availability

- All software processes communicate with the database rather than each other, ensuring near real-time state and resiliency and allowing individual software modules to be independently upgraded for higher availability

Every CX switch includes AOS-CX at no cost and with an active, perpetual set of native features which has everything needed to deploy, connect, and troubleshoot an enterprise network, including:

- Network Analytics Engine (NAE)
- Dynamic Segmentation
- Switch Stacking
- High Availability and Resiliency
- Quality of Service (QoS)
- Layer 2 Switching
- Layer 3 Services and Routing
- IP Multicast
- Network Security
- Support for HPE Aruba Networking Switch Multi-Edit Software

In addition to the native features available in AOS-CX, we offer an optional, term-based HPE Aruba Networking CX Advanced Feature Pack that unlocks visibility and advanced security use cases.

For more information, read the [HPE Aruba Networking CX Feature Pack Ordering Guide](#).

**HPE Aruba Networking Central—unified single pane of glass management**

HPE Aruba Networking Central is an AI-powered solution that simplifies IT operations, improves agility, and reduces costs by unifying management of all network infrastructure. Built for enterprise-grade resiliency and security, while simple enough for smaller businesses with limited IT staff, HPE Aruba Networking Central is your single point of visibility and control that spans the entire network—from branch to data center, wired and wireless LAN to WAN.

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Available as a cloud-based or on-premises solution, HPE Aruba Networking Central is designed to simplify Day 0 through Day 2 operations with streamlined workflows for tasks such as virtual switch stack creation, automated monitoring using AI-powered insights and NAE, as well as a unified view of all devices and users, both wired and wireless. Comprehensive switch management capabilities include configuration, on-boarding, monitoring, troubleshooting, and reporting.

An HPE Aruba Networking Central Foundational subscription enables comprehensive switch management capabilities that include configuration, onboarding, monitoring, troubleshooting, and reporting. An HPE Aruba Networking Central Advanced subscription expands these capabilities with premium security and AIOps, including the HPE Aruba Networking Central NetConductor Fabric Wizard and Policy Manager to enable dynamic segmentation and distributed enforcement at a global scale.

Additionally, an HPE Aruba Networking Central Advanced subscription enables the CX Advanced Feature Pack so there is no need to separately purchase a CX Advanced Feature Pack. This streamlines operational efficiency, reducing the need for your IT team to keep track of multiple subscriptions, active terms, and renewal dates.

For more information on HPE Aruba Networking Central subscriptions, see the [HPE Aruba Networking Central SaaS Subscription Ordering Guide](#).

### **HPE Aruba Networking Network Analytics Engine—advanced monitoring and diagnostics**

For enhanced visibility and troubleshooting, HPE Aruba Networking's Network Analytics Engine (NAE) automatically monitors 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, CLI-based agents, CLI-based agents and REST APIs.

The Time Series Database (TSDB) stores configuration and operational state data, making it available to quickly resolve network issues. The data may also be used to analyze trends, identify anomalies, and predict future capacity requirements.

HPE Aruba Networking Central uses NAE and agents to deliver switch monitoring, analytics, and enhanced troubleshooting for wired assurance. HPE Aruba Networking Switch Multi-Edit Software and third-party tools such as ServiceNow and Slack provide the intelligence to integrate NAE alerts into IT service management processes, speeding problem resolution.

### **HPE Aruba Networking Switch Multi-Edit Software—automated switch configuration and management**

The HPE Aruba Networking CX portfolio empowers IT teams to orchestrate multiple switch configuration changes for smooth end-to-end service rollouts. HPE Aruba Networking Switch Multi-Edit Software introduces automation that allows for rapid network-wide changes, and ensures policy conformance post network updates. Intelligent capabilities include search, edit, validation (including conformance checking), deployment, and audit features. Capabilities include:

- Centralized configuration with validation for consistency and compliance
- Time savings via simultaneous viewing and editing of multiple configurations
- Customized validation tests for corporate compliance and network change analysis
- Automated large-scale configuration deployment without programming
- Network health and topology visibility via HPE Aruba Networking NAE integration

**Note:** A separate software license is required to use HPE Aruba Networking Switch Multi-Edit Software.

### **HPE Aruba Networking CX Mobile App—true deployment convenience**

An easy to use mobile app simplifies connecting and managing HPE Aruba Networking CX 6300 switches for any size project. Switch information can also be imported into HPE Aruba Networking Switch Multi-Edit Software for simplified configuration management and to continuously validate the conformance of configurations anywhere in the network. The HPE Aruba Networking CX Mobile App is available for download.

### **HPE Aruba Networking ASICs—programmable innovation**

Based on over 30 years of continuous investment, HPE Aruba Networking's ASICs create the basis for innovative and agile software feature advancements, unparalleled performance, and deep visibility. These programmable ASICs are purpose-built to allow for a tighter integration of switch hardware and software within campus and data center architectures to optimize performance and capacity. Virtual Output Queuing (VOQ) isolates congestion, prevents Head of Line Blocking (HOLB), and allows full line rate on outgoing (egress) ports. Flexible ASIC resources enable HPE Aruba Networking's NAE solution to inspect all data, which allows for industry-leading analytics capabilities. The HPE Aruba Networking CX 6300 is based on the HPE Aruba Networking Gen7 ASIC architecture.

### **HPE Aruba Networking Dynamic Segmentation—campus and branch fabric**

The HPE Aruba Networking Dynamic Segmentation solution enables seamless mobility, consistent policy enforcement, and automated configurations for wired and wireless clients across networks of all sizes. It unifies role-based access and policy enforcement across LAN, WLAN, and SD-WAN networks with centralized policy definition and dedicated enforcement points, ensuring that users and devices can only communicate with destinations consistent with their role—keeping traffic secure and separate.



Dynamic Segmentation is based on establishing least privilege access to IT resources by segmenting traffic based on identity, a fundamental concept of both Zero Trust and SASE frameworks where trust is based on roles and policies, not on where and how a user or device connects.

This innovation begins with colorless ports and role-based micro-segmentation technologies. Colorless ports allow wired clients to connect to any switch port, with the configuration automated using RADIUS-based access control. This eliminates the need for manual on-boarding of clients, including IoT devices, onto the network.

Role-based micro-segmentation delivers benefits of reduced subnet and VLAN sprawl, simplified policy definition, and scalable policy enforcement by introducing the concept of client user roles. Independent of network constructs such as VLANs and VRFs, clients can be grouped into a user role based on their identity, allowing the colorless ports technology to be extended to the centralized overlay fabric, as clients are on-boarded with automatic tunnel creation based on the associated user roles policy. The user roles policy offers the choice between micro-segmentation using centralized and unified policy enforcement for wireless and wired traffic with Layer 7 stateful firewall on gateways or a distributed approach with a Layer 4 role-role ACL on switches.

Dynamic Segmentation provides scale and flexibility in network design by allowing the stretching of VLANs and subnets across the entire network with an EVPN/VXLAN-based distributed overlay fabric. Fabric overlays use VXLAN or VXLAN-GBP tunnels on the data plane and provide the option of a Multi-Protocol BGP EVPN control plane for large deployments, or a static Layer 2 control plane for simplified deployments.

### Mobility and IoT performance

The HPE Aruba Networking CX 6300 Switch Series uses a fully distributed architecture that utilizes the HPE Aruba Networking Gen7 ASICs. This ensures that our switches offer 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 today and in the future. Each switch includes the following:

- Up to 1760 Gbps in non-blocking bandwidth and up to 1310 Mpps for forwarding
- 1/10/25/40/50/100G uplinks<sup>1</sup> and large TCAM sizes ideal for mobility and IoT deployments in large campuses with several thousand clients
- Selectable queue configurations that allow for increased performance by defining a number of queues and associated memory buffering to best meet the requirements of network applications

### VSF Stacking—scale and simplicity

The HPE Aruba Networking Virtual Switching Framework (VSF) allows you to quickly grow your network using high performance front plane stacking. Additional features include:

- Support for up to 10 switches (or members) in a stack via chain or ring topology
- Flexibility to create stacks that span longer distances such as hundreds of meters across campuses to kilometers between sites using long-range 10GbE/25GbE transceivers
- Flexibility to mix both modular and fixed HPE Aruba Networking 6300 models within a single stack to meet your deployment requirements
- Simplified configuration and management as the switches act as a single chassis when stacked
- High availability by design using VSF in-service software upgrades for ISSU orchestration and no downtime or restart when upgrading within the same major release (requires at least a 2 member VSF stack)
- The HPE Aruba Networking CX Mobile app provides support for a validated stack deployment that ensure that all stack links and uplinks are connected properly

### An HPE Aruba Networking CX 6300 switch for any enterprise environment

Whether in the branch office or a small to large enterprise environment, you can choose from 24 and 48 port 1U models. Each switch includes four high-speed built-in uplinks that auto-negotiate between 1 GbE, 10 GbE, 25 GbE, 40 GbE and 100GbE<sup>1</sup> to deliver non-blocking performance. Fixed format (F) models include built-in power supplies. The modular (M) models have rear slots for hot swappable power supplies that allow you to customize your PoE requirements, and its fans are field replaceable. Additional highlights:

- Compact 1U models support:
  - 24 and 48 ports of HPE Smart Rate Multi-gigabit Ethernet IEEE 802.3bz (100M2/1GbE/2.5GbE/5GbE/10GbE) supporting high power IEEE 802.3bt Class 6 (60W) to Class 8 (90W)
  - High density 24 port SFP+ model which is ideal for aggregation
  - 1/10/25/40/50/100GbE uplink<sup>1</sup> port connectivity
- HPE Smart Rate Multi-Gigabit (IEEE 802.3bz) Ethernet supports high speed wireless access points
- For deployments that need higher port and PoE density, the 6300 supports up to 90W of PoE in a 48-port switch for a total of 2880W of PoE
- Industry standard IEEE 802.3bt High Power PoE support (Class 8) provides up to 90W to support of the latest IoT devices and APs. PoE support for IEEE 802.3at Power over Ethernet (PoE+) provides up to 30W per port as well as any IEEE 802.3af-compliant end device
- Support for pre-standard PoE detection provides power to legacy PoE devices
- High availability with always-on PoE that supplies PoE power even during scheduled reboots and firmware upgrades
- Quick PoE supplies PoE power to powered devices as soon as the switch is plugged into AC power so device can initialize at same time as switch OS boots up.

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- Support for Energy Efficient Ethernet IEEE 802.3az reduces power consumption during periods of low network traffic.
- Support for top-of-rack (ToR) and out-of-band management (OOBM) data center deployments with CX 6300M Power-to-port bundle that delivers required power-to-port (back to front) airflow.
- Auto-MDIX provides automatic adjustments for straight-through or crossover cables on all 10M/100M/1G, and Smart Rate ports
- Unsupported Transceiver Mode (UTM) allows to insert and enable all unsupported 1/10/25/40/50/100GbE transceivers and cables. Note that there is no warranty nor support for the transceiver/cable when this feature is used
- IPv6 capabilities include:
  - IPv6 host enables switches to be managed in an IPv6 network
  - Dual stack (IPv4 and IPv6) transitions from IPv4 to IPv6, supporting connectivity for both protocols
  - MLD snooping forwards IPv6 multicast traffic to the appropriate interface
  - IPv6 ACL/QoS supports ACL and QoS for IPv6 network traffic
  - IPv6 routing supports Static and OSPFv3 protocols
  - Security provides RA guard, DHCPv6 protection, dynamic IPv6 lockdown, ND snooping, IPv6 Destination Guard, IPv6 DHCP Guard, and IPv6 Router Advertisement Guard
- Jumbo frames allow for high-performance backups and disaster-recovery systems; provides a maximum frame size of 9198 bytes
- Packet storm protection against broadcast and multicast storms with user-defined thresholds
- Smart link enables simple, fast converging link redundancy and load balancing with dual uplinks avoiding Spanning Tree complexities

### CX 6300L layer 2 switches

Three CX 6300L switch models are available for customers needing scalability, high-capacity, and cost-effective connectivity in the access layer. Features include:

- 24 ports of SR10 (1G/2.5G/5G/10G) or 48 ports of SR5 (1G/2.5G/5G) HPE Smart Rate Multi-gigabit Ethernet downlinks that support high power IEEE 802.3bt Class 6 (60W) to Class 8 (90W) PoE and MACsec 256 data link layer encryption
- Scalability with VSF front-plane stacking up to 10 CX 6300L switch members (does not stack with CX 6300F or CX 6300M switches)
- Layer 2 switching with support for IPv4 based static routing, quality of service (QoS), IPv4 access control lists (ACL), and User-Based Tunneling for Dynamic Segmentation<sup>3</sup>
- Modular, hot-swappable power supplies and fans that allow you to customize for PoE requirements and field replacement needs

### CX 6300M bundle for data centers

The CX 6300M 48 port power-to-port switch bundle serves as a top of rack (ToR) switch for 1GbE servers and also as a 1GbE out-of-band management (OOBM) switch for data centers server racks. Features include:

- Power-to-port bundle (JL762A) includes 48 port 1GbE switch with 2 x Fan Trays (JL761A) and 1 x power supply (JL760A)
- Back (power-side) to front (1GbE port side) airflow
- 1/10/25/50GbE<sup>1</sup> SFP uplinks

### High availability and resiliency

To ensure a high degree of up-time we offer high availability and multicast features needed for a full Layer 3 deployment at access and aggregation such as PBR, BFD, MSDP, BSR, and IP SLA without the need for software licenses. This includes:

- Hot Swappable Power Supplies available in the 6300 “M” models

- Provides N+1 and N+N redundancy for high reliability in the event of power line or supply failures
- Optional secondary power supplies to increase the total available PoE power
- Fixed power supplies in 6300 “F” models
- Bidirectional Forward Detection (BFD) enables sub-second failure detection for rapid routing protocol re-balancing, supporting both IPV4 and IPV6 networks
- Virtual Router Redundancy Protocol (VRRP) allows groups of two routers to dynamically create highly available routed environments in IPV4 and IPV6 networks
- Uni-directional Link Detection (UDLD) to monitor link connectivity and shut down ports at both ends if uni-directional traffic is detected, preventing loops in STP-based networks
- IEEE 802.3ad LACP supports up to 256 LAGs, each with up to 8 links per LAG; and provides support for static or dynamic groups and a user-selectable hashing algorithm
- IEEE 802.1s Multiple Spanning Tree provides high link availability in VLAN environments where multiple spanning trees are required; and legacy support for IEEE 802.1d and IEEE 802.1w
- IEEE 802.3ad link-aggregation-control protocol (LACP) and port trunking support static and dynamic trunks where each trunk supports up to eight links (ports) per static trunk
- Support for Microsoft Network Load Balancer (NLB) for server applications
- Ethernet Ring Protection Switching (ERPS) supports rapid protection and recovery in a ring topology
- Hot-Patching support for standalone CX 6300 and for 6300 with VSF Stacking

### Quality of Service (QoS) features

To support congestion actions and traffic prioritization, the HPE Aruba Networking CX 6300 Series includes the following:

- Strict priority (SP) queuing and Deficit Weighted Round Robin (DWRR)

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<sup>2</sup> 100M use on Smart Rate ports is limited to full-duplex only. For 100M half-duplex support, use 1G ports on other models.

<sup>3</sup> VXLAN tunnelling not supported on CX 6300L switch models



- Traffic prioritization (IEEE 802.1p) for real-time classification into 8 priority levels that are mapped to 8 queues
- Layer 4 prioritization based on TCP/UDP port numbers
- Class of Service (CoS) sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ
- Rate limiting sets per-port ingress enforced maximums and per-port, per-queue minimums
- Transmission rates of egressing frames can be limited on a per-queue basis using Egress Queue Shaping (EQS)
- Large buffers for graceful congestion management

### Simplified configuration and management

In addition to HPE Aruba Networking Central, the HPE Aruba Networking CX Mobile App, HPE Aruba Networking Switch Multi-Edit Software and HPE Aruba Networking Network Analytics Engine, the 6300 series offers the following:

- Built-in programmable and easy to use REST API interface
- Simple day zero provisioning
- Scalable ASIC-based wire speed network monitoring and accounting with no impact on network performance; network operators can gather a variety of network statistics and information for capacity planning and real-time network monitoring purposes
- Management interface control enables or disables each of the following depending on security preferences, console port, or reset button
- Industry-standard CLI with a hierarchical structure for reduced training time and expense. Delivers increased productivity in multivendor environments
- Management security restricts access to critical configuration commands, provides multiple privilege levels with password

protection and local and remote syslog capabilities allow logging of all access

- SNMP v2c/v3 provides SNMP read and trap support of industry standard Management Information Base (MIB), and private extensions
- SNMP support includes: Write Set Speed and Duplex, Write Port Security, Write POE Priority, Write Config Mgmt, SNMP-Read single OID for average CPU and memory, SNMP MIB View
- SNMP Trap include: Transceiver Traps (insertion/removal), SNMP Trap, SNMP MIB-SNMB Authentication, SNMPv2 MIB, Port Sec MIB-Port Sec, Config MIB-Running Config Change, Config MIB, AAA Server MIB, AAA Server State
- Remote monitoring (RMON) with standard SNMP to monitor essential network functions. Supports events, alarms, history, and statistics groups as well as a private alarm extension group; RMON, and sFlow provide advanced monitoring and reporting capabilities for statistics, history, alarms and events
- IP Flow Information Export (IPFIX) enables client flow information collection to enhance visibility
- Simplifies configuration while onboarding switches with Zero Touch Provisioning by using Dynamic Border Gateway Protocol (BGP) peering to establish a peer group of switches within an IP range
- Provides insights on latency, failures, and error events through HPE Aruba Networking Central for enhanced visibility during client onboarding
- TFTP and SFTP support offers different mechanisms for configuration updates; trivial FTP (TFTP) allows bidirectional transfers over a TCP/ IP network; Secure File Transfer Protocol (SFTP) runs over an SSH tunnel to provide additional security
- Debug and sampler utility supports ping and traceroute for IPv4 and IPv6
- Network Time Protocol (NTP) synchronizes timekeeping among distributed time servers and clients; keeps timekeeping consistent among

all clock-dependent devices within the network so the devices can provide diverse applications based on the consistent time

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP) advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications
- Dual flash images provides independent primary and secondary operating system files for backup while upgrading
- Assignment of descriptive names to ports for easy identification
- Multiple configuration files can be stored to a flash image
- Ingress and egress port monitoring enable more efficient network problem solving
- Unidirectional link detection (UDLD) monitors the link between two switches and blocks the ports on both ends of the link if the link goes down at any point between the two devices
- IP SLA for Voice monitors quality of voice traffic using the UDP Jitter and UDP Jitter for VoIP tests
- Precision Time Protocol (PTP) allows for precise clock synchronization across distributed network switches as defined in IEEE 1588. Transparent Clock (PTP-TC) and Boundary Clock (PTP-BC) are needed for time critical applications like smart grid power automation, financial systems and more. Boundary Clock makes use of 2-Step time stamping mode.

### Layer 2 switching

The following layer 2 services are supported:

- VLAN support and tagging for IEEE 802.1Q (4094 VLAN IDs)
- Jumbo packet support improves the performance of large data transfers; supports frame size of up to 9198 bytes
- IEEE 802.1v protocol VLANs isolate select non-IPv4 protocols automatically into their own VLANs
- Rapid Per-VLAN Spanning Tree (RPVST+) allows each VLAN to build a separate

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spanning tree to improve link bandwidth usage; is compatible with PVST+

- MVRP allows automatic learning and dynamic assignment of VLANs
- VXLAN encapsulation (tunnelling) protocol for overlay network that enables a more scalable virtual network deployment<sup>1</sup>
- Bridge Protocol Data Unit (BPDU) tunnelling Transmits STP BPDUs transparently, allowing correct tree calculations across service providers, WANs, or MANs
- Port mirroring duplicates port traffic (ingress and egress) to a monitoring port; supports 4 mirroring groups
- STP supports standard IEEE 802.1D STP, IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) for faster convergence, and IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
- Internet Group Management Protocol (IGMP snooping) Controls and manages the flooding of multicast packets in a Layer 2 network
- IPv4 Multicast in VXLAN/EVPN Overlay support allows PIM-SM/IGMP snooping in the VXLAN Overlay<sup>1</sup>
- IPv6 VXLAN/EVPN Overlay support, allows IPv6 traffic over the VXLAN overlay<sup>1</sup>
- VXLAN ARP/ND suppression allows minimization of ARP and ND traffic flooding within individual VXLAN segments, thus optimizing the VXLAN network<sup>1</sup>
- QinQ support to improve the VLAN utilization by adding another 802.1Q tag to tagged packets

#### • Layer 3 services

The following layer 3 services are supported:

- Bidirectional Forwarding Detection (BFD) enables link connectivity monitoring and reduces network convergence time for static route, OSPFv2 and VRRP
- User Datagram Protocol (UDP) helper function allows UDP broadcasts to be directed across router interfaces to specific

IP unicast or subnet broadcast addresses and prevents server spoofing for UDP services such as DHCP

- Loopback interface address defines an address in Open Shortest Path First (OSPF), improving diagnostic capability
- Route maps provide more control during route redistribution; allow filtering and altering of route metrics
- Address Resolution Protocol (ARP) determines the MAC address of another IP host in the same subnet; supports static ARPs; gratuitous ARP allows detection of duplicate IP addresses; proxy ARP allows normal ARP operation between subnets or when subnets are separated by a Layer 2 network
- Dynamic Host Configuration Protocol (DHCP) simplifies the management of large IP networks and supports client; DHCP Relay enables DHCP operation across subnets
- DHCP server centralizes and reduces the cost of IPv4 address management
- Domain Name System (DNS) provides a distributed database that translates domain names and IP addresses, which simplifies network design; supports client and server
- mDNS (Multicast Domain Name System) Gateway enables discovery of mDNS groups across L3 boundaries
- Generic Routing Encapsulation (GRE) enables tunneling traffic from site to site over a Layer 3 path
- Supports internal loopback testing for maintenance purposes and increased availability; loopback detection protects against incorrect cabling or network configurations and can be enabled on a per-port or per-VLAN basis for added flexibility
- IP sub-interface is a virtual interface created by dividing physical interface into multiple logical interfaces tagged using different VLAN-IDs. A physical interface can be a regular physical, Split port or LAG L3 interface. A sub-interface is used for many uses-cases such as VRF-lite

interconnection and inter-vlan routing (router on-a-stick)

#### Layer 3 routing

The following layer 3 routing services are supported:

- Border Gateway Protocol (BGP) provides IPv4 and IPv6 routing, which is scalable, robust, and flexible
- Border Gateway Protocol 4 (BGP-4) delivers an implementation of the Exterior Gateway Protocol (EGP) utilizing path vectors; uses TCP for enhanced reliability for the route discovery process; reduces bandwidth consumption by advertising only incremental updates; supports extensive policies for increased flexibility; scales to very large networks with graceful restart capability
- Equal-Cost Multipath (ECMP) enables multiple equal-cost links in a routing environment to increase link redundancy and scale bandwidth
- Multi-protocol BGP (MP-BGP) enables sharing of IPv6 routes using BGP and connections to BGP peers using IPv6
- Routing Information Protocol version 2 (RIPv2) provides an easy to configure routing protocol for small networks as while RIPng provides support for small IPv6 networks
- Open shortest path first (OSPF) delivers faster convergence; uses link-state routing Interior Gateway Protocol (IGP), which supports ECMP, NSSA, and MD5 authentication for increased security and graceful restart for faster failure recovery.
- OSPF provides OSPFv2 for IPv4 routing and OSPFv3 for IPv6 routing
- Static IP routing provides manually configured routing; includes ECMP capability
- Policy-based routing uses a classifier to select traffic that can be forwarded based on policy set by the network administrator
- Static IPv4 and IPv6 routing provides simple manually configured IPv4 and IPv6 routes

<sup>1</sup>VXLAN features not supported on CX 6300L switch models



- IP performance optimization provides a set of tools to improve the performance of IPv4 networks; includes directed broadcasts, customization of TCP parameters, support of ICMP error packets, and extensive display capabilities
- Dual IP stack maintains separate stacks for IPv4 and IPv6 to ease the transition from an IPv4-only network to an IPv6-only network design

### Security

The HPE Aruba Networking CX 6300 Switch Series come with an integrated trusted platform module (TPM) for platform integrity. This ensures the boot process started from a trusted combination of HPE Aruba Networking AOS-CX switches. Other security features include:

- AOS-CX uses FIPS 140-2 validated cryptography for protection of sensitive information
  - Access control list (ACL) support for both IPv4 and IPv6; allows for filtering traffic to prevent unauthorized users from accessing the network, or for controlling network traffic to save resources; rules can either deny or permit traffic to be forwarded; rules can be based on a Layer 2 header or a Layer 3 protocol header
  - ACLs also provide filtering based on the IP field, source/destination IP address/subnet, and source/ destination TCP/UDP port number on a per-VLAN or per-port basis
  - Enrollment over Secure Transport (EST) enables secure certificate enrollment, allowing for easier enterprise management of PKI
  - Remote Authentication Dial-In User Service (RADIUS)
  - Terminal Access Controller Access-Control System (TACACS+) delivers an authentication tool using TCP with encryption of the full authentication request, providing additional security
  - Management access security for both on- and off-box authentication for administrative access. RADIUS or TACACS+ can be used to provide encrypted user authentication.
- Additionally, TACACS+ can also provide admin authorization services
- Control Plane Policing sets rate limit on control protocols to protect CPU overload from DOS attacks
  - Supports multiple user authentication methods. Uses an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server to authenticate in accordance with industry standards
  - Web based authentication using Captive Portal on ClearPass is supported for use cases such as Guest Access and for devices that don't support 802.1x or MAC Auth.
  - Supports MAC-based client authentication
  - Concurrent IEEE 802.1X, Web, and MAC authentication schemes per switch port accepts up to 32 sessions of IEEE 802.1X, Web, and MAC authentications
  - DHCP protection blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks
  - Secure management access delivers secure encryption of all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3
  - Switch CPU protection provides automatic protection against malicious network traffic trying to shut down the switch
  - ICMP throttling defeats ICMP denial-of-service attacks by enabling any switch port to automatically throttle ICMP traffic
  - Identity-driven ACL enables implementation of a highly granular and flexible access security policy and VLAN assignment specific to each authenticated network user
  - STP BPDU port protection blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
  - Dynamic IP lockdown works with DHCP protection to block traffic from unauthorized hosts, preventing IP source address spoofing
  - Dynamic ARP protection blocks ARP broadcasts from unauthorized hosts,
- preventing eavesdropping or theft of network data
- STP root guard protects the root bridge from malicious attacks or configuration mistakes
  - Port security allows access only to specified MAC addresses, which can be learned or specified by the administrator
  - MAC address lockout prevents particular configured MAC addresses from connecting to the network
  - Source-port filtering allows only specified ports to communicate with each other
  - Secure shell encrypts all transmitted data for secure remote CLI access over IP networks
  - Secure Sockets Layer (SSL) encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
  - Secure FTP allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file
  - Critical Authentication Role ensures that important infrastructure devices such as IP phones are allowed network access even in the absence of a RADIUS server
  - MAC Pinning allows non-chatty legacy devices to stay authenticated by pinning client MAC addresses to the port until the clients logoff or get disconnected
  - Security banner displays a customized security policy when users log in to the switch
  - RadSec enables RADIUS authentication and accounting data to be passed safely and reliably across insecure networks
  - Private VLAN (PVLAN) provides traffic isolation between users on the same VLAN; typically a switch port can only communicate with other ports in the same community and/or an uplink port, regardless of VLAN ID or destination MAC address. This extends network security by restricting peer-peer communication to prevent variety of malicious attacks.





- Auto VLAN Creation automates VLAN creation on access switches for authenticated clients.
- DHCP smart relay allows the DHCP relay agent to use secondary IP addresses when the DHCP server does not reply the DHCP-OFFER message
- IEEE 802.1AE MACsec provides switch-to-switch and switch-to-host security on a link between two ports using standard encryption and authentication, available on uplink and downlink ports

### Visibility and advanced security

Customers can choose to upgrade their switch with an HPE Aruba Networking CX Advanced Feature Pack to unlock the following benefits for their business:

- Deep visibility and application recognition with CX Edge Insights, including granular datapoint collection with search, sort and reporting.
- Role and application-based policy control and enforcement with the ability to recognize more than 3800 applications across 22 categories, and take action. Policy actions include drop, remark, and mirror.
- Hardened network security posture with WAN MACsec encryption services and support for Reflexive Policy.

### Multicast

- IGMP Snooping allows multiple VLANs to receive the same IPv4 multicast traffic, lessening network bandwidth demand by reducing multiple streams to each VLAN
- Multicast Listener Discovery (MLD) enables discovery of IPv6 multicast listeners; support MLD v1 and v2
- Protocol Independent Multicast (PIM) defines modes of IPv4 and IPv6 multicasting to allow one-to-many and many-to-many transmission of information; supports PIM Sparse Mode (SM), Source-Specific Multicast (SSM), and Dense Mode (DM) for both IPv4 and IPv6
- Internet Group Management Protocol (IGMP) utilizes Any-Source Multicast (ASM) to manage IPv4 multicast networks; supports IGMPv1, v2, and v3
- Multicast Service Discovery Protocol (MSDP) efficiently routes multicast traffic through core networks

- MSDP for Anycast RP is an intra-domain feature that provides redundancy and load-sharing capabilities

### Convergence

- IP multicast routing includes PIM Sparse, Source-Specific Multicast (SSM), and Dense modes to route IP multicast traffic
- IP multicast snooping (data-driven IGMP) prevents flooding of IP multicast traffic
- Protocol Independent Multicast for IPv6 supports one-to-many and many-to-many media casting use cases such as IPTV over IPv6 networks
- LLDP-MED (Media Endpoint Discovery) defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones
- PoE allocations supports multiple methods (allocation by usage or class, with LLDP and LLDP-MED) to allocate PoE power for more efficient power management and energy savings.
- Auto VLAN configuration for voice RADIUS VLAN uses a standard RADIUS attribute and LLDP-MED to automatically configure a VLAN for IP phones
- CDPv2 uses CDPv2 to configure legacy IP phones

### Additional information

- Green initiative support for RoHS (EN 50581:2012) and WEEE regulations
- TAA-compliant CX 6300 switch models are available

### Customer first, customer last support

When your network is important to your business, then your business needs the backing of HPE Aruba Networking Support Services. Partner with HPE Aruba Networking product experts to increase your team productivity, keep pace with technology advances, software releases, and obtain break-fix support.

Foundational Care for HPE Aruba Networking support services include priority access to HPE Aruba Networking Technical Assistance Center(TAC) engineers 24x7x365, flexible hardware and onsite support options, and total coverage for HPE Aruba Networking products. HPE Aruba Networking switches with assigned HPE

Aruba Networking Central subscriptions benefit with option for additional hardware support only.

HPE Aruba Networking Pro Care adds fast access to senior HPE Aruba Networking TAC engineers, who are assigned as a single point of contact for case management, reducing the time spent addressing and resolving issues.

For complete details on Foundational Care and HPE Aruba Networking Pro Care, please visit: <https://www.arubanetworks.com/supportservices/>

### Warranty, services and support

Limited Lifetime Warranty, see <https://www.arubanetworks.com/support-services/product-warranties/> for warranty and support information included with your product purchase

For more detailed information on HPE Aruba Networking AOS-CX software release and features, please visit the [AOS-CX Switch Software Documentation Portal](#)

Explore and compare switch features for each platform and software release on the [HPE Aruba Networking Switch Feature Navigator](#)

For Software Releases and Documentation, refer to <https://asp.arubanetworks.com/downloads>

For support and services information, visit <https://www.arubanetworks.com/support-services/arubacare/>



## Technical specifications

	<b>HPE Aruba Networking CX 6300M 48p SR10 PTP/AVB Class8 PoE 4p 100G MACsec Switch (S0E91A)</b>	<b>HPE Aruba Networking 6300M 24p HPE Smart Rate 1G/2.5G/5G/10G Class6 PoE and 2p 50G and 2p 25G Switch (R8S89A)</b>	<b>HPE Aruba Networking 6300M 48p HPE Smart Rate 1G/2.5G/5G Class8 PoE and 2p 50G and 2p 25G Switch (R8S90A)</b>
<b>Description</b>	<p>48x ports SmartRate 100M<sup>2</sup>/1G/2.5G/5G/10G BaseT Class 8 PoE ports supporting up to 90W per port (MACsec) 4x 10G/25G/40G/100G QSFP/QSFP28 ports (MACsec) Supports PoE Standards IEEE 802.3af, 802.3at and 802.3bt (up to 90W) 1x USB-C Console Port (higher priority than RJ45 console port) 1x RJ45 console port 1x OOBM 1x USB Type A Host port</p>	<p>24x ports SmartRate 100M<sup>2</sup>/1G/2.5G/5G/10G BaseT Class 6 PoE ports supporting up to 60W per port (MACsec) 2x 10G/25G/50G<sup>1</sup> SFP ports 2x 10G/25G SFP ports (MACsec) Supports PoE Standards IEEE 802.3af, 802.3at and 802.3bt (up to 60W) 1x USB-C Console Port 1x RJ Console Port 1x OOBM port 1x USB Type A Host port</p>	<p>48x ports SmartRate 100M<sup>2</sup>/1G/2.5G/5G BaseT Class 8 PoE ports supporting up to 90W per port (MACsec) 2x 10G/25G/50G<sup>1</sup> SFP ports 2x 10G/25G SFP ports (MACsec) Supports PoE Standards IEEE 802.3af, 802.3at and 802.3bt (up to 90W) 1x USB-C Console Port 1x RJ Console Port 1x OOBM port 1x USB Type A Host port</p>
<b>Power supplies</b>	<p>2 field-replaceable, hot-swappable power supply slots 1 minimum power supply required (ordered separately)</p> <p>Supported PSUs JL086A JL087A JL670A JL758A Max PoE Power: 2640W</p>	<p>2 field-replaceable, hot-swappable power supply slots 1 minimum power supply required (ordered separately)</p> <p>Supported PSUs JL086A JL087A JL670A JL758A Max PoE Power: 2880W</p>	<p>2 field-replaceable, hot-swappable power supply slots 1 minimum power supply required (ordered separately)</p> <p>Supported PSUs JL086A JL087A JL670A JL758A Max PoE Power: 2880W</p>
<b>Fans</b>	<p>Switch has three fan tray slots and comes with three JL714A fan trays installed</p> <ul style="list-style-type: none"> <li>• Min 3 fan trays required.</li> <li>• Fan trays are field replaceable and hot-swappable.</li> <li>• Each fan tray contains two fans.</li> </ul>	<p>Switch has two fan tray slots and comes with two fan trays installed.</p> <ul style="list-style-type: none"> <li>• Min 2 fan trays required.</li> <li>• Fan trays are field replaceable and hot-swappable.</li> <li>• Each fan tray contains two fans.</li> </ul>	<p>Switch has two fan tray slots and comes with two fan trays installed</p> <ul style="list-style-type: none"> <li>• Min 2 fan trays required.</li> <li>• Fan trays are field replaceable and hot-swappable.</li> <li>• Each fan tray contains two fans.</li> </ul>
<b>Physical characteristics</b>			
<b>Dimensions</b>	(H) 4.4 cm x (W) 44.2 cm x (D) 47.2 cm (1.73" x 17.4" x 18.6")	(H) 4.4 cm x (W) 44.2 cm x (D) 38.5 cm (1.73" x 17.4" x 15.2")	(H) 4.4 cm x (W) 44.2 cm x (D) 38.5 cm (1.73" x 17.4" x 15.2")
<b>Configuration weight</b>	7.75 kg (17.09 lbs)	5.26 kg (11.60 lbs)	5.48 kg (12.08 lbs)

<sup>1</sup> 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.

<sup>2</sup> 100M use on Smart Rate ports is limited to full-duplex only. For 100M half-duplex support, use 1G ports on other models.



## Technical specifications

	HPE Aruba Networking CX 6300M 48p SR10 PTP/AVB Class8 PoE 4p 100G MACsec Switch (S0E91A)	HPE Aruba Networking 6300M 24p HPE Smart Rate 1G/2.5G/5G/10G CL6 PoE and 2p 50G and 2p 25G Switch (R8S89A)	HPE Aruba Networking 6300M 48p HPE Smart Rate 1G/2.5G/5G CL8 PoE and 2p 50G and 2p 25G Switch (R8S90A)
<b>Additional specifications</b>			
<b>CPU</b>	Quad Core ARM Cortex™ A72 @ 1.8GHz	Quad Core ARM Cortex™ A72 @ 1.8GHz	Quad Core ARM Cortex™ A72 @ 1.8GHz
<b>Memory and flash</b>	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC
<b>Packet buffer</b>		16 MB	16 MB
<b>Performance</b>			
<b>Model switching capacity</b>	1760 Gbps	780 Gbps	780 Gbps
<b>Model throughput capacity</b>	1310 Mpps	580 Mpps	580 Mpps
<b>Average latency (LIFO-64-bytes packets)</b>		1Gbps: 4.24µSec 10Gbps: 1.50µSec 25Gbps: 2.91µSec 50Gbps <sup>1</sup> : 3.49µSec	1Gbps: 4.24µSec 10Gbps: 1.50µSec 25Gbps: 2.91µSec 50Gbps <sup>1</sup> : 3.49µSec
<b>Stack size</b>	10 members	10 members	10 members
<b>Max stacking distance</b>	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers
<b>Stacking bandwidth</b>	400 Gbps	200 Gbps	200 Gbps
<b>Switched virtual interfaces (dual stack)</b>	1,024	1,024	1,024
<b>IPv4 host table (ARP)</b>	49,152	49,152	49,152
<b>IPv6 host table (ND)</b>	49,152	49,152	49,152
<b>IPv4 unicast routes</b>	61,000	61,000	61,000
<b>IPv6 unicast routes</b>	61,000	61,000	61,000
<b>IPv4 multicast routes</b>	8,192	8,192	8,192
<b>IPv6 multicast routes</b>	8,192	8,192	8,192
<b>MAC table capacity</b>	32,768	32,768	32,768
<b>IGMP groups</b>	4,096	4,096	4,096
<b>MLD groups</b>	8,192	8,192	8,192
<b>IPv4/IPv6/MAC ACL entries (ingress)</b>	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480
<b>IPv4/IPv6/MAC ACL entries (egress)</b>	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192
<b>VRF</b>	256	256	256

<sup>1</sup> 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.

<sup>2</sup> No more than 96 consecutive hours and no more than 360 hours total (15 days) in 1 year.



## Technical specifications

	HPE Aruba Networking CX 6300M 48p SR10 PTP/AVB Class8 PoE 4p 100G MACsec Switch (S0E91A)	HPE Aruba Networking 6300M 24p HPE Smart Rate 1G/2.5G/5G/10G CL6 PoE and 2p 50G and 2p 25G Switch (R8S89A)	HPE Aruba Networking 6300M 48p HPE Smart Rate 1G/2.5G/5G CL8 PoE and 2p 50G and 2p 25G Switch (R8S90A)
<b>Environment</b>			
<b>Operating temperature</b>	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft.  Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft.  Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft.  Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time.
<b>Operating relative humidity</b>	5% to 95% @ 104°F (40°C) non-condensing	5% to 95% @ 104°F (40°C) non-condensing	5% to 95% @ 104°F (40°C) non-condensing
<b>Non-operating</b>	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft
<b>Non-operating storage relative humidity</b>	5% to 95% @ 149°F (65°C) non-condensing	5% to 95% @ 149°F (65°C) non-condensing	5% to 95% @ 149°F (65°C) non-condensing
<b>Max operating altitude</b>	10,000 feet (3.04 km) Max	10,000 feet (3.04 km) Max	10,000 feet (3.04 km) Max
<b>Max Non-operating altitude</b>	15,000 feet (4.6 km) Max	15,000 feet (4.6 km) Max	15,000 feet (4.6 km) Max
<b>Acoustic</b>	Sound Power, LWAd = 5.8 Bel Sound Pressure, LpAm (Bystander) = 41.7 dB	Sound Power, LWAd = 4.9 Bel Sound Pressure, LpAm (Bystander) = 33.0 dB	Sound Power, LWAd = 5.0 Bel Sound Pressure, LpAm (Bystander) = 33.4 dB
<b>Primary airflow</b>	Front and side to back	Front and side to back	Front and side to back
<b>Electrical characteristics</b>			
<b>Frequency</b>	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
<b>Input voltage</b>	JL670A PSU: 110V-120V/200V/208V-240V; AC input JL086A PSU: 100V-240V; AC input JL087A PSU: 110V-240V; AC input JL758A PSU: 36-72VDC; DC input	JL670A PSU: 110V-120V/208V-240V JL086A PSU: 100V-240V JL087A PSU: 110V-240V	JL670A PSU: 110V-120V/208V-240V JL086A PSU: 100V-240V JL087A PSU: 110V-240V
<b>Current (for voltages listed above)</b>	JL670A PSU: 11A/9A/8A JL086A PSU: 8A/3.5A JL087A PSU: 12A/5A JL758A PSU: 16.6 – 34.3A	JL670A PSU: 11A/8A JL086A PSU: 8A/3.5A JL087A PSU: 12A/5A	JL670A PSU: 11A/8A JL086A PSU: 8A/3.5A JL087A PSU: 12A/5A
<b>Power consumption (230VAC)</b>	With single JL086A PSU: Idle: 207W 100% Traffic Rate: 283W With single JL087A PSU: Idle: 208W 100% Traffic Rate: 282W With single JL670A PSU: Idle: 211W 100% Traffic Rate: 283W	With JL086A PSU: Idle: 90W 100% Traffic Rate: 143W With JL087A PSU: Idle: 90W 100% Traffic Rate: 140W With JL670A PSU: Idle: 101W 100% Traffic Rate: 152W	With JL086A PSU: Idle: 104W 100% Traffic Rate: 173W With JL087A PSU: Idle: 104W 100% Traffic Rate: 173W With JL670A PSU: Idle: 115W 100% Traffic Rate: 184W

<sup>1</sup> No more than 96 consecutive hours and no more than 360 hours total (15 days) in 1 year.



## Technical specifications

	HPE Aruba Networking CX 6300M 48p SR10 PTP/AVB Class8 PoE 4p 100G MACsec Switch (S0E91A)	HPE Aruba Networking 6300M 24p HPE Smart Rate 1G/2.5G/5G/10G CL6 PoE and 2p 50G and 2p 25G Switch (R8S89A)	HPE Aruba Networking 6300M 48p HPE Smart Rate 1G/2.5G/5G CL8 PoE and 2p 50G and 2p 25G Switch (R8S90A)
<b>Safety</b>			
<b>Include US, Canada, Europe, Worldwide</b>	Europe: EN 62368-1:2014 +A11:2017 EN 62368-1:2020 +A11:2020 US: UL 62368-1 2nd Ed. CAN: CSA-C22.2 No. 62368-1-14 2nd Ed. Worldwide: IEC 62368-1:2014 (2nd Ed) IEC 62368-1:2018 (3rd Ed) Taiwan: CNS 15598-1:2020	Europe: EN 62368-1:2014 +A11:2017 2nd Ed. EN 62368-1:2020 +A11:2020 3rd Ed. UK: BS EN 62368-1:2014 + A11:2017 2nd Ed BS EN 62368-1:2020 + A11:2020 3rd Ed US/Canada: UL 62368-1 2nd Ed. CAN/CSA-C22.2 No. 62368-1-14 2nd Ed. Worldwide: IEC 60950-1:2005 + Am1:2009 + Am2:2013 w/all known National Deviations IEC 62368-1:2014 2nd Ed. w/all known National Deviations IEC 62368-1:2018 3rd Ed. w/all known National Deviations "	Europe: EN 62368-1:2014 +A11:2017 2nd Ed. EN 62368-1:2020 +A11:2020 3rd Ed. UK: BS EN 62368-1:2014 + A11:2017 2nd Ed BS EN 62368-1:2020 + A11:2020 3rd Ed US/Canada: UL 62368-1 2nd Ed. CAN/CSA-C22.2 No. 62368-1-14 2nd Ed. Worldwide: IEC 60950-1:2005 + Am1:2009 + Am2:2013 w/all known National Deviations IEC 62368-1:2014 2nd Ed. w/all known National Deviations IEC 62368-1:2018 3rd Ed. w/all known National Deviations "
<b>Emissions</b>			
<b>Include US, Canada, Europe, Worldwide</b>	Europe: EN 55032:2015+A11:2020, Class A EN 55035:2017+A11:2020 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A2:2021 US: FCC 47 CFR part 15 subpart B, Class A CAN: ICES-003 Issue 7:2020, Class A Japan: VCCI-CISPR 32:2016, Class A Taiwan: CNS 15936:2016, Class A AUS/NZ: AS/NZS CISPR 32:2015+A1:2020, Class A Worldwide: CISPR 32:2015/AMD1:2019, Class A CISPR 35:2016	Europe: EN 55032:2015 +A11:2020, Class A EN 55035:2017 +A11:2020 EN 61000-3-2:2014, Class A EN 61000-3-3:2013 US/Canada: FCC CFR47 Part 15:2014, Class A ICES-003 Class A Worldwide: VCCI Class A CISPR 32 Class A CISPR 35:2016	Europe: EN 55032:2015 +A11:2020, Class A EN 55035:2017 +A11:2020 EN 61000-3-2:2014, Class A EN 61000-3-3:2013 US/Canada: FCC CFR47 Part 15:2014, Class A ICES-003 Class A Worldwide: VCCI Class A CISPR 32 Class A CISPR 35:2016
<b>Lasers</b>			
<b>Include US, Canada, Europe, Worldwide</b>	EN 60825-1:2014 +A11:2021 / IEC 60825-1:2014 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories – Optical Transceivers only)	EN 60825-1:2014 / IEC 60825-1:2014 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories – Optical Transceivers only)	EN 60825-1:2014 / IEC 60825-1:2014 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories – Optical Transceivers only)



## Technical specifications

	HPE Aruba Networking CX 6300M 48p SR10 PTP/AVB Class8 PoE 4p 100G MACsec Switch (S0E91A)	HPE Aruba Networking 6300M 24p HPE Smart Rate 1G/2.5G/5G/10G CL6 PoE and 2p 50G and 2p 25G Switch (R8S89A)	HPE Aruba Networking 6300M 48p HPE Smart Rate 1G/2.5G/5G CL8 PoE and 2p 50G and 2p 25G Switch (R8S90A)
<b>Immunity</b>			
<b>Generic</b>	CISPR 35	CISPR 35	CISPR 35
<b>EN</b>	EN 55035:2017	EN 55035:2017	EN 55035:2017
<b>ESD</b>	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
<b>Radiated</b>	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
<b>EFT/Burst</b>	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
<b>Surge</b>	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
<b>Conducted</b>	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
<b>Power frequency magnetic field</b>	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
<b>Voltage dips and interruptions</b>	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
<b>Harmonics</b>	IEC 61000-3-2:2018+A1:2020; EN IEC 61000-3-2:2019+A1:2021	IEC 61000-3-2, EN 61000-3-2	IEC 61000-3-2, EN 61000-3-2
<b>Flicker</b>	IEC/EN 61000-3-3:2013+A2:2021	IEC 61000-3-3, EN 61000-3-3	IEC 61000-3-3, EN 61000-3-3
<b>Mounting and enclosure</b>			
	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.



## Technical specifications

	<b>HPE Aruba Networking 6300M 48SR5 12p Class8 PoE and 36p Class6 PoE HPE Smart Rate 1G/2.5G/5G and 2p 50G and 2p 10G LRM support Switch (R8S91A)</b>	<b>HPE Aruba Networking 6300M 24p SFP+ LRM support and 2p 50G and 2p 25G MACsec Switch (R8S92A)</b>
<b>Description</b>	48x ports SmartRate 100M <sup>2</sup> /1G/2.5G/5G BaseT Class 8 PoE ports supporting up to 90W per port on ports 1-12, and up to 60W per port on ports 13-48 (MACsec) 2x 10G/25G/50G <sup>1</sup> SFP ports 2x 1G/10G SFP ports (LRM + MACsec) Supports PoE Standards IEEE 802.3af, 802.3at and 802.3bt (up to 90W) 1x USB-C Console Port 1x RJ Console Port 1x OOBM port 1x USB Type A Host port	24x 1G/10G SFP+ ports (LRM + MACsec) 2x 10G/25G/50G <sup>1</sup> SFP ports 2x 10G/25G SFP ports (MACsec) 1x USB-C Console Port 1x RJ Console Port 1x OOBM port 1x USB Type A Host port
<b>Power supplies</b>	2 field-replaceable, hot-swappable power supply slots 1 minimum power supply required (ordered separately)  Supported PSUs JL086A JL087A JL670A JL758A Max PoE Power: 2880W	2 field-replaceable, hot-swappable power supply slots 1 minimum power supply required (ordered separately)  Supported PSUs JL085A JL757A PSU
<b>Fans</b>	Switch has two fan tray slots and comes with two fan trays installed. <ul style="list-style-type: none"> <li>• Min 2 fan trays required.</li> <li>• Fan trays are field replaceable and hot-swappable.</li> <li>• Each fan tray contains two fans.</li> </ul>	Switch has two fan tray slots and comes with two fan trays installed. <ul style="list-style-type: none"> <li>• Min 2 fan trays required.</li> <li>• Fan trays are field replaceable and hot-swappable.</li> <li>• Each fan tray contains two fans.</li> </ul>
<b>Physical characteristics</b>		
<b>Dimensions</b>	(H) 4.4 cm x (W) 44.2 cm x (D) 38.5 cm (1.73" x 17.4" x 15.2")	(H) 4.4 cm x (W) 44.2 cm x (D) 38.5 cm (1.73" x 17.4" x 15.2")
<b>Configuration weight</b>	5.47 kg (12.06 lbs)	4.85 kg (10.70 lbs)

<sup>1</sup> 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.

<sup>2</sup> 100M use on Smart Rate ports is limited to full-duplex only. For 100M half-duplex support, use 1G ports on other models.



## Technical specifications

	HPE Aruba Networking 6300M 12p Class8 PoE and 36p Class6 PoE HPE Smart Rate 1G/2.5G/5G and 2p 50G and 2p 10G Switch (R8S91A)	HPE Aruba Networking 6300M 24p SFP+ LRM support and 2p 50G and 2p 25G MACsec Switch (R8S92A)
<b>Additional specifications</b>		
<b>CPU</b>	Quad Core ARM Cortex™ A72 @ 1.8GHz	Quad Core ARM Cortex™ A72 @ 1.8GHz
<b>Memory and flash</b>	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC
<b>Packet buffer</b>	16 MB	16 MB
<b>Performance</b>		
<b>Model switching capacity</b>	720 Gbps	780 Gbps
<b>Model throughput capacity</b>	535 Mpps	580 Mpps
<b>Average latency (LIFO-64-bytes packets)</b>	1Gbps: 4.24µSec 10Gbps: 1.50µSec 25Gbps: 2.91µSec 50Gbps <sup>1</sup> : 3.49µSec	1Gbps: 4.24µSec 10Gbps: 1.50µSec 25Gbps: 2.91µSec 50Gbps <sup>1</sup> : 3.49µSec
<b>Stack size</b>	10 members	10 members
<b>Max stacking distance</b>	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers
<b>Stacking bandwidth</b>	200 Gbps	200 Gbps
<b>Switched virtual interfaces (dual stack)</b>	1,024	1,024
<b>IPv4 host table (ARP)</b>	49,152	49,152
<b>IPv6 host table (ND)</b>	49,152	49,152
<b>IPv4 unicast routes</b>	61,000	61,000
<b>IPv6 unicast routes</b>	61,000	61,000
<b>IPv4 multicast routes</b>	8,192	8,192
<b>IPv6 multicast routes</b>	8,192	8,192
<b>MAC table capacity</b>	32,768	32,768
<b>IGMP groups</b>	4,096	4,096
<b>MLD groups</b>	8,192	8,192
<b>IPv4/IPv6/MAC ACL entries (ingress)</b>	20,480/5,120/20,480	20,480/5,120/20,480
<b>IPv4/IPv6/MAC ACL entries (egress)</b>	8,192/2,048/8,192	8,192/2,048/8,192
<b>VRF</b>	256	256

<sup>1</sup> 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.

<sup>2</sup> No more than 96 consecutive hours and no more than 360 hours total (15 days) in 1 year.





## Technical specifications

	HPE Aruba Networking 6300M 12p Class8 PoE and 36p Class6 PoE HPE Smart Rate 1G/2.5G/5G and 2p 50G and 2p 10G Switch (R8S91A)	HPE Aruba Networking 6300M 24p SFP+ LRM support and 2p 50G and 2p 25G MACsec Switch (R8S92A)
<b>Environment</b>		
<b>Operating temperature</b>	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft.  Can support excursion to 131°F (55°C) for short periods <sup>2</sup> of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft.2 Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft.  Can support excursion to 131°F (55°C) for short periods <sup>2</sup> of time.  55C excursion not supported when 10G LRM/LR/ER inserted  When 10G BT and 10G LRM/LR/ER transceivers are installed together, fan redundancy is only supported up to 104°F (40°C), 5,000ft
<b>Operating relative humidity</b>	5% to 95% @ 104°F (40°C) non-condensing	5% to 95% @ 104°F (40°C) non-condensing
<b>Non-operating</b>	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft
<b>Non-operating storage relative humidity</b>	5% to 95% @ 149°F (65°C) non-condensing	5% to 95% @ 149°F (65°C) non-condensing
<b>Max operating altitude</b>	10,000 feet (3.04 km) Max	10,000 feet (3.04 km) Max
<b>Max Non-operating altitude</b>	15,000 feet (4.6 km) Max	15,000 feet (4.6 km) Max
<b>Acoustic</b>	Sound Power, LWAd = 4.9 Bel Sound Pressure, LpAm (Bystander) = 32.6 dB	Sound Power, LWAd = 4.6 Bel Sound Pressure, LpAm (Bystander) = 30.1 dB
<b>Primary airflow</b>	Front and side to back	Front and side to back
<b>Electrical characteristics</b>		
<b>Frequency</b>	50Hz/60Hz	50Hz/60Hz
<b>AC voltage</b>	JL670A PSU: 110V-120V/208V-240V JL086A PSU: 100V-240V JL087A PSU: 110V-240V	JL085A PSU: 100V-240V
<b>Current (for voltages listed above)</b>	JL670A PSU: 11A/8A JL086A PSU: 8A/3.5A JL087A PSU: 12A/5A	JL085A PSU: 3A/1.2A
<b>Power consumption (230VAC)</b>	With JL086A PSU: Idle: 104W 100% Traffic Rate: 168W With JL087A PSU: Idle: 104W 100% Traffic Rate: 168W With JL670A PSU: 98 Idle: 113W 100% Traffic Rate: 179W	Idle: 87W 100% Traffic Rate: 131W



## Technical specifications

	HPE Aruba Networking 6300M 12p Class8 PoE and 36p Class6 PoE HPE Smart Rate 1G/2.5G/5G and 2p 50G and 2p 10G Switch (R8S91A)	HPE Aruba Networking 6300M 24p SFP+ LRM support and 2p 50G and 2p 25G MACsec Switch (R8S92A)
<b>Safety</b>		
<b>Include US, Canada, Europe, Worldwide</b>	Europe: EN 62368-1:2014 +A11:2017 2nd Ed. EN 62368-1:2020 +A11:2020 3rd Ed. UK: BS EN 62368-1:2014 + A11:2017 2nd Ed BS EN 62368-1:2020 + A11:2020 3rd Ed US/Canada: UL 62368-1 2nd Ed. CAN/CSA-C22.2 No. 62368-1-14 2nd Ed. Worldwide: IEC 60950-1:2005 + Am1:2009 + Am2:2013 w/all known National Deviations IEC 62368-1:2014 2nd Ed. w/all known National Deviations IEC 62368-1:2018 3rd Ed. w/all known National Deviations "	Europe: EN 62368-1:2014 +A11:2017 2nd Ed. EN 62368-1:2020 +A11:2020 3rd Ed. UK: BS EN 62368-1:2014 + A11:2017 2nd Ed BS EN 62368-1:2020 + A11:2020 3rd Ed US/Canada: UL 62368-1 2nd Ed. CAN/CSA-C22.2 No. 62368-1-14 2nd Ed. Worldwide: IEC 60950-1:2005 + Am1:2009 + Am2:2013 w/all known National Deviations IEC 62368-1:2014 2nd Ed. w/all known National Deviations IEC 62368-1:2018 3rd Ed. w/all known National Deviations "
<b>Emissions</b>		
<b>Include US, Canada, Europe, Worldwide</b>	Europe: EN 55032:2015 +A11:2020, Class A EN 55035:2017 +A11:2020 EN 61000-3-2:2014, Class A EN 61000-3-3:2013 US/Canada: FCC CFR47 Part 15:2014, Class A ICES-003 Class A Worldwide: VCCI Class A CISPR 32 Class A CISPR 35:2016	Europe: EN 55032:2015 +A11:2020, Class A EN 55035:2017 +A11:2020 EN 61000-3-2:2014, Class A EN 61000-3-3:2013 US/Canada: FCC CFR47 Part 15:2014, Class A ICES-003 Class A Worldwide: VCCI Class A CISPR 32 Class A CISPR 35:2016
<b>Lasers</b>		
<b>Include US, Canada, Europe, Worldwide</b>	EN 60825-1:2014 / IEC 60825-1:2014 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)	EN 60825-1:2014 / IEC 60825-1:2014 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)



## Technical specifications

	HPE Aruba Networking 6300M 12p Class8 PoE and 36p Class6 PoE HPE Smart Rate 1G/2.5G/5G and 2p 50G and 2p 10G Switch (R8S91A)	HPE Aruba Networking 6300M 24p SFP+ LRM support and 2p 50G and 2p 25G MACsec Switch (R8S92A)
<b>Immunity</b>		
<b>Generic</b>	CISPR 35	CISPR 35
<b>EN</b>	EN 55035:2017	EN 55035:2017
<b>ESD</b>	IEC 61000-4-2	IEC 61000-4-2
<b>Radiated</b>	IEC 61000-4-3	IEC 61000-4-3
<b>EFT/Burst</b>	IEC 61000-4-4	IEC 61000-4-4
<b>Surge</b>	IEC 61000-4-5	IEC 61000-4-5
<b>Conducted</b>	IEC 61000-4-6	IEC 61000-4-6
<b>Power frequency magnetic field</b>	IEC 61000-4-8	IEC 61000-4-8
<b>Voltage dips and interruptions</b>	IEC 61000-4-11	IEC 61000-4-11
<b>Harmonics</b>	IEC 61000-3-2, EN 61000-3-2	IEC 61000-3-2, EN 61000-3-2
<b>Flicker</b>	IEC 61000-3-3, EN 61000-3-3	IEC 61000-3-3, EN 61000-3-3
<b>Mounting and enclosure</b>		
	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.



## Technical specifications

	<b>HPE Aruba Networking 6300M 24-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL662A)</b>	<b>HPE Aruba Networking 6300M 48-port 1GbE and 4-port SFP56 Switch (JL663A)</b>	<b>HPE Aruba Networking 6300M 24-port 1GbE and 4-port SFP56 Switch (JL664A)</b>	<b>HPE Aruba Networking 6300M 48-port 1GbE and 4-port SFP56 Power-to-Port 2 Fan Trays 1 PSU Bundle (JL762A)</b>
<b>Description</b>	24x ports 10/100/1000 BaseT PoE+ ports supporting up to 30W per port  4x 1G/10G/25G/50G <sup>1</sup> SFP ports  Supports PoE Standards IEEE 802.3af, 802.3at  1x USB-C Console Port 1x OOBM port 1x USB Type A Host port	48x ports 10/100/1000 BaseT ports  4x 1G/10G/25G/50G <sup>1</sup> SFP ports  1x USB-C Console Port 1x OOBM port 1x USB Type A Host port	24x ports 10/100/1000 BaseT ports  4x 1G/10G/25G/50G <sup>1</sup> SFP ports  1x USB-C Console Port 1x OOBM port 1x USB Type A Host port	48x ports 10/100/1000 BaseT ports  4x 1G/10G/25G/50G <sup>1</sup> SFP ports  1x USB-C Console Port 1x OOBM 1x USB Type A Host port
<b>Power supplies</b>	2 field-replaceable, hot-swappable power supply slots  1 minimum power supply required (ordered separately)  Supported PSUs JL086A JL087A JL670A  Max PoE Power: 720W	2 field-replaceable, hot-swappable power supply slots  1 minimum power supply required (ordered separately)  Supports JL085A PSU	2 field-replaceable, hot-swappable power supply slots  1 minimum power supply required (ordered separately)  Supports JL085A PSU	2 Field-replaceable, hot-swappable power-supply slots and comes with 1 Pwr2Prt power-supply pre-installed  Additional Pwr2Prt power-supply can be ordered separately  Supports JL760A Pwr2Prt power-supply only
<b>Fans</b>	Switch has two fan tray slots and comes with one fan tray installed. Min 1 fan tray required. Optional second fan tray ordered separately. Fan trays are field replaceable and hot-swappable. Each fan tray contains two fans.	Switch has two fan tray slots and comes with one fan tray installed. Min 1 fan tray required. Optional second fan tray ordered separately. Fan trays are field replaceable and hot-swappable. Each fan tray contains two fans.	Switch has two fan tray slots and comes with one fan tray installed. Min 1 fan tray required. Optional second fan tray ordered separately. Fan trays are field replaceable and hot-swappable. Each fan tray contains two fans.	Switch has two fan tray slots and comes with two fan trays installed. Min 2 fan trays required. Fan trays are field replaceable and hot-swappable. Each fan tray contains two fans. Supports JL761A Pwr2Prt Fan Tray only.
<b>Physical characteristics</b>				
<b>Dimensions</b>	(H) 4.4 cm x (W) 44.2 cm x (D) 38.5 cm (1.73" x 17.4" x 15.2")	(H) 4.4 cm x (W) 44.2 cm x (D) 38.5 cm (1.73" x 17.4" x 15.2")	(H) 4.4 cm x (W) 44.2 cm x (D) 38.5 cm (1.73" x 17.4" x 15.2")	(H) 4.4 cm (W) 44.2 cm (D) 38.5 cm (1.73" x 17.4" x 15.2")
<b>Configuration weight</b>	5.55 kg (12.23 lbs)	5.51 kg (12.14 lbs)	5.43 kg (11.97 lbs)	1PSU: 5.7 kg (12.5 lbs) 2PSU: 6.27kg (13.8 lbs)

<sup>1</sup> 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.



## Technical specifications

	HPE Aruba Networking 6300M 24-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL662A)	HPE Aruba Networking 6300M 48-port 1GbE and 4-port SFP56 Switch (JL663A)	HPE Aruba Networking 6300M 24-port 1GbE and 4-port SFP56 Switch (JL664A)	HPE Aruba Networking 6300M 48-port 1GbE and 4-port SFP56 Power-to-Port 2 Fan Trays 1 PSU Bundle (JL762A)
<b>Additional specifications</b>				
<b>CPU</b>	Quad Core ARM Cortex™ A72 @ 1.8GHz	Quad Core ARM Cortex™ A72 @ 1.8GHz	Quad Core ARM Cortex™ A72 @ 1.8GHz	Quad Core ARM Cortex™ A72 @ 1.8GHz
<b>Memory and flash</b>	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC	8 GBytes DDR4 32 GBytes eMMC
<b>Packet buffer</b>	8 MB Packet Buffer Memory	8 MB Packet Buffer Memory	8 MB Packet Buffer Memory	8 MB Shared Packet Buffer Memory
<b>Performance</b>				
<b>Model switching capacity</b>	448 Gbps	496 Gbps	448 Gbps	496 Gbps
<b>Model throughput capacity</b>	334 Mpps	369 Mpps	334 Mpps	369 Mpps
<b>Average latency (LIFO-64-bytes packets)</b>	1Gbps: 2.28µSec 10Gbps: 1.46µSec 25Gbps: 1.90µSec 50Gbps <sup>1</sup> : 3.49µSec	1Gbps: 2.28µSec 10Gbps: 1.46µSec 25Gbps: 1.90µSec 50Gbps <sup>1</sup> : 3.49µSec	1Gbps: 2.28µSec 10Gbps: 1.46µSec 25Gbps: 1.90µSec 50Gbps <sup>1</sup> : 3.49µSec	1Gbps: 2.28µSec 10Gbps: 1.46µSec 25Gbps: 1.90µSec 50Gbps <sup>1</sup> : 3.49µSec
<b>Stack size</b>	10 members	10 members	10 members	10 members
<b>Max. stacking distance</b>	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers
<b>Stacking bandwidth</b>	200 Gbps	200 Gbps	200 Gbps	200 Gbps
<b>Switched virtual interfaces (dual stack)</b>	1,024	1,024	1,024	1,024
<b>IPv4 host table (ARP)</b>	49,152	49,152	49,152	49,152
<b>IPv6 host table (ND)</b>	49,152	49,152	49,152	49,152
<b>IPv4 unicast routes</b>	61,000	61,000	61,000	61,000
<b>IPv6 unicast routes</b>	61,000	61,000	61,000	61,000
<b>IPv4 multicast routes</b>	8,192	8,192	8,192	8,192
<b>IPv6 multicast routes</b>	8,192	8,192	8,192	8,192
<b>MAC table capacity</b>	32,768	32,768	32,768	32,768
<b>IGMP groups</b>	4,096	4,096	4,096	4,096
<b>MLD groups</b>	8,192	8,192	8,192	8,192
<b>IPv4/IPv6/MAC ACL entries (ingress)</b>	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480
<b>IPv4/IPv6/MAC ACL entries (egress)</b>	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192
<b>VRF</b>	256	256	256	256



## Technical specifications

	HPE Aruba Networking 6300M 24-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL662A)	HPE Aruba Networking 6300M 48-port 1GbE and 4-port SFP56 Switch (JL663A)	HPE Aruba Networking 6300M 24-port 1GbE and 4-port SFP56 Switch (JL664A)	HPE Aruba Networking 6300M 48-port 1GbE and 4-port SFP56 Power-to-Port 2 Fan Trays 1 PSU Bundle (JL762A)
<b>Environment</b>				
<b>Operating temperature</b>	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time.	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
<b>Operating relative humidity</b>	5% to 95% @ 104°F (40°C) non-condensing	5% to 95% @ 104°F (40°C) non-condensing	5% to 95% @ 104°F (40°C) non-condensing	5% to 95% @ 104°F (40°C) non-condensing
<b>Non-operating</b>	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft	-40°F to 158°F (-40°C to 70°C) up to 15000 ft
<b>Non-operating storage relative humidity</b>	5% to 95% @ 149°F (65°C) non-condensing	5% to 95% @ 149°F (65°C) non-condensing	5% to 95% @ 149°F (65°C) non-condensing	5% to 95% @ 149°F (65°C) non-condensing
<b>Max operating altitude</b>	10,000 feet (3.04 km) Max	10,000 feet (3.04 km) Max	10,000 feet (3.04 km) Max	10000 feet (3.04 km) Max
<b>Max non-operating altitude</b>	15,000 feet (4.6 km) Max	15,000 feet (4.6 km) Max	15,000 feet (4.6 km) Max	15000 feet (4.6 km) Max
<b>Acoustic</b>	Sound Power, L <sub>WAd</sub> = 4.7 Bel Sound Pressure, L <sub>pAm</sub> (Bystander) = 29.4 dB	Sound Power, L <sub>WAd</sub> = 4.6 Bel Sound Pressure, L <sub>pAm</sub> (Bystander) = 28.7 dB	Sound Power, L <sub>WAd</sub> = 4.6 Bel Sound Pressure, L <sub>pAm</sub> (Bystander) = 28.6 dB	Sound Power, L <sub>WAd</sub> = 5.0 Bel Sound Pressure, L <sub>pAm</sub> (Bystander) = 32.5 dB with 1 x JL760A PSU
<b>Primary airflow</b>	Front and side to back	Front and side to back	Front and side to back	Back to Front and Side
<b>Electrical characteristics</b>				
<b>Frequency</b>	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
<b>AC voltage</b>	JL670A PSU: 110V-120V/208V-240V JL086A PSU: 100V-240V JL087A PSU: 110V-240V	JL085A PSU: 100V-240V	JL085A PSU: 100V-240V	JL760A PSU: 100V-240V
<b>Current (for voltages listed above)</b>	JL670A PSU: 11A/8A JL086A PSU: 8A/3.5A JL087A PSU: 12A/5A	JL085A PSU: 3A/1.2A	JL085A PSU: 3A/1.2A	JL760A PSU: 3A-1.2A
<b>80plus.org certification</b>	-	-	-	TBA for JL760A PS.
<b>Power consumption (230VAC)</b>	With JL086A PSU: Idle: 60W 100% Traffic Rate: 76W  With JL087A PSU: Idle: 59W 100% Traffic Rate: 74W  With JL670A PSU: Idle: 62W 100% Traffic Rate: 81W	Idle: 56W 100% Traffic Rate: 75W	Idle: 49W 100% Traffic Rate: 64W	Idle: 56W 100% Traffic Rate: 75W



## Technical specifications

	<b>HPE Aruba Networking 6300M 24-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL662A)</b>	<b>HPE Aruba Networking 6300M 48-port 1GbE and 4-port SFP56 Switch (JL663A)</b>	<b>HPE Aruba Networking 6300M 24-port 1GbE and 4-port SFP56 Switch (JL664A)</b>	<b>HPE Aruba Networking 6300M 48-port 1GbE and 4-port SFP56 Power-to-Port 2 Fan Trays 1 PSU Bundle (JL762A)</b>
<b>Safety</b>				
	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013 EN 62368-1:2014 +A11:2017 US: UL 60950-1 2nd Ed.
	US: UL 60950-1 2nd Ed.	US: UL 60950-1 2nd Ed.	US: UL 60950-1 2nd Ed.	US: UL 60950-1 2nd Ed.
	Canada: CAN/CSA-C22.2 No. 60950-1-07	Canada: CAN/CSA-C22.2 No. 60950-1-07	Canada: CAN/CSA-C22.2 No. 60950-1-07	Canada: CAN/CSA-C22.2 No. 60950-1-07
	Worldwide: IEC 60950-1:2005 w/all known National Deviations	Worldwide: IEC 60950-1:2005 w/all known National Deviations	Worldwide: IEC 60950-1:2005 w/all known National Deviations	Worldwide: IEC 60950-1:2005 w/all known National Deviations IEC 62368-1:2014 2nd Ed.
				Taiwan: CNS-14336-1
<b>Emissions</b>				
	Europe: EN 55022:2010, Class A EN 55032:2012, Class A EN 55024:2010 EN 61000-3-2:2014 EN 61000-3-3:2013	Europe: EN 55022:2010, Class A EN 55032:2012, Class A EN 55024:2010 EN 61000-3-2:2014 EN 61000-3-3:2013	Europe: EN 55022:2010, Class A EN 55032:2012, Class A EN 55024:2010 EN 61000-3-2:2014 EN 61000-3-3:2013	Europe: EN 55032:2015 +AC:2016, Class A EN 55035:2017 EN 61000-3-2:2014 EN 61000-3-3:2013
	US: FCC part 15 Class A	US: FCC part 15 Class A	US: FCC part 15 Class A	US: FCC 47 CFR part 15B, Class A
	Canada: ICES-003 Class A	Canada: ICES-003 Class A	Canada: ICES-003 Class A	Canada: ICES-003 Class A
	Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	Worldwide: VCCI Class A CISPR 32 Ed 2.0: 2015 + COR1:2016, Class A CISPR 35:2016
<b>Lasers</b>				
	EN 60825-1:2007 / IEC 60825-1:2007 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)	EN 60825-1:2007 / IEC 60825-1:2007 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)	EN 60825-1:2007 / IEC 60825-1:2007 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)	EN 60825-1:2007 / IEC 60825-1:2007 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)
<b>Immunity</b>				
<b>Generic</b>	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35	CISPR 35
<b>EN</b>	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017	EN 55035:2017
<b>ESD</b>	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2



## Technical specifications

	HPE Aruba Networking 6300M 24-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL662A)	HPE Aruba Networking 6300M 48-port 1GbE and 4-port SFP56 Switch (JL663A)	HPE Aruba Networking 6300M 24-port 1GbE and 4-port SFP56 Switch (JL664A)	HPE Aruba Networking 6300M 48-port 1GbE and 4-port SFP56 Power-to-Port 2 Fan Trays 1 PSU Bundle (JL762A)
<b>Immunity</b>				
<b>Radiated</b>	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
<b>EFT/Burst</b>	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
<b>Surge</b>	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
<b>Conducted</b>	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
<b>Power frequency magnetic field</b>	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
<b>Voltage dips and interruptions</b>	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
<b>Harmonics</b>	IEC 61000-3-2, EN 61000-3-2	IEC 61000-3-2, EN 61000-3-2	IEC 61000-3-2, EN 61000-3-2	IEC 61000-3-2, EN 61000-3-2
<b>Flicker</b>	IEC 61000-3-3, EN 61000-3-3	IEC 61000-3-3, EN 61000-3-3	IEC 61000-3-3, EN 61000-3-3	IEC 61000-3-3, EN 61000-3-3
<b>Mounting and enclosure</b>				
	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.





## Technical specifications

	HPE Aruba Networking 6300F 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL665A)	HPE Aruba Networking 6300F 24-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL666A)	HPE Aruba Networking 6300F 48-port 1GbE and 4-port SFP56 Switch (JL667A)	HPE Aruba Networking 6300F 24-port 1GbE and 4-port SFP56 Switch (JL668A)
<b>Description</b>	48x ports 10/100/1000BaseT PoE+ Ports supporting up to 30W per port  4x 1G/10G/25G/50G <sup>1</sup> SFP ports  Supports PoE Standards IEEE 802.3af, 802.3at  1x USB-C Console Port 1x OOBM port 1x USB Type A Host port	24x ports 10/100/1000BaseT Ports supporting up to 30W per port  4x 1G/10G/25G/50G <sup>1</sup> SFP ports  1x USB-C Console Port 1x OOBM port 1x USB Type A Host port	48x ports 10/100/1000BaseT Ports  4x 1G/10G/25G/50G <sup>1</sup> SFP ports  1x USB-C Console Port 1x OOBM port 1x USB Type A Host port	24x ports 10/100/1000BaseT Ports  4x 1G/10G/25G/50G <sup>1</sup> SFP ports  1x USB-C Console Port 1x OOBM port 1x USB Type A Host port
<b>Power supplies</b>	Internal (fixed) power supply (950W)  Max PoE Power: 740W	Internal (fixed) power supply (950W)  Max PoE Power: 370W	Internal (fixed) power supply (200W)	Internal (fixed) power supply (200W)
<b>Fans</b>	Fixed fans	Fixed fans	Fixed fans	Fixed fans
<b>Physical characteristics</b>				
<b>Dimensions</b>	(H) 4.39 cm x (W) 44.2 cm x (D) 32.7 cm (1.73" x 17.4" x 12.9")	(H) 4.39 cm x (W) 44.2 cm x (D) 32.7 cm (1.73" x 17.4" x 12.9")	(H) 4.39 cm x (W) 44.2 cm x (D) 32.7 cm (1.73" x 17.4" x 12.9")	(H) 4.39 cm x (W) 44.2 cm x (D) 32.7 cm (1.73" x 17.4" x 12.9")
<b>Configuration weight</b>	5.10 kg (11.24 lbs)	4.95 kg (10.91 lbs)	4.46 kg (9.83 lbs)	4.36 kg (9.61 lbs)
<b>Additional specifications</b>				
<b>CPU</b>	Quad Core ARM Cortex™ A72 @ 1.8GHz	Quad Core ARM Cortex™ A72 @ 1.8GHz	Quad Core ARM Cortex™ A72 @ 1.8GHz	Quad Core ARM Cortex™ A72 @ 1.8GHz
<b>Memory and flash</b>	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC
<b>Packet buffer</b>	8 MB Packet Buffer Memory	8 MB Packet Buffer Memory	8 MB Packet Buffer Memory	8 MB Packet Buffer Memory

<sup>1</sup> 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.



## Technical specifications

	HPE Aruba Networking 6300F 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL665A)	HPE Aruba Networking 6300F 24-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL666A)	HPE Aruba Networking 6300F 48-port 1GbE and 4-port SFP56 Switch (JL667A)	HPE Aruba Networking 6300F 24-port 1GbE and 4-port SFP56 Switch (JL668A)
<b>Performance</b>				
<b>Model switching capacity</b>	496 Gbps	448 Gbps	496 Gbps	448 Gbps
<b>Model throughput capacity</b>	369 Mpps	334 Mpps	369 Mpps	334 Mpps
<b>Average latency (LIFO-64-bytes packets)</b>	1Gbps: 2.28µSec 10Gbps: 1.46µSec 25Gbps: 1.90µSec 50Gbps <sup>1</sup> : 3.49µSec	1Gbps: 2.28µSec 10Gbps: 1.46µSec 25Gbps: 1.90µSec 50Gbps <sup>1</sup> : 3.49µSec	1Gbps: 2.28µSec 10Gbps: 1.46µSec 25Gbps: 1.90µSec 50Gbps <sup>1</sup> : 3.49µSec	1Gbps: 2.28µSec 10Gbps: 1.46µSec 25Gbps: 1.90µSec 50Gbps <sup>1</sup> : 3.49µSec
<b>Stack size</b>	10 members	10 members	10 members	10 members
<b>Max. stacking distance</b>	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers
<b>Stacking bandwidth</b>	200 Gbps	200 Gbps	200 Gbps	200 Gbps
<b>Switched Virtual Interfaces (dual stack)</b>	1,024	1,024	1,024	1,024
<b>IPv4 host table (ARP)</b>	49,152	49,152	49,152	49,152
<b>IPv6 host table (ND)</b>	49,152	49,152	49,152	49,152
<b>IPv4 unicast routes</b>	61,000	61,000	61,000	61,000
<b>IPv6 unicast routes</b>	61,000	61,000	61,000	61,000
<b>IPv4 multicast routes</b>	8,192	8,192	8,192	8,192
<b>IPv6 multicast routes</b>	8,192	8,192	8,192	8,192
<b>MAC table capacity</b>	32,768	32,768	32,768	32,768
<b>IGMP groups</b>	4,096	4,096	4,096	4,096
<b>MLD groups</b>	8,192	8,192	8,192	8,192
<b>IPv4/IPv6/MAC ACL entries (ingress)</b>	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480
<b>IPv4/IPv6/MAC ACL entries (egress)</b>	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192
<b>VRF</b>	256	256	256	256

<sup>1</sup> 50G capability is for use with 50G DACs for both interconnect and VSF stacking. 50G 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 6300M switch models only. VSF stacking not supported on 1G ports.



## Technical specifications

	HPE Aruba Networking 6300F 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL665A)	HPE Aruba Networking 6300F 24-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL666A)	HPE Aruba Networking 6300F 48-port 1GbE and 4-port SFP56 Switch (JL667A)	HPE Aruba Networking 6300F 24-port 1GbE and 4-port SFP56 Switch (JL668A)
<b>Environment</b>				
<b>Operating temperature</b>	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft. Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft. Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft. Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft. Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time.
<b>Operating relative humidity</b>	5% to 95% @ 104°F (40°C) non-condensing	5% to 95% @ 104°F (40°C) non-condensing	5% to 95% @ 104°F (40°C) non-condensing	5% to 95% @ 104°F (40°C) non-condensing
<b>Non-operating</b>	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft
<b>Non-operating storage relative humidity</b>	5% to 95% @ 149°F (65°C) non-condensing	5% to 95% @ 149°F (65°C) non-condensing	5% to 95% @ 149°F (65°C) non-condensing	5% to 95% @ 149°F (65°C) non-condensing
<b>Max operating altitude</b>	10,000 feet (3.04 km) Max	10,000 feet (3.04 km) Max	10,000 feet (3.04 km) Max	10,000 feet (3.04 km) Max
<b>Max non-operating altitude</b>	15,000 feet (4.6 km) Max	15,000 feet (4.6 km) Max	15,000 feet (4.6 km) Max	15,000 feet (4.6 km) Max
<b>Acoustic</b>	Sound Power, L <sub>WAd</sub> = 5.2 Bel Sound Pressure, L <sub>pAm</sub> (Bystander) = 34.9 dB	Sound Power, L <sub>WAd</sub> = 5.0 Bel Sound Pressure, L <sub>pAm</sub> (Bystander) = 32.3 dB	Sound Power, L <sub>WAd</sub> = 4.9 Bel Sound Pressure, L <sub>pAm</sub> (Bystander) = 31.5 dB	Sound Power, L <sub>WAd</sub> = 4.9 Bel Sound Pressure, L <sub>pAm</sub> (Bystander) = 31.6 dB
<b>Primary airflow</b>	Front and side to back	Front and side to back	Front and side to back	Front and side to back
<b>Electrical characteristics</b>				
<b>Frequency</b>	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
<b>AC voltage</b>	Fixed PSU: 100V-120V/200V-240V	Fixed PSU: 100V-120V/200V-240V	Fixed PSU: 100V-120V/200V-240V	Fixed PSU: 100V-120V/200V-240V
<b>Current (for voltages listed above)</b>	Fixed PSU: 11A/6A	Fixed PSU: 11A/6A	Fixed PSU: 2.5A/1.4A	Fixed PSU: 2.5A/1.4A
<b>80plus.org certification</b>	-	-	-	-
<b>Power consumption (230VAC)</b>	Idle: 63W 100% Traffic Rate: 86W	Idle: 52W 100% Traffic Rate: 67W	Idle: 52W 100% Traffic Rate: 74W	Idle: 49W 100% Traffic Rate: 63W
<b>Safety</b>				
	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013
	US: UL 60950-1 2nd Ed.	US: UL 60950-1 2nd Ed.	US: UL 60950-1 2nd Ed.	US: UL 60950-1 2nd Ed.
	Canada: CAN/CSA-C22.2 No. 60950-1-07	Canada: CAN/CSA-C22.2 No. 60950-1-07	Canada: CAN/CSA-C22.2 No. 60950-1-07	Canada: CAN/CSA-C22.2 No. 60950-1-07
	Worldwide: IEC 60950-1:2005 w/all known National Deviations	Worldwide: IEC 60950-1:2005 w/all known National Deviations	Worldwide: IEC 60950-1:2005 w/all known National Deviations	Worldwide: IEC 60950-1:2005 w/all known National Deviations



## Technical specifications

	<b>HPE Aruba Networking 6300F 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL665A)</b>	<b>HPE Aruba Networking 6300F 24-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL666A)</b>	<b>HPE Aruba Networking 6300F 48-port 1GbE and 4-port SFP56 Switch (JL667A)</b>	<b>HPE Aruba Networking 6300F 24-port 1GbE and 4-port SFP56 Switch (JL668A)</b>
<b>Emissions</b>				
	Europe: EN 55022:2010, Class A EN 55032:2012, Class A EN 55024:2010 EN 61000-3-2:2014 EN 61000-3-3:2013	Europe: EN 55022:2010, Class A EN 55032:2012, Class A EN 55024:2010 EN 61000-3-2:2014 EN 61000-3-3:2013	Europe: EN 55022:2010, Class A EN 55032:2012, Class A EN 55024:2010 EN 61000-3-2:2014 EN 61000-3-3:2013	Europe: EN 55022:2010, Class A EN 55032:2012, Class A EN 55024:2010 EN 61000-3-2:2014 EN 61000-3-3:2013
	US: FCC part 15 Class A	US: FCC part 15 Class A	US: FCC part 15 Class A	US: FCC part 15 Class A
	Canada: ICES-003 Class A	Canada: ICES-003 Class A	Canada: ICES-003 Class A	Canada: ICES-003 Class A
	Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010
<b>Lasers</b>				
	EN 60825-1:2007 / IEC 60825-1:2007 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)	EN 60825-1:2007 / IEC 60825-1:2007 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)	EN 60825-1:2007 / IEC 60825-1:2007 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)	EN 60825-1:2007 / IEC 60825-1:2007 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)
<b>Immunity</b>				
<b>Generic</b>	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35
<b>EN</b>	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017
<b>ESD</b>	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
<b>Radiated</b>	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
<b>EFT/Burst</b>	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
<b>Surge</b>	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
<b>Conducted</b>	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
<b>Power frequency magnetic field</b>	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
<b>Voltage dips and interruptions</b>	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
<b>Harmonics</b>	IEC 61000-3-2, EN 61000-3-2	IEC 61000-3-2, EN 61000-3-2	IEC 61000-3-2, EN 61000-3-2	IEC 61000-3-2, EN 61000-3-2
<b>Flicker</b>	IEC 61000-3-3, EN 61000-3-3	IEC 61000-3-3, EN 61000-3-3	IEC 61000-3-3, EN 61000-3-3	IEC 61000-3-3, EN 61000-3-3



## Technical specifications

	<b>HPE Aruba Networking 6300F 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL665A)</b>	<b>HPE Aruba Networking 6300F 24-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL666A)</b>	<b>HPE Aruba Networking 6300F 48-port 1GbE and 4-port SFP56 Switch (JL667A)</b>	<b>HPE Aruba Networking 6300F 24-port 1GbE and 4-port SFP56 Switch (JL668A)</b>
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.



## Technical specifications

	<b>HPE Aruba Networking 6300M 24-port SFP+ and 4-port SFP56 Switch (JL658A)</b>	<b>HPE Aruba Networking 6300M 48-port HPE Smart Rate 1/2.5/5GbE Class 6 PoE and 4-port SFP56 Switch (JL659A)</b>	<b>HPE Aruba Networking 6300M 24-port HPE Smart Rate 1/2.5/5GbE Class 6 PoE and 4-port SFP56 Switch (JL660A)</b>	<b>HPE Aruba Networking 6300M 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL661A)</b>
<b>Description</b>	24x 1G/10G SFP+ ports  4x 1G/10G/25G <sup>1</sup> /50G SFP ports  1x USB-C Console Port 1x OOBM port 1x USB Type A Host port	48x ports SmartRate 100M <sup>2</sup> /1G/2.5G/5G BaseT Class 6 PoE ports supporting up to 60W per port  4x 1G/10G/25G <sup>1</sup> /50G SFP ports  Supports PoE Standards IEEE 802.3af, 802.3at and 802.3bt (up to 60W)  1x USB-C Console Port 1x OOBM port 1x USB Type A Host port	24x ports Smart Rate 100M <sup>2</sup> /1G/2.5G/5G BaseT Class 6 PoE ports supporting up to 60W per port  4x 1G/10G/25G <sup>1</sup> /50G SFP ports  Supports PoE Standards IEEE 802.3af, 802.3at and 802.3bt (up to 60W)  1x USB-C Console Port 1x OOBM port 1x USB Type A Host port	48x ports 10/100/1000 BaseT PoE+ ports supporting up to 30W per port  4x 1G/10G/25G <sup>1</sup> /50G SFP ports  Supports PoE Standards IEEE 802.3af, 802.3at  1x USB-C Console Port 1x OOBM port 1x USB Type A Host port
<b>Power supplies</b>	2 field-replaceable, hot-swappable power supply slots  1 minimum power supply required (ordered separately)  Supports JL085A PSU	2 field-replaceable, hot-swappable power supply slots  1 minimum power supply required (ordered separately)  Supported PSUs JL086A JL087A JL670A  Max PoE Power: 2880W	2 field-replaceable, hot-swappable power supply slots  1 minimum power supply required (ordered separately)  Supported PSUs JL086A JL087A JL670A  Max PoE Power: 1440W	2 field-replaceable, hot-swappable power supply slots  1 minimum power supply required (ordered separately)  Supported PSUs JL086A JL087A JL670A  Max PoE Power: 1440W
<b>Fans</b>	Switch has two fan tray slots and comes with two fan trays installed. Min 2 fan trays required. Fan trays are field replaceable and hot-swappable. Each fan tray contains two fans.	Switch has two fan tray slots and comes with two fan trays installed. Min 2 fan trays required. Fan trays are field replaceable and hot-swappable. Each fan tray contains two fans.	Switch has two fan tray slots and comes with one fan tray installed. Min 1 fan tray required. Fan trays are field replaceable and hot-swappable. Each fan tray contains two fans.	Switch has two fan tray slots and comes with one fan tray installed. Min 1 fan tray required. Fan trays are field replaceable and hot-swappable. Each fan tray contains two fans.
<b>Physical characteristics</b>				
<b>Dimensions</b>	(H) 4.4 cm x (W) 44.2 cm x (D) 38.5 cm (1.73" x 17.4" x 15.2")	(H) 4.4 cm x (W) 44.2 cm x (D) 38.5 cm (1.73" x 17.4" x 15.2")	(H) 4.4 cm x (W) 44.2 cm x (D) 38.5 cm (1.73" x 17.4" x 15.2")	(H) 4.4 cm x (W) 44.2 cm x (D) 38.5 cm (1.73" x 17.4" x 15.2")
<b>Configuration weight</b>	5.8 Kg (12.78 lbs)	6.71 kg (14.8 lbs)	6.06 (13.36 lbs)	5.72 kg (12.61 lbs)

<sup>1</sup> 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.

<sup>2</sup> 100M use on Smart Rate ports is limited to full-duplex only. For 100M half-duplex support, use 1G ports on other models.



## Technical specifications

	HPE Aruba Networking 6300M 24-port SFP+ and 4-port SFP56 Switch (JL658A)	HPE Aruba Networking 6300M 48-port HPE Smart Rate 1/2.5/5GbE Class 6 PoE and 4-port SFP56 Switch (JL659A)	HPE Aruba Networking 6300M 24-port HPE Smart Rate 1/2.5/5GbE Class 6 PoE and 4-port SFP56 Switch (JL660A)	HPE Aruba Networking 6300M 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL661A)
<b>Additional specifications</b>				
<b>CPU</b>	Quad Core ARM Cortex™ A72 @ 1.8GHz	Quad Core ARM Cortex™ A72 @ 1.8GHz	Quad Core ARM Cortex™ A72 @ 1.8GHz	Quad Core ARM Cortex™ A72 @ 1.8GHz
<b>Memory and flash</b>	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC
<b>Packet buffer</b>	8 MB Packet Buffer Memory	8 MB Packet Buffer Memory	8 MB Packet Buffer Memory	8 MB Packet Buffer Memory
<b>Performance</b>				
<b>Model switching capacity</b>	880 Gbps	880 Gbps	640 Gbps	496 Gbps
<b>Model throughput capacity</b>	654 Mpps	654 Mpps	476 Mpps	369 Mpps
<b>Average latency (LIFO-64-bytes packets)</b>	1Gbps: 1.99µSec 10Gbps: 1.49µSec 25Gbps: 2.85µSec 50Gbps <sup>1</sup> : 2.82µSec	1Gbps: 4.24µSec 10Gbps: 1.50µSec 25Gbps: 2.91µSec 50Gbps <sup>1</sup> : 3.49µSec	1Gbps: 4.24µSec 10Gbps: 1.50µSec 25Gbps: 2.91µSec 50Gbps <sup>1</sup> : 3.49µSec	1Gbps: 2.28µSec 10Gbps: 1.46µSec 25Gbps: 1.90µSec 50Gbps <sup>1</sup> : 3.49µSec
<b>Stack size</b>	10 members	10 members	10 members	10 members
<b>Max. stacking distance</b>	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers
<b>Stacking bandwidth</b>	200 Gbps	200 Gbps	200 Gbps	200 Gbps
<b>Switched virtual interfaces (dual stack)</b>	1,024	1,024	1,024	1,024
<b>IPv4 host table (ARP)</b>	49,152	49,152	49,152	49,152
<b>IPv6 host table (ND)</b>	49,152	49,152	49,152	49,152
<b>IPv4 unicast routes</b>	61,000	61,000	61,000	61,000
<b>IPv6 unicast routes</b>	61,000	61,000	61,000	61,000
<b>IPv4 multicast routes</b>	8,192	8,192	8,192	8,192
<b>IPv6 multicast routes</b>	8,192	8,192	8,192	8,192
<b>MAC table capacity</b>	32,768	32,768	32,768	32,768
<b>IGMP groups</b>	4,096	4,096	4,096	4,096
<b>MLD groups</b>	8,192	8,192	8,192	8,192
<b>IPv4/IPv6/MAC ACL entries (ingress)</b>	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480
<b>IPv4/IPv6/MAC ACL entries (egress)</b>	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192
<b>VRF</b>	256	256	256	256



## Technical specifications

	HPE Aruba Networking 6300M 24-port SFP+ and 4-port SFP56 Switch (JL658A)	HPE Aruba Networking 6300M 48-port HPE Smart Rate 1/2.5/5GbE Class 6 PoE and 4-port SFP56 Switch (JL659A)	HPE Aruba Networking 6300M 24-port HPE Smart Rate 1/2.5/5GbE Class 6 PoE and 4-port SFP56 Switch (JL660A)	HPE Aruba Networking 6300M 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL661A)
<b>Environment</b>				
<b>Operating temperature</b>	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft. Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time. Operating temperature is reduced to 32°F (0°C) to 104°F (40°C) up to 5000ft when 10G SFP+ LR or ER Transceivers are installed.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft. Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time. Requires two fan trays to support excursion.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft. Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time.
<b>Operating relative humidity</b>	5% to 95% @ 104°F (40°C) non-condensing	5% to 95% @ 104°F (40°C) non-condensing	5% to 95% @ 104°F (40°C) non-condensing	5% to 95% @ 104°F (40°C) non-condensing
<b>Non-operating</b>	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft
<b>Non-operating storage relative humidity</b>	5% to 95% @ 149°F (65°C) non-condensing	5% to 95% @ 149°F (65°C) non-condensing	5% to 95% @ 149°F (65°C) non-condensing	5% to 95% @ 149°F (65°C) non-condensing
<b>Max operating altitude</b>	10,000 feet (3.04 km) Max	10,000 feet (3.04 km) Max	10,000 feet (3.04 km) Max	10,000 feet (3.04 km) Max
<b>Max non-operating altitude</b>	15,000 feet (4.6 km) Max	15,000 feet (4.6 km) Max	15,000 feet (4.6 km) Max	15,000 feet (4.6 km) Max
<b>Acoustic</b>	Sound Power, L <sub>WAd</sub> = 4.9 Bel Sound Pressure, L <sub>pAm</sub> (Bystander) = 31.0 dB	Sound Power, L <sub>WAd</sub> = 4.8 Bel Sound Pressure, L <sub>pAm</sub> (Bystander) = 30.6 dB	Sound Power, L <sub>WAd</sub> = 5.2 Bel Sound Pressure, L <sub>pAm</sub> (Bystander) = 34.2 dB	Sound Power, L <sub>WAd</sub> = 4.7 Bel Sound Pressure, L <sub>pAm</sub> (Bystander) = 29.8 dB
<b>Primary airflow</b>	Front and side to back	Front and side to back	Front and side to back	Front and side to back
<b>Electrical characteristics</b>				
<b>Frequency</b>	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
<b>AC voltage</b>	JL085A PSU: 100V-240V	JL670A PSU: 110V-120V/208V-240V JL086A PSU: 100V-240V JL087A PSU: 110V-240V	JL670A PSU: 110V-120V/208V-240V JL086A PSU: 100V-240V JL087A PSU: 110V-240V	JL670A PSU: 110V-120V/208V-240V JL086A PSU: 100V-240V JL087A PSU: 110V-240V
<b>Current (for voltages listed above)</b>	JL085A PSU: 3A/1.2A	JL670A PSU: 11A/8A JL086A PSU: 8A/3.5A JL087A PSU: 12A/5A	JL670A PSU: 11A/8A JL086A PSU: 8A/3.5A JL087A PSU: 12A/5A	JL670A PSU: 11A/8A JL086A PSU: 8A/3.5A JL087A PSU: 12A/5A
<b>Power consumption (230VAC)</b>	Idle: 51W 100% Traffic Rate: 85W	With JL086A PSU: Idle: 133W 100% Traffic Rate: 199W  With JL087A PSU: Idle: 138W 100% Traffic Rate: 193W  With JL670A PSU: Idle: 140W 100% Traffic Rate: 201W	With JL086A PSU: Idle: 93W 100% Traffic Rate: 137W  With JL087A PSU: Idle: 91W 100% Traffic Rate: 131W  With JL670A PSU: Idle: 98W 100% Traffic Rate: 139W	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





## Technical specifications

	<b>HPE Aruba Networking 6300M 24-port SFP+ and 4-port SFP56 Switch (JL658A)</b>	<b>HPE Aruba Networking 6300M 48-port HPE Smart Rate 1/2.5/5GbE Class 6 PoE and 4-port SFP56 Switch (JL659A)</b>	<b>HPE Aruba Networking 6300M 24-port HPE Smart Rate 1/2.5/5GbE Class 6 PoE and 4-port SFP56 Switch (JL660A)</b>	<b>HPE Aruba Networking 6300M 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL661A)</b>
<b>Safety</b>				
	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013
	US: UL 60950-1 2nd Ed.	US: UL 60950-1 2nd Ed.	US: UL 60950-1 2nd Ed.	US: UL 60950-1 2nd Ed.
	Canada: CAN/CSA-C22.2 No. 60950-1-07	Canada: CAN/CSA-C22.2 No. 60950-1-07	Canada: CAN/CSA-C22.2 No. 60950-1-07	Canada: CAN/CSA-C22.2 No. 60950-1-07
	Worldwide: IEC 60950-1:2005 w/all known National Deviations	Worldwide: IEC 60950-1:2005 w/all known National Deviations	Worldwide: IEC 60950-1:2005 w/all known National Deviations	Worldwide: IEC 60950-1:2005 w/all known National Deviations
<b>Emissions</b>				
	Europe: EN 55022:2010, Class A EN 55032:2012, Class A EN 55024:2010 EN 61000-3-2:2014 EN 61000-3-3:2013	Europe: EN 55022:2010, Class A EN 55032:2012, Class A EN 55024:2010 EN 61000-3-2:2014 EN 61000-3-3:2013	Europe: EN 55022:2010, Class A EN 55032:2012, Class A EN 55024:2010 EN 61000-3-2:2014 EN 61000-3-3:2013	Europe: EN 55022:2010, Class A EN 55032:2012, Class A EN 55024:2010 EN 61000-3-2:2014 EN 61000-3-3:2013
	US: FCC part 15 Class A	US: FCC part 15 Class A	US: FCC part 15 Class A	US: FCC part 15 Class A
	Canada: ICES-003 Class A	Canada: ICES-003 Class A	Canada: ICES-003 Class A	Canada: ICES-003 Class A
	Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010
<b>Lasers</b>				
	EN 60825-1:2007 / IEC 60825-1:2007 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)	EN 60825-1:2007 / IEC 60825-1:2007 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)	EN 60825-1:2007 / IEC 60825-1:2007 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)	EN 60825-1:2007 / IEC 60825-1:2007 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)



## Technical specifications

	HPE Aruba Networking 6300M 24-port SFP+ and 4-port SFP56 Switch (JL658A)	HPE Aruba Networking 6300M 48-port HPE Smart Rate 1/2.5/5GbE Class 6 PoE and 4-port SFP56 Switch (JL659A)	HPE Aruba Networking 6300M 24-port HPE Smart Rate 1/2.5/5GbE Class 6 PoE and 4-port SFP56 Switch (JL660A)	HPE Aruba Networking 6300M 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL661A)
<b>Immunity</b>				
<b>Generic</b>	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35
<b>EN</b>	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017
<b>ESD</b>	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
<b>Radiated</b>	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
<b>EFT/Burst</b>	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
<b>Surge</b>	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
<b>Conducted</b>	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
<b>Power frequency magnetic field</b>	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
<b>Voltage dips and interruptions</b>	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
<b>Harmonics</b>	IEC 61000-3-2, EN 61000-3-2	IEC 61000-3-2, EN 61000-3-2	IEC 61000-3-2, EN 61000-3-2	IEC 61000-3-2, EN 61000-3-2
<b>Flicker</b>	IEC 61000-3-3, EN 61000-3-3	IEC 61000-3-3, EN 61000-3-3	IEC 61000-3-3, EN 61000-3-3	IEC 61000-3-3, EN 61000-3-3
<b>Mounting and enclosure</b>				
	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.



## Technical specifications

	<b>HPE Aruba Networking 6300L 48p Smart Rate 1G/2.5G/5G Class8/6 PoE 2p 50G and 2p 10G LRM L2 Switch (S3L77A)</b>	<b>HPE Aruba Networking 6300L 24p Smart Rate 1G/2.5G/5G/10G Class6 PoE 2p 50G and 2p 25G L2 Switch (S3L75A)</b>	<b>HPE Aruba Networking 6300L 48p Smart Rate 1G/2.5G/5G Class8 PoE 2p 50G and 2p 25G L2 Switch (S3L76A)</b>
<b>Description</b>	48x ports SmartRate 100M <sup>2</sup> /1G/2.5G/5G BaseT Class 8 PoE ports supporting up to 90W per port on ports 1-12, and up to 60W per port on ports 13-48 (MACsec) 2x 10G/25G/50G SFP ports 2x 1G/10G SFP ports (LRM + MACsec) Supports PoE Standards IEEE 802.3af, 802.3at and 802.3bt (up to 90W) 1x USB-C Console Port 1x RJ45 console port 1x OOBM 1x USB Type A Host port	24x ports SmartRate 100M <sup>2</sup> /1G/2.5G/5G/10G BaseT Class 6 PoE ports supporting up to 60W per port (MACsec) 2x 10G/25G/50G <sup>1</sup> SFP ports 2x 10G/25G SFP ports (MACsec) Supports PoE Standards IEEE 802.3af, 802.3at and 802.3bt (up to 60W) 1x USB-C Console Port 1x RJ Console Port 1x OOBM port 1x USB Type A Host port	48x ports SmartRate 100M <sup>2</sup> /1G/2.5G/5G BaseT Class 8 PoE ports supporting up to 90W per port (MACsec) 2x 10G/25G/50G <sup>1</sup> SFP ports 2x 10G/25G SFP ports (MACsec) Supports PoE Standards IEEE 802.3af, 802.3at and 802.3bt (up to 90W) 1x USB-C Console Port 1x RJ Console Port 1x OOBM port 1x USB Type A Host port
<b>Power supplies</b>	2 field-replaceable, hot-swappable power supply slots 1 minimum power supply required (ordered separately)  Supported PSUs JL086A JL087A JL670A JL758A Max PoE Power: 2880W	2 field-replaceable, hot-swappable power supply slots 1 minimum power supply required (ordered separately)  Supported PSUs JL086A JL087A JL670A JL758A Max PoE Power: 2880W	2 field-replaceable, hot-swappable power supply slots 1 minimum power supply required (ordered separately)  Supported PSUs JL086A JL087A JL670A JL758A Max PoE Power: 2880W
<b>Fans</b>	Switch has two fan tray slots and comes with two fan trays installed • Min 2 fan trays required. • Fan trays are field replaceable and hot-swappable. • Each fan tray contains two fans.	Switch has two fan tray slots and comes with two fan trays installed. • Min 2 fan trays required. • Fan trays are field replaceable and hot-swappable. • Each fan tray contains two fans.	Switch has two fan tray slots and comes with two fan trays installed • Min 2 fan trays required. • Fan trays are field replaceable and hot-swappable. • Each fan tray contains two fans.
<b>Physical characteristics</b>			
<b>Dimensions</b>	(H) 4.4 cm x (W) 44.2 cm x (D) 38.5 cm (1.73" x 17.4" x 15.2")	(H) 4.4 cm x (W) 44.2 cm x (D) 38.5 cm (1.73" x 17.4" x 15.2")	(H) 4.4 cm x (W) 44.2 cm x (D) 38.5 cm (1.73" x 17.4" x 15.2")
<b>Configuration weight</b>	5.47 kg (12.06 lbs)	5.26 kg (11.60 lbs)	5.48 kg (12.08 lbs)

<sup>1</sup> 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 S1J07A or S1J08A 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.

<sup>2</sup> 100M use on Smart Rate ports is limited to full-duplex only. For 100M half-duplex support, use 1G ports on other models.



## Technical specifications

	HPE Aruba Networking 6300L 48p Smart Rate 1G/2.5G/5G Class8/6 PoE 2p 50G and 2p 10G LRM L2 Switch (S3L77A)	HPE Aruba Networking 6300L 24p Smart Rate 1G/2.5G/5G/10G Class6 PoE 2p 50G and 2p 25G L2 Switch (S3L75A)	HPE Aruba Networking 6300L 48p Smart Rate 1G/2.5G/5G Class8 PoE 2p 50G and 2p 25G L2 Switch (S3L76A)
<b>Additional specifications</b>			
<b>CPU</b>	Quad Core ARM Cortex™ A72 @ 1.8GHz	Quad Core ARM Cortex™ A72 @ 1.8GHz	Quad Core ARM Cortex™ A72 @ 1.8GHz
<b>Memory and flash</b>	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC
<b>Packet buffer</b>	16 MB	16 MB	16 MB
<b>Performance</b>			
<b>Model switching capacity</b>	720 Gbps	780 Gbps	780 Gbps
<b>Model throughput capacity</b>	535 Mpps	580 Mpps	580 Mpps
<b>Average latency (LIFO-64-bytes packets)</b>	1Gbps: 4.24µSec 10Gbps: 1.50µSec 25Gbps: 2.91µSec 50Gbps: 3.49µSec	1Gbps: 4.24µSec 10Gbps: 1.50µSec 25Gbps: 2.91µSec 50Gbps: 3.49µSec	1Gbps: 4.24µSec 10Gbps: 1.50µSec 25Gbps: 2.91µSec 50Gbps: 3.49µSec
<b>Stack size</b>	10 members	10 members	10 members
<b>Max stacking distance</b>	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers
<b>Stacking bandwidth</b>	200 Gbps	200 Gbps	200 Gbps
<b>Switched virtual interfaces (dual stack)</b>	1,024	1,024	1,024
<b>IPv4 host table (ARP)</b>	49,152	49,152	49,152
<b>IPv6 host table (ND)</b>	NA <sup>2</sup>	NA <sup>2</sup>	NA <sup>2</sup>
<b>IPv4 unicast routes</b>	61,000	61,000	61,000
<b>IPv6 unicast routes</b>	NA <sup>2</sup>	NA <sup>2</sup>	NA <sup>2</sup>
<b>IPv4 multicast routes</b>	NA <sup>2</sup>	NA <sup>2</sup>	NA <sup>2</sup>
<b>IPv6 multicast routes</b>	NA <sup>2</sup>	NA <sup>2</sup>	NA <sup>2</sup>
<b>MAC table capacity</b>	32,768	32,768	32,768
<b>IGMP groups</b>	4,096	4,096	4,096
<b>MLD groups</b>	NA <sup>2</sup>	NA <sup>2</sup>	NA <sup>2</sup>
<b>IPv4/IPv6/MAC ACL entries (ingress)</b>	20,480/NA <sup>2</sup> /20,480	20,480/5,120/20,480	20,480/5,120/20,480
<b>IPv4/IPv6/MAC ACL entries (egress)</b>	8,192/NA <sup>2</sup> /8,192	8,192/NA <sup>2</sup> /8,192	8,192/NA <sup>2</sup> /8,192
<b>VRF</b>	1 default VRF, 1 management VRF	1 default VRF, 1 management VRF	1 default VRF, 1 management VRF

<sup>1</sup> 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 S1J07A or S1J08A 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.

<sup>2</sup> IPv6 and Multicast are not supported on CX 6300L series switches



## Technical specifications

	HPE Aruba Networking 6300L 48p Smart Rate 1G/2.5G/5G Class8/6 PoE 2p 50G and 2p 10G LRM L2 Switch (S3L77A)	HPE Aruba Networking 6300L 24p Smart Rate 1G/2.5G/5G/10G Class6 PoE 2p 50G and 2p 25G L2 Switch (S3L75A)	HPE Aruba Networking 6300L 48p Smart Rate 1G/2.5G/5G Class8 PoE 2p 50G and 2p 25G L2 Switch (S3L76A)
<b>Environment</b>			
<b>Operating temperature</b>	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft.  Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft.  Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1 degree C for every 1,000 ft from 5,000 ft to 10,000 ft.  Can support excursion to 131°F (55°C) for short periods <sup>1</sup> of time.
<b>Operating relative humidity</b>	5% to 95% @ 104°F (40°C) non-condensing	5% to 95% @ 104°F (40°C) non-condensing	5% to 95% @ 104°F (40°C) non-condensing
<b>Non-operating</b>	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft	-40°F to 158°F (-40°C to 70°C) up to 15,000 ft
<b>Non-operating storage relative humidity</b>	5% to 95% @ 149°F (65°C) non-condensing	5% to 95% @ 149°F (65°C) non-condensing	5% to 95% @ 149°F (65°C) non-condensing
<b>Max operating altitude</b>	10,000 feet (3.04 km) Max	10,000 feet (3.04 km) Max	10,000 feet (3.04 km) Max
<b>Max Non-operating altitude</b>	15,000 feet (4.6 km) Max	15,000 feet (4.6 km) Max	15,000 feet (4.6 km) Max
<b>Acoustic</b>	Sound Power, LWAd = 4.9 Bel Sound Pressure, LpAm (Bystander) = 32.6 dB	Sound Power, LWAd = 4.9 Bel Sound Pressure, LpAm (Bystander) = 33.0 dB	Sound Power, LWAd = 5.0 Bel Sound Pressure, LpAm (Bystander) = 33.4 dB
<b>Primary airflow</b>	Front and side to back	Front and side to back	Front and side to back
<b>Electrical characteristics</b>			
<b>Frequency</b>	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
<b>Input voltage</b>	JL670A PSU: 110V-120V/208V-240V JL086A PSU: 100V-240V JL087A PSU: 110V-240V	JL670A PSU: 110V-120V/208V-240V JL086A PSU: 100V-240V JL087A PSU: 110V-240V	JL670A PSU: 110V-120V/208V-240V JL086A PSU: 100V-240V JL087A PSU: 110V-240V
<b>Current (for voltages listed above)</b>	JL670A PSU: 11A/8A JL086A PSU: 8A/3.5A JL087A PSU: 12A/5A	JL670A PSU: 11A/8A JL086A PSU: 8A/3.5A JL087A PSU: 12A/5A	JL670A PSU: 11A/8A JL086A PSU: 8A/3.5A JL087A PSU: 12A/5A
<b>Power consumption (230VAC)</b>	With JL086A PSU: Idle: 104W 100% Traffic Rate: 168W With JL087A PSU: Idle: 104W 100% Traffic Rate: 168W With JL670A PSU: Idle: 113W 100% Traffic Rate: 179W	With JL086A PSU: Idle: 90W 100% Traffic Rate: 143W With JL087A PSU: Idle: 90W 100% Traffic Rate: 140W With JL670A PSU: Idle: 101W 100% Traffic Rate: 152W	With JL086A PSU: Idle: 104W 100% Traffic Rate: 173W With JL087A PSU: Idle: 104W 100% Traffic Rate: 173W With JL670A PSU: Idle: 115W 100% Traffic Rate: 184W

<sup>1</sup> No more than 96 consecutive hours and no more than 360 hours total (15 days) in 1 year.



## Technical specifications

	<b>HPE Aruba Networking 6300L 48p Smart Rate 1G/2.5G/5G Class8/6 PoE 2p 50G and 2p 10G LRM L2 Switch (S3L77A)</b>	<b>HPE Aruba Networking 6300L 24p Smart Rate 1G/2.5G/5G/10G Class6 PoE 2p 50G and 2p 25G L2 Switch (S3L75A)</b>	<b>HPE Aruba Networking 6300L 48p Smart Rate 1G/2.5G/5G Class8 PoE 2p 50G and 2p 25G L2 Switch (S3L76A)</b>
<b>Safety</b>			
<b>Include US, Canada, Europe, Worldwide</b>	Europe: EN 62368-1:2014 +A11:2017 2nd Ed. EN 62368-1:2020 +A11:2020 3rd Ed.  UK: BS EN 62368-1:2014 + A11:2017 2nd Ed BS EN 62368-1:2020 + A11:2020 3rd Ed  US/Canada: UL 62368-1 2nd Ed. CAN/CSA-C22.2 No. 62368-1-14 2nd Ed.  Worldwide:  IEC 62368-1:2018 3rd Ed. w/all known National Deviations "	Europe: EN 62368-1:2014 +A11:2017 2nd Ed. EN 62368-1:2020 +A11:2020 3rd Ed.  UK: BS EN 62368-1:2014 + A11:2017 2nd Ed BS EN 62368-1:2020 + A11:2020 3rd Ed  US/Canada: UL 62368-1 2nd Ed. CAN/CSA-C22.2 No. 62368-1-14 2nd Ed.  Worldwide: IEC 60950-1:2005 + Am1:2009 + Am2:2013 w/all known National Deviations  IEC 62368-1:2018 3rd Ed. w/all known National Deviations "	Europe: EN 62368-1:2014 +A11:2017 2nd Ed. EN 62368-1:2020 +A11:2020 3rd Ed.  UK: BS EN 62368-1:2014 + A11:2017 2nd Ed BS EN 62368-1:2020 + A11:2020 3rd Ed  US/Canada: UL 62368-1 2nd Ed. CAN/CSA-C22.2 No. 62368-1-14 2nd Ed.  Worldwide: IEC 60950-1:2005 + Am1:2009 + Am2:2013 w/all known National Deviations  IEC 62368-1:2018 3rd Ed. w/all known National Deviations "
<b>Emissions</b>			
<b>Include US, Canada, Europe, Worldwide</b>	Europe: EN 55032:2015 +A11:2020, Class A EN 55035:2017 +A11:2020 EN 61000-3-2:2014, Class A EN 61000-3-3:2013  US/Canada: FCC CFR47 Part 15:2014, Class A ICES-003 Class A  Worldwide: VCCI Class A CISPR 32 Class A CISPR 35:2016	Europe: EN 55032:2015 +A11:2020, Class A EN 55035:2017 +A11:2020 EN 61000-3-2:2014, Class A EN 61000-3-3:2013  US/Canada: FCC CFR47 Part 15:2014, Class A ICES-003 Class A  Worldwide: VCCI Class A CISPR 32 Class A CISPR 35:2016	Europe: EN 55032:2015 +A11:2020, Class A EN 55035:2017 +A11:2020 EN 61000-3-2:2014, Class A EN 61000-3-3:2013  US/Canada: FCC CFR47 Part 15:2014, Class A ICES-003 Class A  Worldwide: VCCI Class A CISPR 32 Class A CISPR 35:2016
<b>Lasers</b>			
<b>Include US, Canada, Europe, Worldwide</b>	EN 60825-1:2014 +A11:2021/ IEC 60825-1:2014 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)	EN 60825-1:2014 / IEC 60825-1:2014 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)	EN 60825-1:2014 / IEC 60825-1:2014 Class 1 Class 1 Laser Products / Laser Klasse 1 (Applicable for accessories: Optical Transceivers only)



## Technical specifications

	HPE Aruba Networking 6300L 48p Smart Rate 1G/2.5G/5G Class8/6 PoE 2p 50G and 2p 10G LRM L2 Switch (S3L77A)	HPE Aruba Networking 6300L 24p Smart Rate 1G/2.5G/5G/10G Class6 PoE 2p 50G and 2p 25G L2 Switch (S3L75A)	HPE Aruba Networking 6300L 48p Smart Rate 1G/2.5G/5G Class8 PoE 2p 50G and 2p 25G L2 Switch (S3L76A)
<b>Immunity</b>			
<b>Generic</b>	CISPR 35	CISPR 35	CISPR 35
<b>EN</b>	EN 55035:2017+A11:2020	EN 55035:2017+A11:2020	EN 55035:2017+A11:2020
<b>ESD</b>	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
<b>Radiated</b>	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
<b>EFT/Burst</b>	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
<b>Surge</b>	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
<b>Conducted</b>	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
<b>Power frequency magnetic field</b>	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
<b>Voltage dips and interruptions</b>	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
<b>Harmonics</b>	IEC 61000-3-2, EN 61000-3-2	IEC 61000-3-2, EN 61000-3-2	IEC 61000-3-2, EN 61000-3-2
<b>Flicker</b>	IEC 61000-3-3, EN 61000-3-3	IEC 61000-3-3, EN 61000-3-3	IEC 61000-3-3, EN 61000-3-3
<b>Mounting and enclosure</b>			
	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet. Horizontal surface mounting only. 2-post rack kit included.



## Standards and protocols

- ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
- CPU DoS Protection
- Bootstrap Router (BSR) Mechanism for PIM, PIM WG
- draft-ietf-savi-mix
- IEEE 802.1AB-2005
- IEEE 802.1ak-2007
- IEEE 802.1AX-2008 Link Aggregation
- IEEE 802.1D MAC Bridges
- IEEE 802.1p Priority
- IEEE 802.1Q VLANs
- IEEE 802.1s Multiple Spanning Trees
- IEEE 802.1t-2001
- IEEE 802.1v VLAN classification by Protocol and Port
- IEEE 802.1w Rapid Reconfiguration of Spanning Tree
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- IEEE 802.3ae 10-Gigabit Ethernet
- IEEE 802.3af Power over Ethernet
- IEEE 802.3at Power over Ethernet
- IEEE 802.3bt Power over Ethernet
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- IEEE 802.3x Flow Control
- IEEE 802.3z 1000BASE-X
- RFC 1122 Requirements for Internet Hosts -Communications Layers
- RFC 1215 Convention for defining traps for use with the SNMP
- RFC 1256 ICMP Router Discovery Messages
- RFC 1350 TFTP Protocol (revision 2)
- RFC 1393 Traceroute Using an IP Option
- RFC 1403 BGP OSPF Interaction
- RFC 1519 CIDR
- RFC 1542 BOOTP Extensions
- RFC 1583 OSPF Version 2
- RFC 1591 Domain Name System Structure and Delegation
- RFC 1657 Definitions of Managed Objects for BGP-4 using SMIv2
- RFC 1772 Application of the Border Gateway Protocol in the Internet
- RFC 1812 Requirements for IP Version 4 Router
- RFC 1918 Address Allocation for Private Internet
- RFC 1997 BGP Communities Attribute
- RFC 1998 An Application of the BGP Community Attribute in Multi-home Routing
- RFC 2131 DHCP
- RFC 2132 DHCP Options and BOOTP Vendor Extensions
- RFC 2236 IGMP
- RFC 2328 OSPF Version 2
- RFC 2375 IPv6 Multicast Address Assignments
- RFC 2385 Protection of BGP Sessions via the TCP MD5 Signature Option
- RFC 2401 Security Architecture for the Internet Protocol
- RFC 2402 IP Authentication Header
- RFC 2439 BGP Route Flap Damping
- RFC 2460 Internet Protocol, Version 6 (IPv6) Specification
- RFC 2464 Transmission of IPv6 over Ethernet Networks
- RFC 2545 Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing
- RFC 2576 (Coexistence between SNMP V1, V2, V3)
- RFC 2579 (SMIv2 Text Conventions)
- RFC 2580 (SMIv2 Conformance)
- RFC 2710 Multicast Listener Discovery (MLD) for IPv6
- RFC 2711 IPv6 Router Alert Option
- RFC 2787 Definitions of Managed Objects for the Virtual Router Redundancy Protocol
- RFC 2918 Route Refresh Capability for BGP-4
- RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only)
- RFC 2934 Protocol Independent Multicast MIB for IPv4
- RFC 3019 MLDv1 MIB
- RFC 3046 DHCP Relay Agent Information Option
- RFC 3056 Connection of IPv6 Domains via IPv4 Clouds
- RFC 3065 Autonomous System Confederation for BGP
- RFC 3068 An Anycast prefix for 6to4 Relay Route
- RFC 3137 OSPF Stub Router Advertisement sFlow
- RFC 3376 IGMPv3
- RFC 3416 (SNMP Protocol Operations v2)
- RFC 3417 (SNMP Transport Mappings)
- RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)
- RFC 3484 Default Address Selection for IPv6
- RFC 3509 Alternative Implementations of OSPF Area Border Routers
- RFC 3575 IANA Considerations for RADIUS
- RFC 3623 Graceful OSPF Restart
- RFC 3768 VRRP
- RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6
- RFC 3973 PIM Dense Mode
- RFC 4022 MIB for TCP
- RFC 4113 MIB for UDP
- RFC 4213 Basic Transition Mechanisms for IPv6 Hosts and Routers
- RFC 4251 The Secure Shell (SSH) Protocol
- RFC 4252 SSHv6 Authentication
- RFC 4253 SSHv6 Transport Layer
- RFC 4254 SSHv6 Connection





- RFC 4271 A Border Gateway Protocol 4 (BGP-4)
- RFC 4273 Definitions of Managed Objects for BGP-4
- RFC 4291 IP Version 6 Addressing Architecture
- RFC 4292 IP Forwarding Table MIB
- RFC 4293 Management Information Base for the Internet Protocol (IP)
- RFC 4360 BGP Extended Communities Attribute
- RFC 4419 Key Exchange for SSH
- RFC 4443 ICMPv6
- RFC 4456 BGP Route Reflection: An Alternative to Full Mesh Internal BGP (IBGP)
- RFC 4486 Subcodes for BGP Cease Notification Message
- RFC 4541 IGMP & MLD Snooping Switch
- RFC 4552 Authentication/Confidentiality for OSPFv3
- RFC 4601 PIM Sparse Mode
- RFC 4607 Source-Specific Multicast for IP
- RFC 4675 RADIUS VLAN & Priority
- RFC 4724 Graceful Restart Mechanism for BGP
- RFC 4760 Multiprotocol Extensions for BGP-4
- RFC 4861 IPv6 Neighbor Discovery
- RFC 4862 IPv6 Stateless Address Auto-configuration
- RFC 4940 IANA Considerations for OSPF
- RFC 5065 Autonomous System Confederation for BGP
- RFC 5095 Deprecation of Type 0 Routing Headers in IPv6
- RFC 5187 OSPFv3 Graceful Restart
- RFC 5340 OSPFv3 for IPv6
- RFC 5424 Syslog Protocol
- RFC 5492 Capabilities Advertisement with BGP-4
- RFC 5519 Multicast Group Membership Discovery MIB (MLDv2 only)
- RFC 5701 IPv6 Address Specific BGP Extended Community Attribute
- RFC 5722 Handling of Overlapping IPv6 Fragments
- RFC 5798 VRRP (exclude Accept Mode and sub-sec timer)
- RFC 5880 Bidirectional Forwarding Detection
- RFC 5905 Network Time Protocol Version 4: Protocol and Algorithms Specification
- RFC 6620 FCFS SAVI
- RFC 6987 OSPF Stub Router Advertisement
- RFC 7047 The Open vSwitch Database Management Protocol
- RFC 7313 Enhanced Route Refresh Capability for BGP-4
- RFC 768 User Datagram Protocol
- RFC 783 TFTP Protocol (revision 2)
- RFC 791 IP
- RFC 792 ICMP
- RFC 793 TCP
- RFC 813 Window and Acknowledgement Strategy in TCP
- RFC 815 IP datagram reassembly algorithms
- RFC 8201 Path MTU Discovery for IP version 6
- RFC 826 ARP
- RFC 879 TCP maximum segment size and related topics
- RFC 896 Congestion control in IP/TCP internetworks
- RFC 917 Internet subnets
- RFC 919 Broadcasting Internet Datagrams
- RFC 922 Broadcasting Internet Datagrams in the Presence of Subnets (IP\_BROAD)
- RFC 925 Multi-LAN address resolution
- RFC 951 BOOTP
- RFC 1027 Proxy ARP
- SNMPv1/v2c/v3
- RFC 4861 IPv6 Neighbor Discovery
- RFC 4862 IPv6 Stateless Address Auto-configuration
- ITU-T Rec G.8032/Y.1344 Mar. 2010
- RFC 1757 Remote Network Monitoring Management Information Base
- 2.5G/5GBASE-T (IEEE 802.3bz-2016), 2.5G/5G NBASE-T
- 10GBASE-T (IEEE 802.3an-2006)
- 25-Gigabit Ethernet (IEEE 802.3by-2016, 802.3cc-2017)
- 50-Gigabit Ethernet (IEEE 802.3cd-2018)
- RFC 3101 OSPF Not-so-stubby-area option
- RFC 4750 OSPFv2 MIB partial support no SetMIB

## HPE Aruba Networking CX 6300 switches and accessories

### Switch models

- HPE Aruba Networking CX 6300M 48p SR10 PTP/AVB Class8 PoE 4p 100G MACsec Switch (S0E91A)
- HPE Aruba Networking CX 6300M 48p SR10 PTP/AVB Class8 PoE 4p 100G MACsec TAA Switch (S0X44A)
- HPE Aruba Networking 6300M 24p HPE Smart Rate 1G/2.5G/5G/10G Class6 PoE and 2p 50G and 2p 25G Switch (R8S89A)
- HPE Aruba Networking 6300M 48p HPE Smart Rate 1G/2.5G/5G Class8 PoE and 2p 50G and 2p 25G Switch (R8S90A)
- HPE Aruba Networking 6300M 48SR5 12p Class8 PoE and 36p Class6 PoE HPE Smart Rate 1G/2.5G/5G and 2p 50G and 2p 10G LRM support Switch (R8S91A)
- HPE Aruba Networking 6300M 24p SFP+ LRM support and 2p 50G and 2p 25G MACsec Switch (R8S92A)
- HPE Aruba Networking 6300M 24-port SFP+ and 4-port SFP56 Switch (JL658A)
- HPE Aruba Networking 6300M 48-port HPE Smart Rate 1/2.5/5GbE Class 6 PoE and 4-port SFP56 Switch (JL659A)
- HPE Aruba Networking 6300M 24-port HPE Smart Rate 1/2.5/5GbE Class 6 PoE and 4-port SFP56 Switch (JL660A)



- HPE Aruba Networking 6300M 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL661A)
  - HPE Aruba Networking 6300M 24-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL662A)
  - HPE Aruba Networking 6300M 48-port 1GbE and 4-port SFP56 Switch (JL663A)
  - HPE Aruba Networking 6300M 24-port 1GbE and 4-port SFP56 Switch (JL664A)
  - HPE Aruba Networking 6300F 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL665A)
  - HPE Aruba Networking 6300F 24-port 1GbE Class 4 PoE and 4-port SFP56 Switch (JL666A)
  - HPE Aruba Networking 6300F 48-port 1GbE and 4-port SFP56 Switch (JL667A)
  - HPE Aruba Networking 6300F 24-port 1GbE and 4-port SFP56 Switch (JL668A)
  - HPE Aruba Networking 6300M 48-port 1GbE and 4-port SFP56 Power-to-Port 2 Fan Trays 1 PSU Bundle (JL762A)
  - HPE Aruba Networking 6300M 24p 10M/100M/1G Class4 PoE 4p SFP56 50G TAA Switch (S0F99A)
  - HPE Aruba Networking 6300M 48p 10M/100M/1G 4p SFP56 50G TAA Switch (S0G00A)
  - HPE Aruba Networking 6300M 24p 10M/100M/1G 4p SFP56 50G TAA Switch (S0G01A)
  - HPE Aruba Networking 6300M 24p SFP+ 1G/10G 4p SFP56 50G TAA Switch (S0G03A)
  - HPE Aruba Networking 6300M 48p Smart Rate 1G/2.5G/5G Class6 PoE 4p SFP56 50G TAA Switch (S0G04A)
  - HPE Aruba Networking 6300M 24p Smart Rate 1G/2.5G/5G Class6 PoE 4p SFP56 50G TAA Switch (S0G05A)
  - HPE Aruba Networking 6300M 48p 10M/100M/1G Class4 PoE 4p SFP56 50G TAA Switch (S0G06A)
  - HPE Aruba Networking 6300M 48p 10M/100M/1G 4p SFP56 50G Power-to-Port 2xFan PSU TAA Bundle (S0G02A)
  - HPE Aruba Networking 6300F 48p 10M/100M/1G Class4 PoE 4p SFP56 50G TAA Switch (S0G95A)
  - HPE Aruba Networking 6300F 24p 10M/100M/1G Class4 PoE 4p SFP56 50G TAA Switch (S0G96A)
  - HPE Aruba Networking 6300F 48p 10M/100M/1G 4p SFP56 50G TAA Switch (S0G97A)
  - HPE Aruba Networking 6300F 24p 10M/100M/1G 4p SFP56 50G TAA Switch (S0G98A)
- Layer 2 switch models**
- HPE Aruba Networking 6300L 24p Smart Rate 1G/2.5G/5G/10G Class6 PoE 2p 50G and 2p 25G L2 Switch (S3L75A)
  - HPE Aruba Networking 6300L 48p Smart Rate 1G/2.5G/5G Class8 PoE 2p 50G and 2p 25G L2 Switch (S3L76A)
  - HPE Aruba Networking 6300L 48p Smart Rate 1G/2.5G/5G Class8/6 PoE 2p 50G and 2p 10G LRM L2 Switch (S3L77A)
- Power supplies**
- HPE Aruba Networking X371 12VDC 250W 100-240VAC Power Supply (JL085A)
  - HPE Aruba Networking X372 54VDC 680W 100-240VAC Power Supply (JL086A)
  - HPE Aruba Networking X372 54VDC 1050W 110-240VAC Power Supply (JL087A)
  - HPE Aruba Networking X372 54VDC 1600W 110-240VAC Power Supply (JL670A)
  - HPE Aruba Networking X371 12VDC 250W 100-240VAC Power-to-Port Power Supply (JL760A)
  - HPE Aruba Networking 6300M 250W 36-72VDC PSU (JL757A)
  - HPE Aruba Networking 6300M 1050W 36-72VDC (JL758A)
- Fan trays**
- HPE Aruba Networking X751 Front to Back Fan Tray (JL669B)
  - HPE Aruba Networking 6300M Power-to-Port Fan Tray (JL761A)
  - HPE Aruba Networking X741 Port to Power Airflow Fan unit (JL714A)
- Accessories**
- HPE X410 1U Universal 4-post Rack Mount Kit (J9583A)
  - HPE Aruba Networking X414 1U Universal 4-pack Rack Mounting Kit (J9583B)
  - HPE Aruba Networking USB-A to RJ45 PC-to-Switch Cable (R9G48B)
  - HPE Aruba Networking USB-A to RJ45 PIN3TX-6RX Cable (R8Z87A)
  - HPE Aruba Networking USB-A to USB-C PC-to-Switch Cable (R9J32A)
  - HPE Aruba Networking USB-C to USB-C PC-to-Switch Cable (R9J33A)
  - HPE Aruba Networking CX Switch Bluetooth Adapter (S1H23A)
  - HPE QSFP28 to SFP28 Adapter (845970-B21)
- Transceivers**
- HPE Aruba Networking 100M SFP LC FX 2km MMF XCVR (J9054D)<sup>2</sup>
  - HPE Aruba Networking 1G SFP LC SX 500m MMF Transceiver (J4858D)
  - HPE Aruba Networking 1G SFP LC LX 10km SMF Transceiver (J4859D)
  - HPE Aruba Networking 1G SFP LC LH 70km SMF Transceiver (J4860D)
  - HPE Aruba Networking 1G SFP RJ45 T 100m Cat5e Transceiver (J8177D)
  - HPE Aruba Networking 1G SFP LC SX 500m MMF TAA Transceiver (JL745A)
  - HPE Aruba Networking 1G SFP LC LX 10km SMF TAA Transceiver (JL746A)

<sup>1</sup> 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 S1J07A or S1J08A 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.

<sup>2</sup> J9054D 100Mbps transceiver only supported in SFP+ ports on JL658A. 100Mbps transceivers are not supported in any SFP56 port on all models.

<sup>3</sup> J9152D XCVR natively supported only in the R8S91A and R8S92A models

<sup>5</sup> HPE QSFP28 to SFP28 Adapter (845970-B21) required to support 10G and 25G transceivers only when used with S0E91A and S0X44A switch models.



- HPE Aruba Networking 1G SFP RJ45 T 100m Cat5e TAA Transceiver (JL747A)
- HPE Aruba Networking 10G SFP+ LC SR 300m MMF Transceiver (J9150D)<sup>5</sup>
- HPE Aruba Networking 10G SFP+ LC LRM 220m MMF Transceiver (J9152D)<sup>3</sup>
- HPE Aruba Networking 10G SFP+ LC LR 10km SMF Transceiver (J9151E)<sup>5</sup>
- HPE Aruba Networking 10G SFP+ LC ER 40km SMF Transceiver (J9153D)<sup>5</sup>
- HPE Aruba Networking 10GBASE-T SFP+ RJ-45 30m Cat6A Transceiver (JL563B)<sup>5</sup>
- HPE Aruba Networking 10G SFP+ LC SR 300m MMF TAA Transceiver (JL748A)
- HPE Aruba Networking 10G SR SFP+ LC 400m OM4 C-XCVR (S2P30A)
- HPE Aruba Networking 10G LR SFP+ LC 10km SMF C-XCVR (S2P31A)
- HPE Aruba Networking 10G ER SFP+ LC 40km SMF C-XCVR (S2P32A)
- HPE Aruba Networking 25G SR SFP28 LC 100m MMF C-XCVR (S2P33A)
- HPE Aruba Networking 25G LR SFP28 LC 10km SMF C-XCVR (S2P34A)
- HPE Aruba Networking 10G SFP+ LC LR 10km SMF TAA Transceiver (JL749A)
- HPE Aruba Networking 25G SFP28 LC SR 100m MMF Transceiver (JL484A)<sup>5</sup>
- HPE Aruba Networking 25G SFP28 LC eSR 400m MMF Transceiver (JL485A)<sup>5</sup>
- HPE Aruba Networking 25G SFP28 LC LR 10km SMF Transceiver (JL486A)<sup>5</sup>
- HPE Aruba Networking 25G SFP LC LR 10km SMF TAA XCVR (S2N63A)
- Aruba 50G SFP56 LC SR 100m MMF XCVR (ROM48A)
- HPE Aruba Networking 50G eSR 300m MMF Transceiver (SOV64A)
- HPE Aruba Networking 50G LR 10km SMF Transceiver (SOV65A)
- HPE Aruba Networking 50G ER 40km SMF Transceiver (SOV66A)
- HPE Aruba Networking 25G ER LC 40km SMF Transceiver (SOV69A)<sup>5</sup>
- HPE Aruba Networking 50G BiDi 10km-Downstream 1330/1270 Transceiver (S1C92A)
- HPE Aruba Networking 50G BiDi 10km-Upstream 1270/1330 Transceiver (S1C94A)
- HPE Aruba Networking 100G SR2 MPO QSFP28 100m MMF Transceiver (S1C93A)<sup>4</sup>
- HPE Aruba Networking 4x100G DR QSFP-DD SN 500m SMF Transceiver (S3N90A)<sup>4</sup>
- HPE X142 40G QSFP+ MPO SR4 Transceiver (JH231A)<sup>4</sup>
- Aruba 100G QSFP28 MPO SR4 100m 12-fiber MPO MMF Transceiver (JL309A)<sup>4</sup>
- HPE Aruba Networking 100G LR QSFP28 LC SMF XCVR (S3N89A)<sup>4</sup>
- HPE X142 40G QSFP+ MPO eSR4 300M XCVR (JH233A)<sup>4</sup>
- HPE Aruba Networking 40G QSFP+ LC BiDi 150m MMF Transceiver (JL308A)<sup>4</sup>
- HPE X142 40G QSFP+ LC LR4 SM Transceiver (JH232A)<sup>4</sup>
- HPE Aruba Networking 40G QSFP+ LC ER4 40km SMF XCVR (Q9G82A)<sup>4</sup>
- HPE 100Gb QSFP28 Bi-directional XCVR (845972-B21)<sup>4</sup>
- HPE Aruba Networking 100G QSFP28 LC CWDM4 2km SMF Transceiver (ROZ30A)<sup>4</sup>
- HPE Aruba Networking 100 QSFP28 LC FR1 2km SMF Transceiver (R9B63A)<sup>4</sup>
- HPE Aruba Networking 100G QSFP28 LC LR4 10km SMF 2-strand Transceiver (JL310A)<sup>4</sup>
- HPE Aruba Networking 100G QSFP28 LC ER4L 40km SMF Transceiver (JL743A)<sup>4</sup>
- HPE Aruba Networking 25G BiDi 10km-Downstream 1330/1270 Transceiver (S1C96A)<sup>4</sup>
- HPE Aruba Networking 25G BiDi 10km-Upstream 1270/1330 Transceiver (S1C98A)<sup>4</sup>

**Cables**

- HPE Aruba Networking 50G QSFP56 to SFP56 0.65m DAC Cable (S1J07A)
- HPE Aruba Networking 50G QSFP56 to SFP56 3m DAC Cable (S1J08A)
- HPE Aruba Networking 10G SFP+ to SFP+ 1m Direct Attach Copper Cable (J9281D)
- HPE Aruba Networking 10G SFP+ to SFP+ 3m Direct Attach Copper Cable (J9283D)
- HPE Aruba Networking 25G SFP28 to SFP28 0.65m Direct Attach Copper Cable (JL487A)
- HPE Aruba Networking 25G SFP28 to SFP28 3m Direct Attach Copper Cable (JL488A)
- HPE Aruba Networking 25G SFP28 to SFP28 5m Direct Attach Copper Cable (JL489A)
- HPE Aruba Networking 50G SFP56 to SFP56 0.65m DAC Cable (ROM46A)<sup>1</sup>
- HPE Aruba Networking 50G SFP56 to SFP56 3m DAC Cable (ROM47A)<sup>1</sup>
- HPE X242 40G QSFP+ to QSFP+ 1m DAC Cable (JH234A)<sup>4</sup>
- HPE X242 40G QSFP+ to QSFP+ 3m DAC Cable (JH235A)<sup>4</sup>
- HPE X242 40G QSFP+ to QSFP+ 5m DAC Cable (JH236A)<sup>4</sup>
- HPE Aruba Networking 40G QSFP+ to QSFP+ 7m AOC (ROZ22A)<sup>4</sup>
- HPE Aruba Networking 40G QSFP+ to QSFP+ 15m AOC (ROZ23A)<sup>4</sup>
- HPE Aruba Networking 40G QSFP+ to QSFP+ 30m AOC (ROZ24A)<sup>4</sup>
- HPE Aruba Networking 100G QSFP28-QSFP28 3m DAC Cable (JL307A)<sup>4</sup>
- HPE Aruba Networking 100G QSFP28 to QSFP28 1m Direct Attach Copper Cable (ROZ25A)<sup>4</sup>
- HPE Aruba Networking 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable (JL307A)<sup>4</sup>
- HPE Aruba Networking 100G QSFP28 to QSFP28 5m Direct Attach Copper Cable (ROZ26A)<sup>4</sup>

<sup>4</sup> QSFP+ and QSFP28 products for use with S0E91A and S0X44A switch models only

<sup>5</sup> HPE QSFP28 to SFP28 Adapter (845970-B21) required when used with S0E91A and S0X44A switch models.



- HPE Aruba Networking 100G QSFP28 to QSFP28 2m AOC (JL856A)<sup>4</sup>
- HPE Aruba Networking 100G QSFP28 to QSFP28 7m AOC (ROZ27A)<sup>4</sup>
- HPE Aruba Networking 100G QSFP28 to QSFP28 15m AOC (ROZ28A)<sup>4</sup>
- HPE Aruba Networking 100G QSFP28 to QSFP28 30m AOC (ROZ29A)<sup>4</sup>

#### Software

- HPE Aruba Networking CX Mobile App <https://www.arubanetworks.com/products/networking/switches/cx-mobileapp/>
- HPE Aruba Networking Switch Multi-Edit Software Single Node: 1 year (JL639AAE)
- HPE Aruba Networking Switch Multi-Edit Software Single Node: 3 years (JL640AAE)

#### HPE Aruba Networking CX Advanced feature packs

- HPE Aruba Networking CX Soft 63xx Sw Adv 10y E-STU (SOT76AAE)
- HPE Aruba Networking CX Soft 63xx Sw Adv 1y E-STU (SOT77AAE)
- HPE Aruba Networking CX Soft 63xx Sw Adv 3y E-STU (SOT78AAE)
- HPE Aruba Networking CX Soft 63xx Sw Adv 5y E-STU (SOT79AAE)
- HPE Aruba Networking CX Soft 63xx Sw Adv 7y E-STU (SOT80AAE)

#### HPE Aruba Networking Central Foundational licenses

- HPE Aruba Networking Central Switch 6300/38xx Foundational 1 year Subscription E-STU (Q9Y78AAE)
- HPE Aruba Networking Central Switch 6300/38xx Foundational 3 year Subscription E-STU (Q9Y79AAE)
- HPE Aruba Networking Central Switch 6300/38xx Foundational 5 year Subscription E-STU (Q9Y80AAE)

- HPE Aruba Networking Central Switch 6300/38xx Foundational 7 year Subscription E-STU (Q9Y81AAE)
- HPE Aruba Networking Central Switch 6300/38xx Foundational 10 year Subscription E-STU (R3K02AAE)
- HPE Aruba Networking Central 63xx or 38xx Switch Foundational 1 year Subscription E-STU (Q9Y78AAE)
- HPE Aruba Networking Central On-Premises 63xx or 38xx Switch Foundational 1 year Subscription E-STU (R6U83AAE)
- HPE Aruba Networking Central On-Premises 63xx or 38xx Switch Foundational 3 year Subscription E-STU (R6U84AAE)
- HPE Aruba Networking Central 63xx or 38xx Switch Foundational 3 year Subscription E-STU (Q9Y79AAE)
- HPE Aruba Networking Central On-Premises 63xx or 38xx Switch Foundational 5 year Subscription E-STU (R6U85AAE)
- HPE Aruba Networking Central 63xx or 38xx Switch Foundational 5 year Subscription E-STU (Q9Y80AAE)
- HPE Aruba Networking Central On-Premises 63xx or 38xx Switch Foundational 7 year Subscription E-STU (R6U86AAE)
- HPE Aruba Networking Central 63xx or 38xx Switch Foundational 7 year Subscription E-STU (Q9Y81AAE)
- HPE Aruba Networking Central On-Premises 63xx or 38xx Switch Foundational 10 year Subscription E-STU (R6U87AAE)
- HPE Aruba Networking Central 63xx or 38xx Switch Foundational 10 year Subscription E-STU (R3K02AAE)

For details and complete listing of HPE Aruba Networking Central licensing options, please refer to the [HPE Aruba Networking Central Data Sheet](#)

#### HPE Aruba Networking Fabric Composer

- HPE Aruba Networking Fabric Composer Device Management Service Tier 3 Switch 1 year Subscription E-STU (R8D18AAE)
- HPE Aruba Networking Fabric Composer Device Management Service Tier 3 Switch 3 year Subscription E-STU (R8D19AAE)
- HPE Aruba Networking Fabric Composer Device Management Service Tier 3 Switch 5 year Subscription E-STU (R8D20AAE)

#### Support

- JL658A: 4 Hour Onsite 3 Year (HR4C9E)
- JL659A: 4 Hour Onsite 3 Year (HR4R3E)
- JL660A: 4 Hour Onsite 3 Year (HL5Z0E)
- JL661A: 4 Hour Onsite 3 Year (HR4Z8E)
- JL662A: 4 Hour Onsite 3 Year (HL6R3E)
- JL663A: 4 Hour Onsite 3 Year (HR5N2E)
- JL664A: 4 Hour Onsite 3 Year (HL7J3E)
- JL665A: 4 Hour Onsite 3 Year (HR5W0E)
- JL666A: 4 Hour Onsite 3 Year (HR6E5E)
- JL667A: 4 Hour Onsite 3 Year (HR6P0E)
- JL668A: 4 Hour Onsite 3 Year (HR6X5E)
- JL762A: 4 Hour Onsite 3 Year (HR5N2E)

For HPE Aruba Networking Central hardware only support, 24x7 TAC support, and many other support options, go to [Support Services HPE Aruba Networking SKU lookup tool](#).

<sup>5</sup> HPE QSFP28 to SFP28 Adapter (845970-B21) required when used with S0E91A and S0X44A switch models.



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