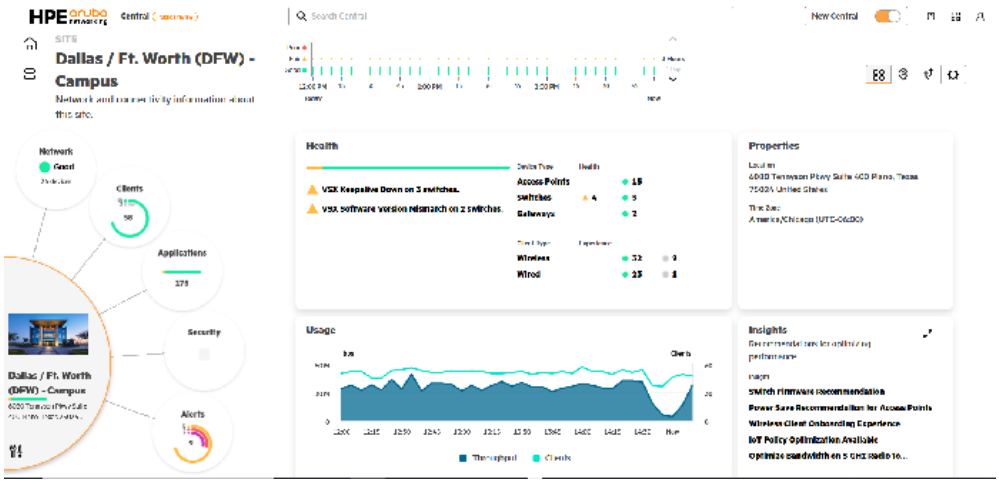
HPE Aruba Networking Central

AI-native, cloud-managed networking for branch, campus, remote, and data center networks



Key features

- Unified management and control of wireless, wired, VPN, and SD-WAN for simplified operations.
- Seamless application of zero trust security principles through a comprehensive suite of integrated, cloud-native tools—minimizing operational overhead, simplifying integration, and eliminating redundant investments.
- Third-party monitoring with expanded observability for heterogeneous environments.
- Network fabric orchestration, intent-based policy engine and access controls for unified policy management, automated network provisioning, and zero trust security at scale.

HPE Aruba Networking Central is-a powerful cloud-managed, microservices-based network management solution offers simplicity and scalability for today's IT operations. As the management and orchestration console for HPE Aruba Networking devices, it provides a single point of control to oversee every aspect of wired and wireless LANs, WANs, and VPNs across campus, branch, remote, and data center locations.

HPE Aruba Networking Central is scalable, resilient, and driven by intuitive workflows and dashboards that make it a perfect fit for businesses with limited IT personnel.

With intuitive navigation, network time travel, scalable topology visualizations, near real-time visibility, and advanced AI functionality, HPE Aruba Networking Central simplifies the way IT personnel interact with the network.

Intuitive contextual observability

HPE Aruba Networking Central delivers a holistic, connectivity experience with enhanced network visibility and monitoring across devices, clients, and applications.

- **NOC Dashboard:** Offers a dynamic, centralized view of network health, usage, events, and properties—bringing clarity across all network entities.
- **Solar system view:** Seamlessly connects data across sites, devices, clients, and applications, making network navigation and discovery intuitive and efficient.
- **Time travel:** Enables precise historical analysis with minute-level granularity over a 7-day window, streamlining root cause identification and reducing manual effort.
- **Sunburst topology:** Visualizes the network's physical and logical structure with layered context filters, simplifying configuration and accelerating issue resolution.

Key features (continued)

- Enhanced insights and recommendations powered by a growing set of AI-trained models, continuously updated with telemetry from millions of network devices and billions of unique endpoints.
- Application programming interfaces (APIs) and webhooks to augment the value of other leading IT platforms in your environment.
- Integration with HPE Aruba Networking User Experience Insight (UXI) to proactively monitor and improve the end-user experience.
- Monitor HPE Aruba Networking EdgeConnect SD-WAN devices, managed by HPE Aruba Networking WAN Orchestrator.
- SaaS, on-premises, MSP, NaaS, and virtual private cloud managed service options for flexible consumption and financing.

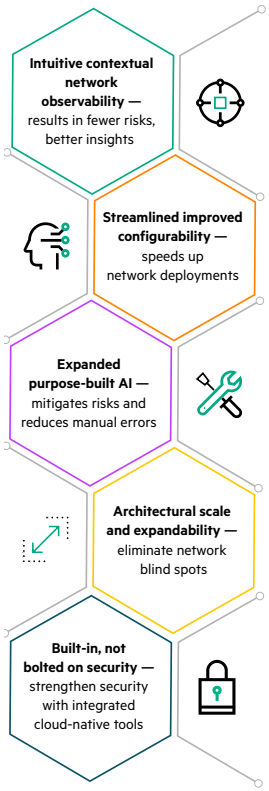


Figure 1. Key features of HPE Aruba Networking Central

- **AI-native assurance & alerts:** Delivers intelligent diagnostics and actionable insights, helping teams respond faster to performance anomalies.
- **Application visibility & security:** Tracks over 4000 applications and integrates with BrightCloud for web content analysis—providing deep visibility into app usage, security risks, and performance trends.
- **Third-party observability:** HPE Aruba Networking Central OpsRamp Extension enhances network observability by integrating third-party monitoring capabilities. By providing comprehensive visibility and control over heterogeneous network devices, it ensures users have a true single plane of glass.
- **Application health:** Monitor app health, prioritize critical services by enforcing usage by site, device, or location. Observe VoIP performance from UCC apps such as Zoom, Slack, and Teams, including MOS scores and insights on RF performance and capacity concerns.
- **HPE Aruba Networking UXI integration:** View network and application health as captured by HPE Aruba Networking UXI sensors. Quickly co-relate network and user side of digital experience performance and optimize it for seamless experience.
- **Live events:** Issue occurrence time, device name, type, category, description, and packet logs; rich command line tools are captured and diagnostic checks such as ping tests, traceroutes, and device-level performance tests are performed to troubleshoot issues. These details can be sent to the HPE Aruba Networking TAC team in real time through live action.
- **Comprehensive reports:** Offers an extensive set of reporting capabilities on device connectivity, network and application health, throughput, usage data, device inventory, activity auditing, capacity planning, including the ability to baseline and compare user experience across various sites in the network.
- **Extend observability to IoT:** Unify visibility of IT and OT infrastructure within the network health dashboard by extending network monitoring and insights to BLE, Zigbee, and other non-IP IoT devices in the physical environment along with IP-based IoT devices. The integrated app store reduces the complexity of deploying new IoT services, which requires specialized components and skills.

Expanded, purpose-built AI

HPE Aruba Networking Central includes an expanded set of AI-trained models that deliver improved insights and recommendations, helping to synthesize information and simplify decision-making. These models, which continue to grow monthly, are built on telemetry from millions of network devices and billions of unique endpoints on the HPE GreenLake cloud and drive several advanced capabilities.

- **AI search:** GenAI powered search leverages proprietary large language models (LLMs) tailored for networking to deliver instant summaries of the latest validated reference documents (VRDs) and technical materials, all with strong security safeguards.
- **AI insights:** Provides intelligent, context-aware recommendations for firmware upgrades, performance tuning across wired, wireless, and WAN environments, and energy-saving strategies—helping reduce reliance on external professional services. Recent additions like roaming optimization, DFS configuration tuning, and coverage hole detection further expand its capabilities. More insights are available; refer to the technical documentation.
- **Comprehensive client profiling:** Uses agentless, AI-native techniques to analyze dynamic device attributes and behavioral patterns—such as connection status and network presence—to accurately identify and classify both IoT and traditional endpoints with near-perfect precision.



Indoor access points



Outdoor access points



Remote access points



Switches



SD-WAN gateways



WLAN/VPN gateways

Figure 2. List of supported devices

- **Advanced IoT policy optimization:** Applies AI-native analysis to enhance IoT security by detecting anomalies and generating least-privilege access policies. This dramatically simplifies policy management by distilling thousands of network flows into a handful of optimized rules, covering nearly all IoT activity and minimizing manual effort.
- **Agentic AI Mesh:** Agentic AI Mesh in HPE Aruba Networking Central introduces a multi-agent system with 15 specialized agents and an orchestration super-agent. This intelligent framework delivers autonomous diagnostics, self-healing capabilities, and AI-driven insights—empowering IT teams to optimize network performance, enhance security, and reduce operational overhead across hybrid environments.
- **AI-based connectivity insights:** Automatically detect and diagnose Wi-Fi connectivity issues—including DHCP conflicts, DNS resolution failures, and authentication errors—ensuring seamless user experience. For wired networks, IT operators gain comprehensive visibility into port status, PoE utilization, VLAN configurations, device and neighbor relationships, power metrics, and more, enabling proactive infrastructure management.
- **Wireless optimization techniques:** The proliferation of cloud, IoT, bandwidth intensive 8K video, and AR/VR applications, along with poor building conditions can have a crippling effect on network performance and end-user experience. Central manages and controls HPE Aruba Networking access points (APs) switches and optional gateways to deliver greater scalability, security, and AI-powered optimization. Some key capabilities are:
  - **Dynamic power save mode:** APs switch into a dynamic power save mode and automatically wake up at a schedule when connectivity demand arises, reducing power demands and saving money in alignment with the organization's sustainability initiatives.
  - **SLA-grade application QoS:** Air Slice ensures high performance and improved user experience. It dynamically allocates radio resources for latency-sensitive apps like AR/VR, Zoom, Teams, Slack, and IoT.
  - **RF management optimization:** Enhance wireless coverage and capacity using AirMatch: Built-in AI/ML analyzes periodic RF data across the network to adjust AP settings dynamically based on changing conditions.
  - **Client connectivity optimization:** Enhance traditional radio and roaming techniques with ClientMatch, a patented RF optimization technology that continually enhances client connectivity and eliminates sticky clients.

Streamlined, improved configurability

Simplify the onboarding, provisioning, configuration, and maintenance of HPE Aruba Networking wired and wireless networks, as well as security policies, through a true intent-based network management experience—where you define business goals and the system automatically configures the network to meet them, all at scale. Traditional, fragmented templates and workflows that limit scalability are replaced by a modern, unified approach with the following capabilities:

- **Unified configuration across APs, switches, and gateways:** Converts high-level intent into device-specific configurations, regardless of hardware type. Administrators can provision switches, access points, and gateways using a single UI workflow or REST API call, simplifying day-one provisioning.
- **Hierarchical (multi-level) configuration:** Supports granular, enterprise-grade setup at every level—from global to individual devices—enabling rapid configuration changes and empowering lean IT teams to manage large-scale networks with ease.

- **Configuration library:** Enables the use of shared, reusable profiles across multiple devices and sites—streamlining setup, ensuring configuration consistency, and accelerating deployment. Updates to shared profiles automatically cascade across all linked devices, simplifying large-scale change management.
- **Comprehensive API support:** Delivers uniform, device-agnostic APIs across all devices and locations providing enhanced programmability and seamless integration with HPE Aruba Networking and third-party platforms.
- **Guided setup wizard:** The setup wizard automatically adds account subscriptions, matches device inventory from orders, and assigns purchased licenses, improving accuracy and saving time.
- **Automatic AP placement and Floorplan manager:** The redesigned floorplan manager simplifies wireless planning with intuitive site, building, and floor configurations. It now supports self-locating HPE Aruba Networking access points using embedded GPS and FTM, along with automated heatmaps, wall mapping, presence analytics, and actionable insights—streamlining network management and improving coverage.
- **Onboarding and provisioning:** Accelerated device onboarding, configuration, and provisioning with flexible options of templates and UI groups for all supported network devices at the device, group, and managed service provider (MSP) levels. Templates use scripts and conditional statements while UI offers guided, step-by-step workflows. IT admins can use groups to instantly apply or modify configurations across multiple devices. MSP support for UI and template configuration allows the bulk configuration of CX switches and HPE Aruba Networking OS gateways across multiple tenant accounts.
- **Smart Device Access & Sharing:** Unique enterprise-class capability of HPE Aruba Networking AirGroup that offers an efficient way to access shared devices such as printers and conference room Apple TVs (Apple® AirPrint and AirPlay) based on user, name, role, or user location.
- **Extend operations to IoT:** The integrated app store reduces the complexity of deploying new IoT services, which requires specialized components and skills. Customers can seamlessly download and deploy best-of-breed apps from leading IoT partners in a couple of clicks within this platform.

These capabilities reflect the breadth of Central's evolving platform—designed to meet a wide range of enterprise and MSP requirements.

Architectural scale and expandability

Built on a microservices architecture and deployed across global public cloud clusters on AWS, Azure, and GCP™, HPE Aruba Networking Central is engineered for high availability and enterprise-grade scalability. Its distributed design ensures GDPR compliance and supports rapid expansion, while offering the flexibility to seamlessly integrate advanced capabilities as business needs evolve.

- **Deployment options:** Central now supports a full spectrum of deployment models as follows:
  - **SaaS (Software-as-a-Service):** offers rapid scalability, high availability, and continuous innovation with minimal overhead. With numerous global SaaS Points of Presence (POPs), it ensures optimal performance and meets regional data sovereignty requirements—delivering a secure, responsive experience wherever your network operates.
  - **On-premises:** For organizations requiring full control over data and infrastructure, the on-prem deployment delivers HPE Aruba Networking Central's feature set within private environments.



Figure 3. Compliance standards followed

  - **VPC (Virtual Private Cloud):** A hybrid model that combines the benefits of SaaS with dedicated cloud resources, ideal for regulated industries needing isolation and compliance.
  - **MSP (Managed Service Provider):** Enables service providers to deliver Central capabilities to their customers with multi-tenancy, delegated administration, and customizable service tiers.
  - **Network as a service (NaaS):** Customers desiring a cloud-like experience for the entire networking stack can also consume HPE Aruba Networking Central through a NaaS subscription with HPE GreenLake for Networking.
- **Flexible integration:** Central's architecture supports seamless integration with platforms like Microsoft Teams, Ekahau, and Intune—enabling collaborative workflows, precision wireless planning, and proactive performance monitoring. These integrations extend Central's functionality beyond traditional network management, allowing IT teams to optimize user experience, streamline operations, and adapt quickly to evolving enterprise demands.

Built-in, not bolted on security

Central's cloud-native security architecture embeds key security functions directly into the network management system, eliminating the need for separate tools. This unified approach reduces complexity and cost, while enabling scalable enforcement and faster threat response across the network.

- **Global policy automation and orchestration:** HPE Aruba Networking Central policy manager empowers IT to define and maintain global policies at scale across campus, branches, and data centers, with ease, using UI-driven, intuitive workflows that automatically translate security intent into policy design and map user roles for employees, contractors, guests, and devices to their proper access privileges.
- **Central Network Access Control (NAC) for cloud-based network access control:** Provide secure access to network with advanced network access control in Central. Central NAC streamlines end-user authentication for wired and wireless networks, offering a range of authentication methods like EAP-TLS, MAC Auth, Captive Portal, MPSK (admin and user managed). Delivered via Central, the solution leverages AI-native Central Client Insights for device profiling and content-based policy creation. Central NAC integrates with leading IDPs like Google Workspace™, Microsoft Entra ID, Okta, and offer integration with social login for visitor access. Support for BYOC, multiple IDPs, and third-party NAD ensures that Central NAC meets complex network access control needs of today's fast growing enterprises. Within the associated monitoring dashboard, administrators have visibility into access requests, connected sessions, identity stores breakdown, top sites by authentication, and more, helping IT continuously refine and strengthen security.
- **Client Insights:** Continuous, AI-native device discovery and profiling enable real-time visibility into every endpoint including IoT devices—whether managed, unmanaged. Reduce blind spots, identify anomalous behavior, and ensure only trusted devices access the network.
- **SD-Branch orchestration:** HPE Aruba Networking EdgeConnect SD-Branch simplifies branch connectivity by replacing costly, complex legacy WAN solutions with an all-in-one SD-WAN platform. Integrated with wired and wireless infrastructure and managed via HPE Aruba Networking Central, it streamlines WAN operations and enhances user experience. IT teams can centrally manage virtual, headend, and branch gateways, routing traffic across MPLS, broadband, and cellular links. Features include graphical topology views, real-time WAN health monitoring, and tunnel status per site. Advanced capabilities like dynamic path steering, SaaS QoE scoring, and root cause analysis ensure performance visibility. WAN orchestration and virtual gateway management extend policy control to public cloud deployments, enabling secure, scalable multi-cloud networking.

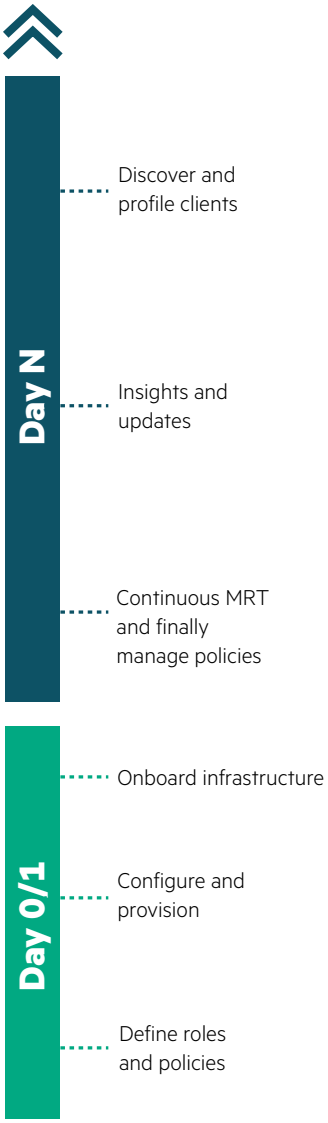


Figure 4. Network and security orchestration workflow

Furthermore, IT administrators can unify HPE Aruba Networking EdgeConnect SD-Branch and EdgeConnect SD-WAN into a single SD-Fabric, orchestrated by HPE Aruba Networking Central. By configuring EdgeConnect SD-WAN physical appliances as VPN concentrators (VPNCs) at hub locations, EdgeConnect SD-Branch gateways and EdgeConnect Microbranch access points can be seamlessly connected to EdgeConnect SD-WAN VPNCs. This architecture simplifies the management of diverse SD-WAN branch deployments and supports a wide range of business requirements.

To strengthen security, HPE Aruba Networking EdgeConnect SD-Branch integrates with HPE Aruba Networking SSE to deliver a unified SASE solution. It includes cloud-delivered security features like ZTNA, SWG, and CASB for secure access to private, internet, and SaaS apps. The solution also supports third-party security integrations for a best-of-breed architecture. As part of Central NetConductor, EdgeConnect SD-Branch adds role-based segmentation, IDS/IPS, and web filtering, enforces policies via EVPN/VXLAN standards, and streamlines multi-cloud connectivity with AWS, Azure, and Google Cloud™.

- **Network topology identification and automated network configuration**
  Network wizard simplifies the creation of underlays for campus and data center environments. Manual errors are lowered as network topology is automatically identified and configured with minimal user inputs. Built-in fabric wizards enable IT operators to automatically generate logical overlays without complex CLI programming, pushing inherent policies universally across wired, wireless, and WAN infrastructure for campus and data center environments.

Additional security capabilities

FIPS 140-2 validated
FIPS 140-2 accreditations provide confidence to U.S. federal agencies, state and local (SLED) government, defense, and other publicly funded organizations to take advantage of a powerful cloud-like management experience and improve IT agility, efficiency while also satisfying regulatory or compliance requirements. HPE Aruba Networking Central On-Premises is FIPS 140–2 validated. For more details, read the ordering guide.

Secure wireless segmentation:
MultiZone provides data separation for multitenancy, guest/visitor access, IoT devices, and other use cases. A single AP can connect to multiple gateways and tunnel traffic for isolation without requiring extra access points or managing another wireless network.

Intrusion detection: Rogue AP Intrusion Detection Service (RAPIDS) detects and resolves rogue AP issues, correlating wired and wireless data to enhance security and incident response, with optional risk-oriented traffic inspection.

Web content filtering: WebCC rates websites by reputation and risk, empowering IT to block malicious sites, preventing phishing, DDoS, and other attacks.

Simple, flexible consumption

Licenses for this platform are available on a per-device basis for APs, switches, and gateways in 1-, 3-, 5-, 7-, and 10-year increments, making it easy for customers to align requirements as per their financial requirements. For information on features, configurations, and newly supported devices, visit the HPE Aruba Networking Central Help Center.

Foundation subscriptions
Foundation subscriptions enable all primary enterprise features such as monitoring, reporting, and troubleshooting, onboarding, provisioning, orchestration, AI and analytics, content filtering, guest access, HPE Aruba Networking UXI integration, and 24x7 TAC (including software support for all hardware).

Advanced subscriptions
Advanced subscriptions include all foundational features while adding enhanced AIOps, security, and other premium features, such as end-to-end segmentation, expanded AI insights, UCC visibility and reporting, and more.

Add-on licenses for third-party device monitoring (OpsRamp Extension) and network access control (Central NAC pro) are also available. Please refer to ordering guide for more details.

Flexible consumption options to help maximize value
Additional purchasing and consumption flexibility is available to help customers maximize the use and value of this platform over their contracted terms in the following ways.

- **Delayed activation:** Purchase subscriptions now and activate them up to 90 days later to align with network deployments, expansions, or other upcoming IT initiatives.

Delayed activation is available for direct orders only. For more information contact your sales representative. You can find additional licensing and purchasing information in the ordering guide. These flexible consumption options are not available for on-premises deployments.

Customer first, customer last support

Upon purchase of licenses, customers receive comprehensive software support for the platform and managed devices in the following ways:

- 24x7 priority technical support for troubleshooting.
- Software updates and upgrades for the platform and managed devices. Hardware support for the managed devices is not included with the licenses and must be purchased separately.
- Option to choose HPE Aruba Networking Foundational Care next business day exchange support for hardware support or upgrade to 4-hour on-site repair and replacement. Additionally, premium support provides access to premium service engineers for faster issue resolution.
- Customers can rapidly deploy this platform along with other components of secure, AI-native network with HPE Aruba Networking Professional Services that provide audit, design, deployment, and migration services following HPE Aruba Networking best practices.

Getting started

Discover more about our best-in-class network management capabilities by exploring the Central demo and joining the Airheads community. As a member, you'll gain access to expert-led discussion forums, technical articles, and cutting-edge content—plus opportunities to connect, collaborate, and innovate with top networking professionals.

For more information, contact your HPE Aruba Networking partner or sales representative.

For more details on monthly releases, Refer to the release notes.

Learn more at

HPE.com/in/en/Aruba-Central.html

Visit **HPE.com**

Chat now (sales)

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Hewlett Packard Enterprise

HPE aruba networking

Data sheet



HPE Aruba Networking CX 6300 Switch Series

HPE



Key benefits

— Stackable Layer 3 switches with BGP, EVPN, VXLAN, VRF, and OSPF with robust security and QoS

— Non-blocking performance with up to 1760 Gbps switching capacity, up to 1310 Mpps of forwarding throughput and up to 400 Gbps stacking bandwidth.

— Compact 1U switches with full density HPE Smart Rate (1G/2.5G/5G/10GbE) multi-gigabit, 1G fiber, up to 90W PoE (Class 8), 10G LRM SFP+, and built-in high speed 1/10/25/40/50/100GbE uplinks available on select models[1]

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[1] and 40/100GbE uplinks and supports high density IEEE 802.3bt high power PoE. across fixed and modular configuration switch models. 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.

[1]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.

Key benefits (continued)

- High availability and scale with choice between 2 to 10-member Virtual Switching Framework (VSF) stacking and 2-member Virtual Switching Extension (VSX) cluster. VSX Live Upgrades and VSF in-service software upgrades deliver ISSU orchestration with no downtime or restart when upgrading within the same major release.
- Management via single point of visibility and control with HPE Aruba Networking Central across wired, wireless, and WAN
- Secure and simple access for users and IoT with HPE Aruba Networking Dynamic Segmentation
- Deep visibility and application recognition with CX Edge Insights, including granular data point collection with search, sort and reporting
- Intelligent monitoring, visibility, and remediation with HPE Aruba Networking CX Network Analytics Engine (NAE)
- Automated configuration and verification with HPE Aruba Networking Switch Multi-Edit Software
- Large TCAM size ideal for mobility and IoT deployments in large campuses with several thousand clients
- Selectable queue configurations allow for increased performance by defining number of queues and associated memory buffering to best meet the needs of network applications

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.

Data center bundle
For data center networks, the HPE Aruba Networking 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) for server racks. Bundle 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 SFP uplinks

Product Features

HPE Aruba Networking CX operating system
The HPE Aruba Networking CX 6300 Switch Series is based on the HPE Aruba Networking CX Switch Operating System, a modern, cloud-native, microservices-based network architecture that automates and simplifies critical tasks and complex workflows for the network operator. It delivers simplified IT operations with faster meantime to resolution, high availability, and end-to-end security.

For more information, read the HPE Aruba Networking CX Switch Operating System Data Sheet

In addition to the native features available in HPE Aruba Networking CX Switch Operating System, 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 — a single point of visibility and control HPE Aruba Networking CX Switches are supported on HPE Aruba Networking Central, a single, zero trust, AI-powered, and cloud-native point of visibility and control for network operations. Using flexible, cloud-based, or on-premises models, HPE Aruba Networking Central delivers unified wired, WLAN, and SD-WAN management.

To learn more about Central subscriptions available for HPE Aruba Networking CX Switches, read the HPE Aruba Networking Central SaaS Subscription Ordering Guide.

For more information on the capabilities of HPE Aruba Networking Central, visit its webpage at hpe.com/us/en/aruba-central.html

7th Generation ASICs — Purpose Built for 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.

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.

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

VSX Clusters – High Availability
HPE Aruba Networking Virtual Switching Extension (VSX) maintain synchronous state across dual control planes allows a unique high availability solution. VSX is delivered through redundancy gained by deploying two switches with an inter-switch link, with each switch maintaining its independent control.

— Architecture flexibility with a choice between VSX active-active network design or VSF stacking for scale and simplicity

— Continuous configuration synchronization via CX-OS

— Operational simplicity and usability for easy configuration

— High availability by design with support for VSX Live Upgrade

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 1GbE, 10GbE, 25GbE, 40GbE and 100GbE[1] 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) and 1GbE fiber 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[1] port connectivity

— HPE Smart Rate Multi-Gigabit (IEEE 802.3bz) Ethernet supports high speed wireless access points

— Flexibility to turn 5G smart rate into 10G ports on S4P41A and S4P42A models

— 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.

— 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 gigabit Ethernet, and Smart Rate[2] 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

[1] 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.

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

- 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

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

— Unidirectional Link Detection (UDLD) to monitor link connectivity and shut down ports at both ends if unidirectional traffic is detected, preventing loops in STP-based networks

— IEEE 802.3ad LACP supports up to 256 LAGs, each with up to 16 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)

— 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 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

— 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

— IPv6 VXLAN/EVPN Overlay support, allows IPv6 traffic over the VXLAN overlay

— VXLAN ARP/ND suppression allows minimization of ARP and ND traffic flooding within individual VXLAN segments, thus optimizing the VXLAN network

— QinQ support to improve the VLAN utilization by adding another 802.1Q tag to tagged packets

— Audio Video Bridging only supported on 89A, 90A

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

— 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 CX Switch Operating System switches. Other security features include:

— HPE Aruba Networking CX Switch Operating System 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:

— 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 on-site 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: HPE Aruba Networking Services

Warranty, services and support

Limited Lifetime Warranty, see HPE Aruba Networking warranty and support summary document for warranty and support information included with your product purchase

For more detailed information on HPE Aruba Networking HPE Aruba Networking CX Switch Operating System software release and features, please visit the HPE Aruba Networking CX Switch Operating System 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 networkingsupport.hpe.com/downloads

For support and services information, visit HPE Aruba Networking Services



Technical specifications

	HPE Aruba Networking 6300M 16p SmtRt 5G 32p 1G Class8 PoE 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P41A)	HPE Aruba Networking 6300M 32p SmtRt 5G CL8 8p SFP+ 10G LRM 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P42A)	HPE Aruba Networking 6300M 48p SFP 1G 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P43A)	HPE Aruba Networking 6300M 24p SFP 1G 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P44A)
	"32x 10/100/1000M and 16x SmartRate 1/2.5/5G BaseT Ports (Configuration can be changed to 8x SmartRate 10G BaseT Ports) with Class 8 PoE supporting up to 90W per port 2x 10G/25G/50G SFP56 ports 2x 1G/10G/25G SFP28 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 1x Bluetooth dongle to be used with CX Mobile App"	"32x SmartRate 1/2.5/5G BaseT Ports (Configuration can be changed to 16x SmartRate 5G and 8x SmartRate 10G BaseT Ports) with Class 8 PoE supporting up to 90W per port and 8x 1/10G SFP+ (LRM) 2x 10G/25G/50G SFP56 ports 2x 1G/10G/25G SFP28 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 1x Bluetooth adapter to be used with HPE Aruba Networking CX Switch Operating System Mobile App"	"48x ports 1G SFP 2x 10G/25G/50G SFP56 ports 2x 1G/10G/25G SFP28 ports (MACsec) 1x USB-C Console Port (higher priority than RJ45 console port) 1x RJ45 console port 1x OOBM 1x USB Type A Host port 1x Bluetooth adapter to be used with HPE Aruba Networking CX Switch Operating System Mobile App"	"24x ports 1G SFP 2x 10G/25G/50G SFP56 ports 2x 1G/10G/25G SFP28 ports (MACsec) 1x USB-C Console Port (higher priority than RJ45 console port) 1x RJ45 console port 1x OOBM 1x USB Type A Host port 1x Bluetooth adapter to be used with HPE Aruba Networking CX Switch Operating System Mobile App"
Power supplies	"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 JL085A JL757A PSU"	"2 field-replaceable, hot-swappable power supply slots 1 minimum power supply required (ordered separately) Supported PSUs JL085A JL757A PSU"
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."	"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."

Technical specifications (continued)

	HPE Aruba Networking 6300M 16p SmtRt 5G 32p 1G Class8 PoE 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P41A)	HPE Aruba Networking 6300M 32p SmtRt 5G CL8 8p SFP+ 10G LRM 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P42A)	HPE Aruba Networking 6300M 48p SFP 1G 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P43A)	HPE Aruba Networking 6300M 24p SFP 1G 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P44A)
Physical characteristics				
Dimensions	"4.4 cm (h) x 44.2 cm (w) x 38.5 cm (d) (1.73" x 17.4" x 15.2")"	"4.4 cm (h) x 44.2 cm (w) x 38.5 cm (d) (1.73" x 17.4" x 15.2")"	"4.4 cm (h) x 44.2 cm (w) x 38.5 cm (d) (1.73" x 17.4" x 15.2")"	"4.4 cm (h) x 44.2 cm (w) x 38.5 cm (d) (1.73" x 17.4" x 15.2")"
Configuration Weight	12.61 lb (5.72 kg)	12.52 lb (5.68 kg)	11.90 lb (5.40 kg)	11.40 lb (5.17 kg)
Additional Specifications				
CPU	1.8 GHz Quad Core Arm® Cortex™ A72	1.8 GHz Quad Core Cortex™ A72	1.8 GHz Quad Core Cortex™ A72	1.8 GHz Quad Core Cortex™ A72
Memory and Flash	"8 GB DDR4 32 GB eMMC"	"8 GB DDR4 32 GB eMMC"	"8 GB DDR4 32 GB eMMC"	"8 GB DDR4 32 GB eMMC"
Packet Buffer	16 MB	16 MB	16 MB	16 MB
Performance				
Model Switching Capacity	524 Gbps	780 Gbps	396 Gbps	348 Gbps
Model Throughput Capacity	390 Mpps	580 Mpps	295 Mpps	259 Mpps
Average Latency (LIFO-64-bytes packets)	"<5 µs 1G: 3.6 µs"	"<5 µs 10G LRM ports: 2.3 µs 10G dual mode ports: 5.5 µs 25G: 3.5 µs"	"<5 µs 1G: 3.4 µs 50G:2.1 µs"	<5 µs
Stack Size	10 members	10 members	10 members	10 members
Max Stacking Distance	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
Stacking Bandwidth	200 Gbps	200 Gbps	200 Gbps	200 Gbps
Switched Virtual Interfaces (dual stack)	1,024	1,024	1,024	1,024
IPv4 Host Table (ARP)	49,152	49,152	49,152	49,152

Technical specifications (continued)

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IPv6 Host Table (ND)	49,152	49,152	49,152	49,152
IPv4 Unicast Routes	61,000	61,000	61,000	61,000
IPv6 Unicast Routes	61,000	61,000	61,000	61,000
IPv4 Multicast Routes	8,192	8,192	8,192	8,192
IPv6 Multicast Routes	8,192	8,192	8,192	8,192
MAC Table Capacity	32,768	32,768	32,768	32,768
IGMP Groups	4,096	4,096	4,096	4,096
MLD Groups	4,096	4,096	4,096	4,096
IPv4/IPv6/MAC ACL Entries (ingress)	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480
IPv4/IPv6/MAC ACL Entries (egress)	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192
Environment				
Operating Temperature	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[1] 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[1] 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[1] 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[1] of time.

Technical specifications (continued)

	HPE Aruba Networking 6300M 16p SmtRt 5G 32p 1G Class8 PoE 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P41A)	HPE Aruba Networking 6300M 32p SmtRt 5G CL8 8p SFP+ 10G LRM 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P42A)	HPE Aruba Networking 6300M 48p SFP 1G 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P43A)	HPE Aruba Networking 6300M 24p SFP 1G 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P44A)
Operating Relative Humidity	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
Non-Operating	-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
Non-Operating Storage Relative Humidity	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
Max Operating Altitude	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
Max Non-Operating Altitude	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
Acoustic	With JL670A PSU: Idle: 352 BTU/hr 100% Traffic Rate: 457 BTU/hr With JL758A PSU: Idle: 379 BTU/hr 100% Traffic Rate: 461 BTU/hr	With JL670A PSU: Idle: 362 BTU/hr 100% Traffic Rate: 543 BTU/hr With JL758A PSU: Idle: 403 BTU/hr 100% Traffic Rate: 533 BTU/hr	With JL670A PSU: Idle: 229 BTU/hr 100% Traffic Rate: 433 BTU/hr With JL758A PSU: Idle: 208 BTU/hr 100% Traffic Rate: 420 BTU/hr	With JL670A PSU: Idle: 212 BTU/hr 100% Traffic Rate: 345 BTU/hr With JL758A PSU: Idle: 195 BTU/hr 100% Traffic Rate: 331 BTU/hr
Primary Airflow	Front and side to back	Front and side to back	Front and side to back	Front and side to back
Electrical Characteristics				
Frequency	TBD	TBD	TBD	TBD
AC Voltage	TBD	TBD	TBD	TBD
Current (for voltages listed above)	TBD	TBD	TBD	TBD
Power Consumption (230VAC)	TBD	TBD	TBD	TBD

Technical specifications (continued)

	HPE Aruba Networking 6300M 16p SmtRt 5G 32p 1G Class8 PoE 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P41A)	HPE Aruba Networking 6300M 32p SmtRt 5G CL8 8p SFP+ 10G LRM 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P42A)	HPE Aruba Networking 6300M 48p SFP 1G 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P43A)	HPE Aruba Networking 6300M 24p SFP 1G 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P44A)
Safety				
Include US, Canada, Europe, Worldwide	"Europe: EN 62368-1:2014 +A11:2017 2nd Ed. EN 62368-1:2020 +A11:2020 3rd Ed. US/Canada: UL 62368-1 3rd Ed. CAN/CSA-C22.2 No. 62368-1:19, 3rd Ed. Worldwide: 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. US/Canada: UL 62368-1 3rd Ed. CAN/CSA-C22.2 No. 62368-1:19, 3rd Ed. Worldwide: 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. US/Canada: UL 62368-1 3rd Ed. CAN/CSA-C22.2 No. 62368-1:19, 3rd Ed. Worldwide: 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. US/Canada: UL 62368-1 3rd Ed. CAN/CSA-C22.2 No. 62368-1:19, 3rd Ed. Worldwide: IEC 62368-1:2014 2nd Ed. w/all known National Deviations IEC 62368-1:2018 3rd Ed. w/all known National Deviations "
Emissions				
Include US, Canada, Europe, Worldwide	"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 AS/NZS CISPR 32: 2015 CNS 15936:2016 KS C 9832:2019 KS C 9835:2019 "	"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 AS/NZS CISPR 32: 2015 CNS 15936:2016 KS C 9832:2019 KS C 9835:2019 "	"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 AS/NZS CISPR 32: 2015 CNS 15936:2016 KS C 9832:2019 KS C 9835:2019 "	"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 AS/NZS CISPR 32: 2015 CNS 15936:2016 KS C 9832:2019 KS C 9835:2019 "
Lasers				
Include US, Canada, Europe, Worldwide	"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)"	"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 (continued)

	HPE Aruba Networking 6300M 16p SmtRt 5G 32p 1G Class8 PoE 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P41A)	HPE Aruba Networking 6300M 32p SmtRt 5G CL8 8p SFP+ 10G LRM 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P42A)	HPE Aruba Networking 6300M 48p SFP 1G 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P43A)	HPE Aruba Networking 6300M 24p SFP 1G 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P44A)
Immunity				
Generic	CISPR 35	CISPR 35	CISPR 35	CISPR 35
EN	EN 55035:2017	EN 55035:2017	EN 55035:2017	EN 55035:2017
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Power Frequency Magnetic Field	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Voltage Dips and Interruptions	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	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
Flicker	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
South Korea	KS C 9835:2019	KS C 9835:2019	KS C 9835:2019	KS C 9835:2019
Mounting and Enclosure				
	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 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 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)
Description	48x ports SmartRate 100M[2]/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	24x ports SmartRate 100M[2]/1G/2.5G/5G/10G BaseT Class 6 PoE ports supporting up to 60W per port (MACsec) 2x 10G/25G/50G[1] 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[2]/1G/2.5G/5G BaseT Class 8 PoE ports supporting up to 90W per port (MACsec) 2x 10G/25G/50G[1] 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
Power supplies	2 field-replaceable, hot-swappable power supply slots 1 minimum power supply required (ordered separately) Supported PSUs JL086A JL087A JL670A JL758A Max PoE Power: 2640W	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
Fans	Switch has three fan tray slots and comes with three JL714A fan trays installed — Min 3 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.
Physical characteristics			
Dimensions	4.4 cm (h) x 44.2 cm (w) x 47.2 cm (d) (1.73" x 17.4" x 18.6")	4.4 cm (h) x 44.2 cm (w) x 38.5 cm (d) (1.73" x 17.4" x 15.2")	4.4 cm (h) x 44.2 cm (w) x 38.5 cm (d) (1.73" x 17.4" x 15.2")
Configuration weight	7.75 kg (17.09 lb)	5.26 kg (11.60 lb)	5.48 kg (12.08 lb)

[1] 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.

[2] 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 (continued)

	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)
Additional specifications			
CPU	Quad Core Arm Cortex A72 @ 1.8 GHz	Quad Core Arm Cortex A72 @ 1.8 GHz	Quad Core Arm Cortex A72 @ 1.8 GHz
Memory and flash	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC
Packet buffer	32 MB	16 MB	16 MB
Performance			
Switching capacity	1760 Gbps	780 Gbps	780 Gbps
Throughput capacity	1310 Mpps	580 Mpps	580 Mpps
Average latency (LIFO-64-bytes packets)	1 Gbps: 4.24 µ Sec 10 Gbps: 1.50 µ Sec 25 Gbps: 2.91 µ Sec 50 Gbps[1]: 3.49 µ Sec	1 Gbps: 4.24 µ Sec 10 Gbps: 1.50 µ Sec 25 Gbps: 2.91 µ Sec 50 Gbps[1]: 3.49 µ Sec	1 Gbps: 4.24 µ Sec 10 Gbps: 1.50 µ Sec 25 Gbps: 2.91 µ Sec 50 Gbps[1]: 3.49 µ Sec
Average latency (LIFO-64-bytes packets)	10 members	10 members	10 members
Max stacking distance	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers
Stacking bandwidth	400 Gbps	200 Gbps	200 Gbps
Switched virtual interfaces (dual stack)	1,024	1,024	1,024
IPv4 host table (ARP)	49,152	49,152	49,152
IPv6 host table (ND)	49,152	49,152	49,152
IPv4 unicast routes	61,000	61,000	61,000
IPv6 unicast routes	61,000	61,000	61,000
IPv4 multicast routes	8,192	8,192	8,192
IPv6 multicast routes	8,192	8,192	8,192
MAC table capacity	32,768	32,768	32,768
IGMP groups	4,096	4,096	4,096
MLD groups	4,096	4,096	4,096
IPv4/IPv6/MAC ACL entries (ingress)	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480
IPv4/IPv6/MAC ACL entries (egress)	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192
VRF	256	256	256

[1] 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 (continued)

	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)
Environment			
Operating temperature	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1°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[1] of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1°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[1] of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1°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[1] of time.
Operating relative humidity	5% to 95% @ 104°F (40°C) non condensing	5% to 95% @ 104°F (40°C) noncondensing	5% to 95% @ 104°F (40°C) non condensing
Non operating	-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
Non operating storage relative humidity	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
Max operating altitude	10,000 ft (3.04 km) Max	10,000 ft (3.04 km) Max	10,000 ft (3.04 km) Max
Max Non operating altitude	15,000 ft (4.6 km) Max	15,000 ft (4.6 km) Max	15,000 ft (4.6 km) Max
Acoustic	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
Primary airflow	Front and side to back	Front and side to back	Front and side to back
Electrical characteristics			
Frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
Input voltage	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
Current (for voltages listed above)	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
Power consumption (230VAC)	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

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

Technical specifications (continued)

	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)
Safety			
Include US, Canada, Europe, Worldwide	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
Emissions			
Include US, Canada, Europe, Worldwide	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
Lasers			
Include US, Canada, Europe, Worldwide	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 (continued)

	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)
Immunity			
Generic	CISPR 35	CISPR 35	CISPR 35
EN	EN 55035:2017	EN 55035:2017	EN 55035:2017
ESD	IEC 61000 4 2	IEC 61000 4 2	IEC 61000 4 2
Radiated	IEC 61000 4 3	IEC 61000 4 3	IEC 61000 4 3
EFT/Burst	IEC 61000 4 4	IEC 61000 4 4	IEC 61000 4 4
Surge	IEC 61000 4 5	IEC 61000 4 5	IEC 61000 4 5
Conducted	IEC 61000 4 6	IEC 61000 4 6	IEC 61000 4 6
Power frequency magnetic field	IEC 61000 4 8	IEC 61000 4 8	IEC 61000 4 8
Voltage dips and interruptions	IEC 61000 4 11	IEC 61000 4 11	IEC 61000 4 11
Harmonics	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
Flicker	IEC/EN 61000 3 3:2013+A2:2021	IEC 61000 3 3, EN 61000 3 3	IEC 61000 3 3, EN 61000 3 3
Mounting and enclosure			
	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 (continued)

	HPE Aruba Networking CX 6300M 48p SR10 PTP/AVB Class8 PoE 4p 100G MACsec Switch (S0E91A)	HPE Aruba Networking 6300M 24p SFP+ LRM support and 2p 50G and 2p 25G MACsec Switch (R8S92A)
Description	48x ports SmartRate 100M[2]/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[1] 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[1] 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
Power supplies	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
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.
Physical characteristics		
Dimensions	(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")
Configuration weight	5.47 kg (12.06 lb)	4.85 kg (10.70 lb)

[1] 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.

[2] 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 (continued)

	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)
Additional specifications		
CPU	Quad Core Arm Cortex A72 @ 1.8 GHz	Quad Core Arm Cortex A72 @ 1.8 GHz
Memory and flash	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC
Packet buffer	16 MB	16 MB
Performance		
Switching capacity	720 Gbps	780 Gbps
Throughput capacity	535 Mpps	580 Mpps
Average latency (LIFO-64-bytes packets)	1 Gbps: 4.24 µ Sec 10 Gbps: 1.50 µ Sec 25 Gbps: 2.91 µ Sec 50 Gbps[1]: 3.49 µ Sec	1 Gbps: 4.24 µ Sec 10 Gbps: 1.50 µ Sec 25 Gbps: 2.91 µ Sec 50 Gbps[1]: 3.49 µ Sec
Stack size	10 members	10 members
Max stacking distance	Up to 10 kms with long range transceivers	Up to 10 kms with long range transceivers
Stacking bandwidth	200 Gbps	200 Gbps
Switched virtual interfaces (dual stack)	1,024	1,024
IPv4 host table (ARP)	49,152	49,152
IPv6 host table (ND)	49,152	49,152
IPv4 unicast routes	61,000	61,000
IPv6 unicast routes	61,000	61,000
IPv4 multicast routes	8,192	8,192
IPv6 multicast routes	8,192	8,192
MAC table capacity	32,768	32,768
IGMP groups	4,096	4,096
MLD groups	4,096	4,096
IPv4/IPv6/MAC ACL entries (ingress)	20,480/5,120/20,480	20,480/5,120/20,480
IPv4/IPv6/MAC ACL entries (egress)	8,192/2,048/8,192	8,192/2,048/8,192
VRF	256	256

[1]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 (continued)

	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)
Environment		
Operating temperature	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1°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[2] of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1°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[2] of time. 55°C 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), 5,000 ft
Operating relative humidity	5% to 95% @ 104°F (40°C) non-condensing	5% to 95% @ 104°F (40°C) non-condensing
Non operating	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
Non operating storage relative humidity	5% to 95% @ 149°F (65°C) non condensing	5% to 95% @ 149°F (65°C) non condensing
Max operating altitude	10,000 ft (3.04 km) Max	10,000 ft (3.04 km) Max
Max Non operating altitude	15,000 ft (4.6 km) Max	15,000 ft (4.6 km) Max
Acoustic	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
Primary airflow	Front and side to back	Front and side to back
Electrical characteristics		
Frequency	50 Hz/60 Hz	50 Hz/60 Hz
AC voltage	JL670A PSU: 110V 120V/208V 240V JL086A PSU: 100V 240V JL087A PSU: 110V 240V	JL085A PSU: 100V 240V
Current (for voltages listed above)	JL670A PSU: 11A/8A JL086A PSU: 8A/3.5A JL087A PSU: 12A/5A	JL085A PSU: 3A/1.2A
Power consumption (230VAC)	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

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

Technical specifications (continued)

	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)
Safety		
Include US, Canada, Europe, Worldwide	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
Emissions		
Include US, Canada, Europe, Worldwide	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
Lasers		
Include US, Canada, Europe, Worldwide	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 (continued)

	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)
Immunity		
Generic	CISPR 35	CISPR 35
EN	EN 55035:2017	EN 55035:2017
ESD	IEC 61000 4 2	IEC 61000 4 2
Radiated	IEC 61000 4 3	IEC 61000 4 3
EFT/Burst	IEC 61000 4 4	IEC 61000 4 4
Surge	IEC 61000 4 5	IEC 61000 4 5
Conducted	IEC 61000 4 6	IEC 61000 4 6
Power frequency magnetic field	IEC 61000 4 8	IEC 61000 4 8
Voltage dips and interruptions	IEC 61000 4 11	IEC 61000 4 11
Harmonics	IEC 61000 3 2, EN 61000 3 2	IEC 61000 3 2, EN 61000 3 2
Flicker	IEC 61000 3 3, EN 61000 3 3	IEC 61000 3 3, EN 61000 3 3
Mounting and enclosure		
	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 (continued)

	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)
Description	24x ports 10/100/1000 BaseT PoE+ ports supporting up to 30W per port 4x 1G/10G/25G/50G[1] 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[1] 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[1] 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[1] SFP ports 1x USB-C Console Port 1x OOBM 1x USB Type A Host port
Power supplies	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
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 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.
Physical characteristics				
Dimensions	4.4 cm (h) x 44.2 cm (w) x 38.5 (d) cm (1.73" x 17.4" x 15.2")	4.4 cm (h) x 44.2 cm (w) x 38.5 cm (d) (1.73" x 17.4" x 15.2")	4.4 cm x (h) 44.2 cm (w) x 38.5 cm (d) (1.73" x 17.4" x 15.2")	4.4 cm x (h) 44.2 cm (w) x 38.5 cm (d) (1.73" x 17.4" x 15.2")
Configuration weight	5.55 kg (12.23 lb)	5.51 kg (12.14 lb)	5.43 kg (11.97 lb)	1PSU: 5.7 kg (12.5 lb) 2PSU: 6.27 kg (13.8 lb)

[1]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 (continued)

	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)
Additional specifications				
CPU	Quad Core Arm Cortex A72 @ 1.8 GHz	Quad Core Arm Cortex A72 @ 1.8 GHz	Quad Core Arm Cortex A72 @ 1.8 GHz	Quad Core Arm Cortex A72 @ 1.8 GHz
Memory and flash	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC	8 GBytes DDR4 32 GBytes eMMC
Packet buffer	8 MB	8 MB	8 MB	8 MB
Performance				
Switching capacity	448 Gbps	496 Gbps	448 Gbps	496 Gbps
Throughput capacity	334 Mpps	369 Mpps	334 Mpps	369 Mpps
Average latency (LIFO-64-bytes packets)	1 Gbps: 2.28 µ Sec 10 Gbps: 1.46 µ Sec 25 Gbps: 1.90 µ Sec 50 Gbps[1]: 3.49 µ Sec	1 Gbps: 2.28 µ Sec 10 Gbps: 1.46 µ Sec 25 Gbps: 1.90 µ Sec 50 Gbps[1]: 3.49 µ Sec	1 Gbps: 2.28 µ Sec 10 Gbps: 1.46 µ Sec 25 Gbps: 1.90 µ Sec 50 Gbps[1]: 3.49 µ Sec	1 Gbps: 2.28 µ Sec 10 Gbps: 1.46 µ Sec 25 Gbps: 1.90 µ Sec 50 Gbps[1]: 3.49 µ Sec
Stack size	10 members	10 members	10 members	10 members
Max. stacking distance	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
Stacking bandwidth	200 Gbps	200 Gbps	200 Gbps	200 Gbps
Switched virtual interfaces (dual stack)	1,024	1,024	1,024	1,024
IPv4 host table (ARP)	49,152	49,152	49,152	49,152
IPv6 host table (ND)	49,152	49,152	49,152	49,152
IPv4 unicast routes	61,000	61,000	61,000	61,000
IPv6 unicast routes	61,000	61,000	61,000	61,000
IPv4 multicast routes	8,192	8,192	8,192	8,192
IPv6 multicast routes	8,192	8,192	8,192	8,192
MAC table capacity	32,768	32,768	32,768	32,768
IGMP groups	4,096	4,096	4,096	4,096
MLD groups	4,096	4,096	4,096	4,096
IPv4/IPv6/MAC ACL entries (ingress)	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480
IPv4/IPv6/MAC ACL entries (egress)	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192
VRF	256	256	256	256

[1]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 (continued)

	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)
Environment				
Operating temperature	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1°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[1] of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1°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[1] of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1°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[1] of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1°C for every 1,000 ft from 5000 ft to 1,0000 ft.
Operating relative humidity	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
Non operating	-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
Non operating storage relative humidity	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
Max operating altitude	10,000 ft (3.04 km) Max	10,000 ft (3.04 km) Max	10,000 ft (3.04 km) Max	10,000 ft (3.04 km) Max
Max non operating altitude	15,000 ft (4.6 km) Max	15,000 ft (4.6 km) Max	15,000 ft (4.6 km) Max	15,000 ft (4.6 km) Max
Acoustic	Sound Power, L_{WAd} = 4.7 Bel Sound Pressure, L_{pAm} (Bystander) = 29.4 dB	Sound Power, L_{WAd} = 4.6 Bel Sound Pressure, L_{pAm} (Bystander) = 28.7 dB	Sound Power, L_{WAd} = 4.6 Bel Sound Pressure, L_{pAm} (Bystander) = 28.6 dB	Sound Power, L_{WAd} = 5.0 Bel Sound Pressure, L_{pAm} (Bystander) = 32.5 dB with 1 x JL760A PSU
Primary airflow	Front and side to back	Front and side to back	Front and side to back	Back to Front and Side
Electrical characteristics				
Frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
AC voltage	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
Current (for voltages listed above)	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
80 PLUS® certification	-	-	-	TBA for JL760A PS.
Power consumption (230VAC)	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

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

Technical specifications (continued)

	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)
Safety				
	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013 US: UL 60950-1 2nd Ed. Canada: CAN/ CSA-C22.2 No. 60950-1-07 Worldwide: IEC 60950-1:2005 w/ all known National Deviations	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013 US: UL 60950-1 2nd Ed. Canada: CAN/ CSA-C22.2 No. 60950-1-07 Worldwide: IEC 60950-1:2005 w/ all known National Deviations	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013 US: UL 60950-1 2nd Ed. Canada: CAN/ CSA-C22.2 No. 60950-1-07 Worldwide: IEC 60950-1:2005 w/ all known National Deviations	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. Canada: CAN/ CSA-C22.2 No. 60950-1-07 Worldwide: IEC 60950-1:2005 w/ all known National Deviations IEC 62368-1:2014 2nd Ed. Taiwan: CNS-14336-1
Emissions				
	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 Canada: ICES-003 Class A Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	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 Canada: ICES-003 Class A Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	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 Canada: ICES-003 Class A Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	Europe: EN 55032:2015 +AC:2016, Class A EN 55035:2017 EN 61000-3-2:2014 EN 61000-3-3:2013 US: FCC 47 CFR part 15B, Class A Canada: ICES-003 Class A Worldwide: VCCI Class A CISPR 32 Ed 2.0: 2015 + COR1:2016, Class A CISPR 35:2016
Lasers				
	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)
Immunity				
Generic	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35	CISPR 35
EN	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017	EN 55035:2017
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2

Technical specifications (continued)

	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)
Immunity				
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	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
Mounting and enclosure				
	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 (continued)

	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)
Description	48x ports 10/100/1000BaseT PoE+ Ports supporting up to 30W per port 4x 1G/10G/25G/50G[1] 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[1] 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[1] 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[1] SFP ports 1x USB-C Console Port 1x OOBM port 1x USB Type A Host port
Power supplies	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)
Fans	Fixed fans	Fixed fans	Fixed fans	Fixed fans
Physical characteristics				
Dimensions	(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")
Configuration weight	5.10 kg (11.24 lb)	4.95 kg (10.91 lb)	4.46 kg (9.83 lb)	4.36 kg (9.61 lb)
Additional specifications				
CPU	Quad Core Arm Cortex A72 @ 1.8 GHz	Quad Core Arm Cortex A72 @ 1.8 GHz	Quad Core Arm Cortex A72 @ 1.8 GHz	Quad Core Arm Cortex A72 @ 1.8 GHz
Memory and flash	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC
Packet buffer	8 MB	8 MB	8 MB	8 MB

[1] 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 (continued)

	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)
Performance				
Switching capacity	496 Gbps	448 Gbps	496 Gbps	448 Gbps
Throughput capacity	369 Mpps	334 Mpps	369 Mpps	334 Mpps
Average latency (LIFO 64 bytes packets)	1 Gbps: 2.28 µ Sec 10 Gbps: 1.46 µ Sec 25 Gbps: 1.90 µ Sec 50 Gbps[1]: 3.49 µ Sec	1 Gbps: 2.28 µ Sec 10 Gbps: 1.46 µ Sec 25 Gbps: 1.90 µ Sec 50 Gbps[1]: 3.49 µ Sec	1 Gbps: 2.28 µ Sec 10 Gbps: 1.46 µ Sec 25 Gbps: 1.90 µ Sec 50 Gbps[1]: 3.49 µ Sec	1 Gbps: 2.28 µ Sec 10 Gbps: 1.46 µ Sec 25 Gbps: 1.90 µ Sec 50 Gbps[1]: 3.49 µ Sec
Stack size	10 members	10 members	10 members	10 members
Max. stacking distance	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
Stacking bandwidth	200 Gbps	200 Gbps	200 Gbps	200 Gbps
Switched Virtual Interfaces (dual stack)	1,024	1,024	1,024	1,024
IPv4 host table (ARP)	49,152	49,152	49,152	49,152
IPv6 host table (ND)	49,152	49,152	49,152	49,152
IPv4 unicast routes	61,000	61,000	61,000	61,000
IPv6 unicast routes	61,000	61,000	61,000	61,000
IPv4 multicast routes	8,192	8,192	8,192	8,192
IPv6 multicast routes	8,192	8,192	8,192	8,192
MAC table capacity	32,768	32,768	32,768	32,768
IGMP groups	4,096	4,096	4,096	4,096
MLD groups	4,096	4,096	4,096	4,096
IPv4/IPv6/MAC ACL entries (ingress)	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480
IPv4/IPv6/MAC ACL entries (egress)	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192
VRF	256	256	256	256

[1]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 (continued)

	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)
Environment				
Operating temperature	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1°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[1] of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1°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[1] of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1°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[1] of time.	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1°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[1] of time.
Operating relative humidity	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
Non-operating	-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
Non-operating storage relative humidity	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
Max operating altitude	10,000 ft (3.04 km) Max	10,000 ft (3.04 km) Max	10,000 ft (3.04 km) Max	10,000 ft (3.04 km) Max
Max non-operating altitude	15,000 ft (4.6 km) Max	15,000 ft (4.6 km) Max	15,000 ft (4.6 km) Max	15,000 ft (4.6 km) Max
Acoustic	Sound Power, L_{WAd} = 5.2 Bel Sound Pressure, L_{pAm} (Bystander) = 34.9 dB	Sound Power, L_{WAd} = 5.0 Bel Sound Pressure, L_{pAm} (Bystander) = 32.3 dB	Sound Power, L_{WAd} = 4.9 Bel Sound Pressure, L_{pAm} (Bystander) = 31.5 dB	Sound Power, L_{WAd} = 4.9 Bel Sound Pressure, L_{pAm} (Bystander) = 31.6 dB
Primary airflow	Front and side to back	Front and side to back	Front and side to back	Front and side to back
Electrical characteristics				
Frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
AC voltage	Fixed PSU: 100V-120V/200V-240V	Fixed PSU: 100V-120V/200V-240V	Fixed PSU: 100V-120V/200V-240V	Fixed PSU: 100V-120V/200V-240V
Current (for voltages listed above)	Fixed PSU: 11A/6A	Fixed PSU: 11A/6A	Fixed PSU: 2.5A/1.4A	Fixed PSU: 2.5A/1.4A
80 PLUS® certification	-	-	-	-
Power consumption (230VAC)	Idle: 63W 100% Traffic Rate: 86W	Idle: 52W 100% Traffic Rate: 67W	Idle: 52W 100% Traffic Rate: 74W	Idle: 49W 100% Traffic Rate: 63W
Safety				
	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013 US: UL 60950-1 2nd Ed. Canada: CAN/ CSA-C22.2 No. 60950-1-07 Worldwide: IEC 60950-1:2005 w/ all known National Deviations	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013 US: UL 60950-1 2nd Ed. Canada: CAN/ CSA-C22.2 No. 60950-1-07 Worldwide: IEC 60950-1:2005 w/ all known National Deviations	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013 US: UL 60950-1 2nd Ed. Canada: CAN/ CSA-C22.2 No. 60950-1-07 Worldwide: IEC 60950-1:2005 w/ all known National Deviations	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013 US: UL 60950-1 2nd Ed. Canada: CAN/ CSA-C22.2 No. 60950-1-07 Worldwide: IEC 60950-1:2005 w/ all known National Deviations

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

Technical specifications (continued)

	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)
Emissions				
	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 Canada: ICES-003 Class A Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	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 Canada: ICES-003 Class A Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	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 Canada: ICES-003 Class A Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	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 Canada: ICES-003 Class A Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010
Lasers				
	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)
Immunity				
Generic	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35
EN	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	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
Flicker	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
Mounting and enclosure				
	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 (continued)

	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)
Description	24x 1G/10G SFP+ ports 4x 1G/10G/25G1/50G SFP ports 1x USB-C Console Port 1x OOBM port 1x USB Type A Host port	48x ports SmartRate 100M[2]/1G/2.5G/5G BaseT Class 6 PoE ports supporting up to 60W per port 4x 1G/10G/25G[1]/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[2]/1G/2.5G/5G BaseT Class 6 PoE ports supporting up to 60W per port 4x 1G/10G/25G[1]/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[1]/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
Power supplies	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
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.	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.
Physical characteristics				
Dimensions	(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")
Configuration weight	5.8 Kg (12.78 lb)	6.71 kg (14.8 lb)	6.06 (13.36 lb)	5.72 kg (12.61 lb)

[1]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.

[2]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 (continued)

	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)
Additional specifications				
CPU	Quad Core Arm Cortex A72 @ 1.8 GHz	Quad Core Arm Cortex A72 @ 1.8 GHz	Quad Core Arm Cortex A72 @ 1.8 GHz	Quad Core Arm Cortex A72 @ 1.8 GHz
Memory and flash	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC	8 GB DDR4 32 GB eMMC
Packet buffer	8 MB	8 MB	8 MB	8 MB
Performance				
Switching capacity	880 Gbps	880 Gbps	640 Gbps	496 Gbps
Throughput capacity	654 Mpps	654 Mpps	476 Mpps	369 Mpps
Average latency (LIFO 64 bytes packets)	1 Gbps: 2.28 µ Sec 10 Gbps: 1.46 µ Sec 25 Gbps: 1.90 µ Sec 50 Gbps[1]: 3.49 µ Sec	1 Gbps: 2.28 µ Sec 10 Gbps: 1.46 µ Sec 25 Gbps: 1.90 µ Sec 50 Gbps[1]: 3.49 µ Sec	1 Gbps: 2.28 µ Sec 10 Gbps: 1.46 µ Sec 25 Gbps: 1.90 µ Sec 50 Gbps[1]: 3.49 µ Sec	1 Gbps: 2.28 µ Sec 10 Gbps: 1.46 µ Sec 25 Gbps: 1.90 µ Sec 50 Gbps[1]: 3.49 µ Sec
Stack size	10 members	10 members	10 members	10 members
Max. stacking distance	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
Stacking bandwidth	200 Gbps	200 Gbps	200 Gbps	200 Gbps
Switched virtual interfaces (dual stack)	1,024	1,024	1,024	1,024
IPv4 host table (ARP)	49,152	49,152	49,152	49,152
IPv6 host table (ND)	49,152	49,152	49,152	49,152
IPv4 unicast routes	61,000	61,000	61,000	61,000
IPv6 unicast routes	61,000	61,000	61,000	61,000
IPv4 multicast routes	8,192	8,192	8,192	8,192
IPv6 multicast routes	8,192	8,192	8,192	8,192
MAC table capacity	32,768	32,768	32,768	32,768
IGMP groups	4,096	4,096	4,096	4,096
MLD groups	4,096	4,096	4,096	4,096
IPv4/IPv6/MAC ACL entries (ingress)	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480	20,480/5,120/20,480
IPv4/IPv6/MAC ACL entries (egress)	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192	8,192/2,048/8,192
VRF	256	256	256	256

[1]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 (continued)

	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)
Environment				
Operating temperature	32°F to 113°F (0°C to 45°C) up to 5,000 ft. Derate -1°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[1] of time. Operating temperature is reduced to 32°F (0°C) to 104°F (40°C) up to 5000 ft 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°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°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[1] 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°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[1] of time.
Operating relative humidity	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
Non-operating	-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
Non-operating storage relative humidity	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
Max operating altitude	10,000 ft (3.04 km) Max	10,000 ft (3.04 km) Max	10,000 ft (3.04 km) Max	10,000 ft (3.04 km) Max
Max non-operating altitude	15,000 ft (4.6 km) Max	15,000 ft (4.6 km) Max	15,000 ft (4.6 km) Max	15,000 ft (4.6 km) Max
Acoustic	Sound Power, LWAd = 4.9 Bel Sound Pressure, LpAm (Bystander) = 31.0 dB	Sound Power, LWAd = 4.8 Bel Sound Pressure, LpAm (Bystander) = 30.6 dB	Sound Power, LWAd = 5.2 Bel Sound Pressure, LpAm (Bystander) = 34.2 dB	Sound Power, LWAd = 4.7 Bel Sound Pressure, LpAm (Bystander) = 29.8 dB
Primary airflow	Front and side to back	Front and side to back	Front and side to back	Front and side to back
Electrical characteristics				
Frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
AC voltage	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
Current (for voltages listed above)	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
Power consumption (230VAC)	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

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

Technical specifications (continued)

	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)
Safety				
	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013 US: UL 60950-1 2nd Ed. Canada: CAN/ CSA-C22.2 No. 60950-1-07 Worldwide: IEC 60950-1:2005 w/ all known National Deviations	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013 US: UL 60950-1 2nd Ed. Canada: CAN/ CSA-C22.2 No. 60950-1-07 Worldwide: IEC 60950-1:2005 w/ all known National Deviations	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013 US: UL 60950-1 2nd Ed. Canada: CAN/ CSA-C22.2 No. 60950-1-07 Worldwide: IEC 60950-1:2005 w/ all known National Deviations	Europe: EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011 + A2:2013 US: UL 60950-1 2nd Ed. Canada: CAN/ CSA-C22.2 No. 60950-1-07 Worldwide: IEC 60950-1:2005 w/ all known National Deviations
Emissions				
	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 Canada: ICES-003 Class A Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	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 Canada: ICES-003 Class A Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	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 Canada: ICES-003 Class A Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010	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 Canada: ICES-003 Class A Worldwide: VCCI Class A CISPR 22 Class A CISPR 32 Class A CISPR 24:2010
Lasers				
	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 (continued)

	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)
Immunity				
Generic	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35	CISPR 24 / CISPR 35
EN	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017	EN 55024:2010 / EN 55035:2017
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	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
Flicker	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
Mounting and enclosure				
	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.

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
— UL 1069 Standard for Hospital Signaling and Nurse Call Equipment[1]

[1] UL 1069 standard supported in the US on JL659A and JL660A switch models

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)

— HPE Aruba Networking CX 6300M 24p SFP+ 1G/10G 4p SFP56 50G 2xFan PSU Bundle (S5Z46A)

— HPE Aruba Networking 6300M 16p SmtRt 5G 32p 1G Class8 PoE 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P41A)

— HPE Aruba Networking 6300M 32p SmtRt 5G CL8 8p SFP+ 10G LRM 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P42A)

— HPE Aruba Networking 6300M 48p SFP 1G 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P43A)

— HPE Aruba Networking 6300M 24p SFP 1G 2p SFP28 25G MACsec 2p SFP56 50G Switch (S4P44A)

— HPE Aruba Networking 6300M 16p SmtRt 5G 32p 1G Class8 PoE 2p SFP28 25G MACsec 2p SFP56 50G TAA Sw (S4P45A)

— HPE Aruba Networking 6300M 32p SmtRt 5G 8p SFP+ 10G LRM 2p SFP28 25G MACsec 2p SFP56 50G TAA Switch (S4P46A)

— HPE Aruba Networking 6300M 48p SFP 1G 2p SFP28 25G MACsec 2p SFP56 50G TAA Switch (S4P47A)

— HPE Aruba Networking 6300M 24p SFP 1G 2p SFP28 25G MACsec 2p SFP56 50G TAA Switch (S4P48A)

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)[2]

Transceivers

— HPE Aruba Networking 100M SFP LC FX 2km MMF XCVR (J9054D)[3]
— 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)
— HPE Aruba Networking 1G SFP RJ45 T 100m Cat5e TAA Transceiver (JL747A)
— HPE Aruba Networking 10G SFP+ LC SR 300m MMF Transceiver (J9150D)[4]
— HPE Aruba Networking 10G SFP+ LC LRM 220m MMF Transceiver (J9152D)[5]
— HPE Aruba Networking 10G SFP+ LC LR 10km SMF Transceiver (J9151E)[4]
— HPE Aruba Networking 10G SFP+ LC ER 40km SMF Transceiver (J9153D)[4]
— HPE Aruba Networking 10GBASE-T SFP+ RJ45 30m Transceiver (JL563C)
— 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)[4]
— HPE Aruba Networking 25G SFP28 LC eSR 400m MMF Transceiver (JL485A)[4]
— HPE Aruba Networking 25G eSR SFP28 LC 400m TAA Transceiver (S5U19A)
— HPE Aruba Networking 25G SFP28 LC LR 10km SMF Transceiver (JL486A)[4]
— HPE Aruba Networking 25G SFP LC LR 10km SMF TAA XCVR (S2N63A)
— HPE Aruba Networking 50G SFP56 LC SR 100m MMF XCVR (R0M48A)
— HPE Aruba Networking 50G eSR 300m MMF Transceiver (S0V64A)
— HPE Aruba Networking 50G LR 10km SMF Transceiver (S0V65A)
— HPE Aruba Networking 50G ER 40km SMF Transceiver (S0V66A)
— HPE Aruba Networking 25G ER LC 40km SMF Transceiver (S0V69A)[4]
— 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)[6]
— HPE Aruba Networking 4x100G DR QSFP-DD SN 500m SMF Transceiver (S3N90A)[6]
— HPE X142 40G QSFP+ MPO SR4 Transceiver (JH231A)[6]

[2] HPE QSFP28 to SFP28 Adapter (845970-B21) required to support 10G and 25G transceivers only when used with S0E91A and S0X44A switch models.
[3] J9054D 100 Mbps transceiver only supported in SFP+ ports on JL658A. 100 Mbps transceivers are not supported in any SFP56 port on all models.
[4] HPE QSFP28 to SFP28 Adapter (845970-B21) required when used with S0E91A and S0X44A switch models.
[5] J9152D XCVR natively supported only in the R8S91A and R8S92A models
[6] QSFP+ and QSFP28 products for use with S0E91A and S0X44A switch models only

— HPE Aruba Networking 100G QSFP28 MPO SR4 100m 12-fiber MPO MMF Transceiver (JL309A)[6]
— HPE Aruba Networking 100G LR QSFP28 LC SMF XCVR (S3N89A)[5]
— HPE X142 40G QSFP+ MPO eSR4 300M XCVR (JH233A)[6]
— HPE Aruba Networking 40G QSFP+ LC BiDi 150m MMF Transceiver (JL308A)[6]
— HPE X142 40G QSFP+ LC LR4 SM Transceiver (JH232A)[6]
— HPE Aruba Networking 40G QSFP+ LC ER4 40km SMF XCVR (Q9G82A)[6]
— HPE 100Gb QSFP28 Bi-directional XCVR (845972-B21)[6]
— HPE Aruba Networking 100G QSFP28 LC CWDM4 2km SMF Transceiver (R0Z30A)[6]
— HPE Aruba Networking 100 QSFP28 LC FR1 2km SMF Transceiver (R9B63A)[6]
— HPE Aruba Networking 100G QSFP28 LC LR4 10km SMF 2-strand Transceiver (JL310A)[6]
— HPE Aruba Networking 100G QSFP28 LC ER4L 40km SMF Transceiver (JL743A)[6]
— HPE Aruba Networking 25G BiDi 10km-Downstream 1330/1270 Transceiver (S1C96A)[6]
— HPE Aruba Networking 25G BiDi 10km-Upstream 1270/1330 Transceiver (S1C98A)[6]
— HPE Aruba Networking 25G BR40-D 1314/1289 Transceiver (S0V70A)
— HPE Aruba Networking 25G BR40-D 1289/1314 Transceiver (S0V71A)

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 (R0M46A)[1]
— HPE Aruba Networking 50G SFP56 to SFP56 3m DAC Cable (R0M47A)[1]
— HPE X242 40G QSFP+ to QSFP+ 1m DAC Cable (JH234A)[6]
— HPE X242 40G QSFP+ to QSFP+ 3m DAC Cable (JH235A)[6]
— HPE X242 40G QSFP+ to QSFP+ 5m DAC Cable (JH236A)[6]
— HPE Aruba Networking 40G QSFP+ to QSFP+ 7m AOC (R0Z22A)[6]
— HPE Aruba Networking 40G QSFP+ to QSFP+ 15m AOC (R0Z23A)[6]
— HPE Aruba Networking 40G QSFP+ to QSFP+ 30m AOC (R0Z24A)[6]
— HPE Aruba Networking 100G QSFP28-QSFP28 3m DAC Cable (JL307A)[6]
— HPE Aruba Networking 100G QSFP28 to QSFP28 1m Direct Attach Copper Cable (R0Z25A)[6]
— HPE Aruba Networking 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable (JL307A)[6]
— HPE Aruba Networking 100G QSFP28 to QSFP28 5m Direct Attach Copper Cable (R0Z26A)[6]

Software

— HPE Aruba Networking CX Mobile App is subscription free
— 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 (S0T76AAE)
— HPE Aruba Networking CX Soft 63xx Sw Adv 1y E-STU (S0T77AAE)
— HPE Aruba Networking CX Soft 63xx Sw Adv 3y E-STU (S0T78AAE)
— HPE Aruba Networking CX Soft 63xx Sw Adv 5y E-STU (S0T79AAE)
— HPE Aruba Networking CX Soft 63xx Sw Adv 7y E-STU (S0T80AAE)

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)

[5] J9152D XCVR natively supported only in the R8S91A and R8S92A models
[6]QSFP+ and QSFP28 products for use with S0E91A and S0X44A switch models only

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

Learn more at

HPE.com/us/en/aruba-cx-switches.html

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HPE aruba networking

Data sheet



HPE Aruba Networking 730 Series Campus Access Points

Fast, resilient, high-density, and secure Wi-Fi 7 connectivity

HPE

Key features

— Wi-Fi 7 (802.11be) brings multilink operation (MLO) for channel aggregation and 4K QAM for higher throughput and lower latency

— Unleashes the 6 GHz band to more than double the available capacity

— Comprehensive tri-band coverage across 2.4 GHz, 5 GHz, and 6 GHz to deliver 9.3 Gbps maximum tri-band aggregate data rate

— Capable of up to 14.4 Gbps maximum aggregate data rate using optional dual 5 GHz and 6 GHz radio modes[1]

— Up to three 320 MHz channels in 6 GHz support low-latency, bandwidth-hungry applications like high-definition video and augmented reality/virtual reality applications

— Patented UTB filtering enables 5 GHz and 6 GHz to operate without restrictions or interference

— High availability with dual 5 Gbps ports for redundant Ethernet and power

— The built-in GNSS receiver, barometric pressure sensor, and intelligent software enable access points to self-locate and act as reference points for accurate indoor location measurements

— MACsec support[2] extends wired Ethernet protection to the access point

For enterprises looking for to deliver secure, high performance Wi-Fi to users and Internet of Things (IoT) devices, the HPE Aruba Networking 730 Series Campus Access Points go beyond the Wi-Fi 7 standard to take full advantage of the 6 GHz band, connect more IoT devices, strengthen security across wired and wireless, and enable highly accurate location aware capabilities. HPE Aruba Networking Central helps drive efficient operations and provides AI-automation and machine learning (ML) insights for improved wireless connectivity.

Unique to HPE Aruba Networking, the 730 series access points include ultra tri-band (UTB) filtering and dual 5 Gbps Ethernet ports to help eliminate coverage gaps, provide greater resiliency, and deliver fast, secure connectivity.

AI-powered Wi-Fi 7

Managing Wi-Fi 7 access points is easier with HPE Aruba Networking Central that provides intelligent automation, AI insights, and unified infrastructure management. The 730 series is supported by HPE Aruba Networking Wireless Operating System (OS-10).

More capacity and wider channels

The HPE Aruba Networking 730 Series Campus Access Points are designed to take advantage of the 6 GHz band through three dedicated radios, which translates into far greater speeds, wider channels for multi-gigabit traffic, and less interference. It delivers up to 9.3 Gbps maximum tri-band aggregate data rate, using three 2x2 MIMO radios (2.4 GHz, 5 GHz, and 6 GHz).

To further increase the wireless capacity, the 2.4 GHz radio can be reconfigured to deliver an optional dual-5 GHz or dual-6 GHz mode, which further increases the maximum aggregate data rate to 14.4 Gbps in dual 6 GHz mode.[3]

Table 1. Peak data rates

Band	Channel bandwidth	Peak data rate
6 GHz	320 MHz	5.8 Gbps
5 GHz	160 MHz	2.9 Gbps
2.4 GHz	20 MHz 40 MHz	344 Mbps 688 Mbps
Total using 2.4 GHz with 20 MHz Total using 2.4 GHz with 40 MHz Total using dual 6 GHz (no 2.4 GHz)[1]		9.0 Gbps 9.3 Gbps 14.4 Gbps

[1] Feature available in a future software release

[2, 3] Feature available in a future software release

Wi-Fi 7 standard

The new Wi-Fi 7 standard (802.11be) extends the capabilities of Wi-Fi 6E, including the use of the 6 GHz band. New capabilities include wide 320 MHz bandwidth channels, MLO for channel aggregation across different bands and failover, and 4096 QAM (4K QAM) for higher peak data rates.

Advantages of 6 GHz

Wi-Fi 7 takes advantage of up to 1200 MHz in the 6 GHz band for higher throughput and improved application performance. With up to three 320 MHz channels or seven 160 MHz channels, Wi-Fi 7 can better support low-latency, bandwidth-hungry applications like high-definition video and artificial reality/virtual reality applications. Only Wi-Fi 6E or 7 capable devices can use the 6 GHz band so there is no interference or slowdowns due to legacy devices.

Device class support

HPE Aruba Networking AP-735 Campus Access Points with integrated antennas are part of the low power indoor (LPI) device class. This fixed indoor-only class uses lower power levels and does not require an automated frequency coordination service (AFC) to manage incumbent outdoor services which is required for standard class access points. The AP-734 connectorized models will typically operate as standard power APs but may also be allowed to operate as LPI devices in some countries.

Less interference

HPE Aruba Networking 730 Series Campus Access Points include HPE Aruba Networking patented UTB filtering, which enables enterprises to take advantage of the high end of 5 GHz with the lower end of 6 GHz without experiencing interference. Since there is only 50 MHz between 5 GHz and 6 GHz, without advanced filtering, enterprises would likely experience problems between the bands and would therefore be limited in the number of channels available. By applying advanced filtering capabilities, enterprises can fully utilize the available spectrum without creating coverage gaps or islands.

Business continuity

The HPE Aruba Networking 730 Series Campus Access Points provide high availability with two HPE Smart Rate Ethernet ports for hitless failover for both data and power. Configurable to 1, 2.5, or 5 Gbps, these dual ports provide business continuity for mission-critical applications.

Global readiness

While the need for more Wi-Fi capacity is recognized across the globe, countries are approaching 6 GHz differently. The HPE Aruba Networking 730 Series Campus Access Points are set up to automatically update regulatory rules once Wi-Fi 7 regulations have been approved and certified.

Extend the benefits of Wi-Fi 6

The HPE Aruba Networking 730 Series Campus Access Points are based on the 802.11be standard, which means that all its efficiency and security enhancements are also available on the 6 GHz band. Wi-Fi 6 features such as orthogonal frequency-division multiple access (OFDMA), BSS coloring, and so on are fully supported on all HPE Aruba Networking Wi-Fi 6E and Wi-Fi 7 access points as well.

Advantages of OFDMA

This capability allows HPE Aruba Networking access points to handle multiple 802.11be capable clients on each channel simultaneously, regardless of device or traffic type. Channel utilization is optimized by handling each transaction through smaller subcarriers or resource units (RUs), which means that clients are sharing a channel and not competing for airtime and bandwidth.

Wi-Fi optimization

Client optimization

The patented AI-powered HPE Aruba Networking Central ClientMatch technology helps eliminate sticky client issues by steering a client to the access point where it receives the best radio signal. It steers traffic from the noisy 2.4 GHz band to the preferred 5 GHz or GHz band depending on client capabilities. Also dynamically steers traffic to load balance access points to improve the user experience.

The HPE Aruba Networking 730 Series Campus Access Points include a built-in GPS receiver, barometric pressure sensor, and intelligent software to allow them to automatically locate themselves accurately within the universal framework of latitude and longitude.

Automated Wi-Fi radio frequency management

To optimize the user experience and provide greater stability, HPE Aruba Networking AirMatch allows organizations to automate network optimization using machine learning (ML). It provides dynamic bandwidth adjustments to support changing device density, enhanced roaming using an even distribution of effective isotropic radiated power (EIRP) to radios, and real-time channel assignments to mitigate cochannel interference.

Reduce interference

Unique HPE Aruba Networking Advanced Cellular Coexistence (ACC) uses built-in filtering to automatically reduce the impact of interference from cellular networks, distributed antenna systems (DAS), and commercial small cell or femtocell equipment.

Dynamic power save mode

Access points switch into a dynamic power save mode and automatically wake up at a schedule when connectivity demand arises, reducing power demands and saving money in alignment with the organization's sustainability initiatives.

Intelligent Power Monitoring

For better insights into energy consumption, HPE Aruba Networking access points continuously monitor and report hardware energy usage. Unlike other vendor's access points, HPE Aruba Networking access points can also be configured to enable or disable capabilities based on available Power over Ethernet (PoE) power — ideal when wired switches have exhausted their power budget. Enterprises can deploy Wi-Fi 7 access points and update switching and power at a later if needed based on their actual usage.

Self-locating access points

Indoor location shouldn't require guesswork or costly or complex overlay technologies. HPE Aruba Networking Wi-Fi 7, Wi-Fi 6E, and Wi-Fi 6 access points help organizations leverage their wireless investment to deliver indoor location capabilities everywhere.

As part of HPE Aruba Networking indoor location solutions, they serve as reference points for client devices and other technologies using fine time measurement (FTM).

Open Locate, an emerging standard that allows access points to share their location over the air and through cloud-based application programming interface (APIs), enables mobile devices to locate themselves and applications to support network analytics.

The HPE Aruba Networking 730 Series Campus Access Points supports FTM 802.11az for sub one-meter accuracy, has a GNSS receiver built in for high accuracy indoor location measurements, and a built-in barometric sensor for altitude locationing within multistory buildings.

Access points as flexible and secure IoT platform

By combining IoT radios with a zero trust network framework, the HPE Aruba Networking 730 Series Campus Access Points can serve as flexible IoT platforms that bolster network security, provide coverage for a broad range of IoT devices, and help eliminate the need for network overlays just for IoT devices.

The 730 series includes two integrated Bluetooth and 802.15.4 radios for Zigbee support to simplify deploying and managing IoT-based location services, asset tracking services, security solutions, and IoT sensors. There are also two USB-port extensions to provide IoT connectivity to a wider range of devices.

These IoT capabilities allow organizations to leverage the access points as an IoT platform, which helps eliminate the need for an overlay infrastructure and additional IT resources and can accelerate IoT initiatives.

In addition, Target Wake Time (TWT) establishes a schedule when clients need to communicate with an access point. This helps improve client power savings and reduces airtime contention with other clients, which is ideal for IoT.

Streamline IoT operations

HPE Aruba Networking Central IoT operations is a service available for access points running HPE Aruba Networking Wireless Operating System (AOS-10) managed by HPE Aruba Networking Central that unifies visibility of IT and OT infrastructure within the network health dashboard by extending network monitoring and insights to Bluetooth (BLE), Zigbee, and other non-IP IoT devices. It helps streamline non–Wi-Fi device onboarding and data collection.

AI Client Insights

ML-based classification of all clients and IoT devices through HPE Aruba Networking Central Client Insights uses deep packet inspection to provide additional context and behavioral information that help ensure devices are receiving proper policy enforcement and continuously monitor for rogue devices.

Technology partnerships

A broad ecosystem of technology partners provide interoperability for easier installations and operations, and certified solutions are available to help digital transformation and extend capabilities of network infrastructure.

Security built-in

The HPE Aruba Networking 730 Series Campus Access Points includes security capabilities such as:

WPA3 and Enhanced Open

Support for stronger encryption and authentication is provided through the latest version of WPA for enterprise-protected networks. Enhanced Open offers seamless new protection for users connecting to open networks where each session is automatically encrypted to protect user passwords and data on guest networks.

WPA2-MPSK

MPSK enables simpler passkey management for WPA2 devices — should the Wi-Fi password on one device or device type change, no additional changes are needed for other devices. This capability requires HPE Aruba Networking ClearPass Policy Manager.

MACsec[4]

MACsec support extends wired Ethernet encryption to the access point using the 5 Gbps port.

Trusted Platform Module

For enhanced device assurance, all HPE Aruba Networking access points include an installed Trusted Platform Module (TPM) for secure storage of credentials and keys, and boot code.

User and device authentication

Cloud-native network access control (NAC) provided by HPE Aruba Networking Central further simplifies how IT controls network access while providing a frictionless experience for end users. Global policy automation and orchestration enables IT to define and maintain global policies at scale with ease, using UI-driven, intuitive workflows that automatically translate security intent into policy design and map user roles for employees, contractors, guests, and devices to their proper access privileges.

Intrusion Detection

HPE Aruba Networking Central utilizes the Rogue AP Intrusion Detection Service (RAPIDS) to identify and resolve issues caused by rogue access points and clients. Wired and wireless data is automatically correlated to identify potential threats, thereby strengthening network security and improving incident response processes by reducing false positives.

Web content filtering

Web Content Classification (WebCC) classifies websites by content category and rates them by reputation and risk score, enabling IT to block malicious sites to help prevent phishing, DDoS, botnets, and other common attacks.

Simple and secure access

To improve security and ease of management, IT can centrally configure and automatically enforce role-based policies that define proper access privileges for employees, guests, contractors, and other user groups — no matter where users connect on wired and WLANs. Dynamic segmentation helps eliminate the time consuming and error-prone task of managing complex and static VLANs, ACLs, and subnets by dynamically assigning policies and keeping traffic secure and separated.

[4] Feature available in a future software release

Seamless handoffs to cellular

Built on the technical foundations of Passpoint® and Wi-Fi calling, HPE Aruba Networking Air Pass creates a roaming network across the HPE Aruba Networking enterprise customer footprint, extending cellular coverage and enhancing the visitor and subscriber experience to deliver a great experience for your guests while reducing costs and management overhead for DAS.

Optimize with HPE Aruba Networking Wireless Operating System

Cloud-native HPE Aruba Networking Wireless Operating System (AOS-10) is the distributed network operating system working with HPE Aruba Networking Central that acts as the control layer for HPE Aruba Networking access points and gateways. With its flexible architecture, IT can deliver reliable and secure wireless connectivity for small offices, mid-sized branches, large campus environments, and remote workers. Working in tandem with cloud-native HPE Aruba Networking Central, HPE Aruba Networking Wireless Operating System (AOS-10) provides the WLAN management and control to deliver greater scalability, security, and AI-powered optimization. Using HPE Aruba Networking Wireless Operating System (AOS-10) together with cloud-based HPE Aruba Networking Central for management and orchestration reduces processing required by the on-site gateways to manage clients and access points. Enterprises can then optimize gateway deployments with fewer gateways in very large environments with thousands of access points and devices.

Flexible operation and management

Our unified access points can operate as stand-alone access points or with a gateway for greater scalability, security, and manageability. Access points can be deployed using zero touch provisioning — without on-site technical expertise — for ease of implementation in branch offices and for remote work.

HPE Aruba Networking access points can be managed using cloud-based solutions for any campus, branch, or remote work environment. HPE Aruba Networking Central provides a single pane of glass for overseeing every aspect of wired and wireless LANs, WANs, and VPNs. AI-powered analytics, end-to-end orchestration and automation, and advanced security features are built natively into the solution.

Simplified, flexible consumption

The HPE Aruba Networking 730 Series Campus Access Points require HPE Aruba Networking Central subscription-based licenses, which are purchased on a per-device basis for access points and gateways. Licenses are available in 1-, 3-, 5-, 7-, and 10-year increments, making it easy to align requirements for AIOps, security, and other desired management features.

HPE Aruba Networking Wireless Operating System (AOS-10) is included in the subscription. Learn more about HPE Aruba Networking Central.

Summary

HPE Aruba Networking 730 Series Campus Access Points extend beyond the Wi-Fi 7 standard to increase 6 GHz capacity by up to 30%, connect 2x the IoT devices, strengthen security across wired and wireless and enable highly accurate location aware capabilities. Unique to HPE Aruba Networking, the HPE Aruba Networking Wireless Operating System (AOS-10) based 730 series access points include UTB filtering and dual 5 Gbps Ethernet ports to help eliminate coverage gaps, provide greater resiliency, and deliver fast, secure connectivity.

Technical specifications

Hardware variants

— HPE Aruba Networking AP-734: External antenna models

— HPE Aruba Networking AP-735: Internal antenna models

Wi-Fi radio specifications

— AP type: Indoor, tri radio, 2.4 GHz, 5 GHz, and 6 GHz (concurrent) 802.11be 2x2 MIMO

— 2.4 GHz radio: Two spatial stream MIMO for up to 688 Mbps wireless data rate with 2SS EHT40 802.11be client devices

— 5 GHz radio: Two spatial stream MIMO for up to 2.9 Gbps wireless data rate with 2SS EHT160 802.11be client devices

— 6 GHz radio: Two spatial stream MIMO for up to 5.8 Gbps wireless data rate with 2SS EHT320 802.11be client devices

— MU-MIMO (downlink, uplink) is supported on all radios

— Up to 512 associated client devices per radio, and up to 16 BSSIDs per radio

— Supported frequency bands (country-specific restrictions apply):
  • 2.400 to 2.4835 GHz ISM
  • 5.150 to 5.250 GHz U-NII-1
  • 5.250 to 5.350 GHz U-NII-2
  • 5.470 to 5.725 GHz U-NII-2E
  • 5.725 to 5.850 GHz U-NII-3/ISM
  • 5.850 to 5.895 GHz U-NII-4
  • 5.925 to 6.425 GHz U-NII-5
  • 6.425 to 6.525 GHz U-NII-6[5]
  • 6.525 to 6.875 GHz U-NII-7
  • 6.875 to 7.125 GHz U-NII-8

— When the AP is configured in dual-5 GHz mode,[6] one radio covers U-NII-1 and -2, while a second radio covers U-NII-2E, -3/ISM and -4. The third radio covers the full 6 GHz band.

— When the AP is configured in dual-6 GHz mode,[7] one radio covers U-NII-5, while a second radio covers U-NII-7 and -8. The third radio covers the full 5 GHz band.

— Available bands and channels: Dependent on configured regulatory domain (country)

— Dynamic frequency selection (DFS) optimizes the use of available RF spectrum in the 5 GHz band

— Supported radio technologies:
  • 802.11b: Direct-sequence spread-spectrum (DSSS)
  • 802.11a/g/n/ac: OFDM
  • 802.11ax/be: OFDMA with up to 37 RU

— Supported modulation types:
  • 802.11b: BPSK, QPSK, CCK
  • 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM and 256-QAM (proprietary extension)
  • 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM and 1024-QAM (proprietary extension)
  • 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, and 1024-QAM
  • 802.11be: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, and 4096-QAM

— 802.11n high throughput (HT) support: HT20/40

— 802.11ac very high throughput (VHT) support: VHT20/40/80/160

— 802.11ax high efficiency (HE) support: HE20/40/80/160

— 802.11be extreme high throughput (EHT) support: EHT20/40/80/160/320

— Supported data rates (Mbps):
  • 802.11b: 1, 2, 5.5, 11
  • 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54
  • 802.11n: 6.5 to 300 (MCS0 to MCS15, HT20 to HT40), 400 with 256-QAM (proprietary extension)
  • 802.11ac: 6.5 to 867 (MCS0 to MCS9, NSS = 1 to 2, VHT20 to VHT80); 1,083 with 1024-QAM (MCS10 and MCS11, proprietary extension)
  • 802.11ax: 7.3 to 2,402 (MCS0 to MCS11, NSS = 1 to 2, HE20 to HE160)

— 802.11be: 7.3 to 5,765 (MCS0 to MCS13, NSS = 1 to 2, EHT20 to EHT320)

— 802.11n/ac packet aggregation: A-MPDU, A-MSDU

— Transmit power: Configurable in increments of 0.5 dBm

— Maximum (aggregate, conducted total) transmit power (limited by local regulatory requirements
  • Per radio/band (2.4 GHz/ 5 GHz/6 GHz): +21 dBm (18 dBm per chain)
  • Note: Conducted transmit power levels exclude antenna gain. For total (EIRP) transmit power, add antenna gain.

— ACC reduces the impact of interference from cellular networks

— UTB enables ultimate flexibility in 5 GHz and 6 GHz channel selection without performance degradation

— Maximum ratio combining (MRC) for improved receiver performance

— Cyclic delay / shift diversity (CDD/CSD) for improved downlink RF performance

— Space-time block coding (STBC) for increased range and improved reception

— Low-density parity check (LDPC) for high-efficiency error correction and increased throughput

— Transmit beam-forming (TxBF) for increased signal reliability and range

— 802.11ax TWT to support low-power client devices

— 802.11mc/az FTM for precision distance ranging

[5] The U-NII-6 band is not supported when the AP-735 is configured for dual-6 GHz mode

[6,7] Feature available in a future software release

Wi-Fi antennas

— AP-734: Two sets of two (female) RP-SMA connectors for external antennas (A0 and A1 corresponding with radio chains 0 and 1 for the 2.4 GHz and 5 GHz radios, and B0 and B1 corresponding with radio chains 0 and 1 for the 6 GHz radio). Worst-case internal loss between radio interface and external antenna connectors: 0.8 dB in 2.4 GHz, 1.2 dB in 5 GHz, and 1.2 dB in 6 GHz.

— AP-735: Integrated downtilt omnidirectional antennas for 2x2 MIMO with peak antenna gain of 5.1 dBi in 2.4 GHz, 5.5 dBi in 5 GHz and 5.3 dBi in 6 GHz. Built-in antennas are optimized for horizontal ceiling mounted orientation of the access point. The downtilt angle for maximum gain is roughly 30° to 40°.

  • Combining the patterns of each of the antennas of the MIMO radios, the peak gain of the combined, average pattern is 3.9 dBi in 2.4 GHz, 4.1 dBi in 5 GHz and 3.9 dBi in 6 GHz.

Other interfaces and features

— E0, E1: Two Ethernet wired network ports (RJ-45)

  • Auto-sensing link speed (100/1000/2500/5000BASE-T) and MDI/MDIX

  • PoE-PD: 48 Vdc (nominal) 802.3at/bt PoE (class 4 or higher)

  • 802.3az Energy Efficient Ethernet (EEE)

  • Link Aggregation Control Protocol (LACP) support between both network ports for redundancy and increased capacity

  • MACsec support on E0 (802.1ae)

— DC power interface: 12 Vdc (nominal,+/– 5%), accepts 2.1 mm/5.5 mm center-positive circular plug with 9.5 mm length

— U0, U1: Two USB 2.0 host interface (Type A connector)

  • Capable of sourcing up to 2A/10W to one or two attached devices

— Flexible dual IoT radio options: BLE 5.4 (w/HADM), plus either BLE 5.4 or 802.15.4/Zigbee:

  • BLE: BT5.4 with up to 10 dBm transmit power (class 1) and –105 dBm receive sensitivity (125 kbps)

  • IEEE 802.15.4/Zigbee: up to 10 dBm transmit power and –100 dBm receive sensitivity (250 kbps)

  • Integrated omnidirectional antenna with roughly 30° to 40° downtilt and peak gain of 4.7 dBi (AP-734) or 5.1 dBi (AP-735)

— GNSS L1 (1575.42 MHz) and L5 (1176.45 MHz) receiver supporting GPS, Galileo, GLONASS, and BeiDou signal

  • Receive sensitivity: –160 dBm (tracking)

  • Integrated omnidirectional antenna with roughly 30° to 40° downtilt and peak gain of 2.8 dBi (AP-734) or 4.4 dBi (AP-735)

  • Integrated barometric pressure sensor to determine (relative) deployment altitude of the AP

  • Advanced IoT Coexistence (AIC) allows concurrent operation of multiple radios in the 2.4 GHz band

  • Built-in TPM for enhanced security and anti-counterfeiting

  • Visual indicators (four multi-color LEDs): for System (1x) and Radio (3x) status

  • Reset button: factory reset, LED mode control (normal/off)

  • Serial console interface (proprietary, micro-B USB physical jack)

  • Kensington security slot

  • Automatic thermal shutdown and recovery function

Table 2. Default PoE power modes (IPM disabled). Enable the IPM feature to manage or avoid restrictions

Single PoE source	Class 5 (802.3bt)	Class 4 (802.3at)	Class 3 (802.3af)
Available power budget	40W	25.5W	13.9W
AP power mode	Unrestricted	Restricted	Staging support only, no radios will be enabled
USB ports	Enabled	Disabled	Staging support only, no radios will be enabled
Ethernet ports	Both ports enabled	Both ports enabled	Staging support only, no radios will be enabled
MIMO operation	2x2	2x2	Staging support only, no radios will be enabled
Reduced max RF transmit power	0 dB	0 dB	Staging support only, no radios will be enabled

Power sources and power consumption

- The access point supports direct DC power and PoE on port E0 and/or E1
- When both DC and PoE power sources are available, DC power takes priority over PoE
- When PoE power is supplied to both Ethernet ports, either port can be configured as the active power source
- Inactive/standby PoE power sources can be used to deliver hitless failover
- Power sources are sold separately; see the HPE Aruba Networking 730 Series ordering guide for details
- When powered by DC or 802.3bt (class 5) PoE, the access point will operate without restrictions
- When powered by 802.3at (class 4) PoE with the IPM feature disabled, the access point will disable the USB ports
- Operating the access point with an 802.3af (class 3 or lower) PoE source is not supported (except for AP staging)
- With IPM enabled, the access point will start up in unrestricted mode but may dynamically apply restrictions depending on the available power budget and actual consumption. The feature restrictions and order in which these get applied are configurable
- Maximum (worst case) power consumption (without/with USB devices attached):
- DC powered: 20W/31W
- PoE powered: 24W/36W
- This assumes that up to 10W is supplied to the attached USB devices
- Maximum (worst case) power consumption in idle mode: 8W/19W (DC) or 12W/24W (PoE)
- Maximum (worst case) power consumption in deep-sleep mode: 1.5W (DC) or 2.0W (PoE)

Mounting details

A mounting bracket has been preinstalled on the back of the access point. This bracket is used to secure the access point to any of the mount kits (sold separately); see the HPE Aruba Networking 730 Series Campus Access Points ordering guide for details.

Mechanical specifications

- Dimensions/weight (HPE Aruba Networking AP-735; unit without mount bracket):
  - 240 mm (W) x 240 mm (D) x 56 mm (H)
  - 1440g
- Dimensions/weight (AP-735; shipping):
  - 271 mm (W) x 258 mm (D) x 89 mm (H)
  - 1830g

Environmental specifications

- Operating conditions
  - Temperature: 0ºC to +50ºC/+32ºF to +122ºF
  - Relative humidity: 5% to 95%
  - ETS 300 019 class 3.2 environments
  - AP is plenum rated for use in air-handling spaces
- Storage conditions
  - Temperature: –25ºC to +55ºC/ –13ºF to +131ºF
  - Relative humidity: 10% to 100%
  - ETS 300 019 class 1.2 environments
- Transportation conditions
  - Temperature: –40ºC to +70ºC/ –40ºF to +158ºF
  - Relative humidity: up to 95%
  - ETS 300 019 class 2.3 environments

Reliability

- Mean time between failure (MTBF): 635 khrs (72 years at +25ºC operating temperature (AP-735)

General regulatory statements

HPE Aruba Networking WLAN access points comply with all regulatory rules that apply in the country they are configured for. In most countries these products may not be allowed to enable all available radios and channels, and various restrictions may apply (RF transmit power levels, radar detection, and so on). Hewlett Packard Enterprise will continue to upgrade the software and regulatory restrictions that apply to these products to help ensure they remain in compliance with the latest regulatory rules in the country of operation.

However, this does not imply a promise or commitment to enable all radios in all countries where we ship these products, and/or enabling all deployment scenarios (indoor/outdoor for example) that they can be configured for. Consult your HPE representative to confirm the latest regulatory status for each product in the country of operation and any anticipated future enhancements or other changes, as well as check the regulatory rules through the host country's regulatory agencies for more.

Regulatory compliance

- FCC/ISED
- CE Marked
- Low Voltage Directive 2014/35/EU
- UL/IEC/EN 62368-1
- EN 60601-1-2

For more country-specific regulatory information and approvals, see your HPE representative.

Regulatory model numbers

— HPE Aruba Networking AP-734 (all models): APIN0734
— HPE Aruba Networking AP-735 (all models): APIN0735

Certifications

— UL2043 plenum rating
— Wi-Fi Alliance (WFA):
  • Wi-Fi CERTIFIED a, b, g, n, ac, 6, 7
  • PA2 and WPA3 (Enterprise, Personal), Enhanced Open (OWE)
  • WMM, WMM-PS, W-Fi agile multiband
— Bluetooth SIG
— Ethernet Alliance (PoE, PD device, class 5)

Warranty

HPE Aruba Networking hardware limited lifetime warranty.

Minimum operating system software versions

HPE Aruba Networking Wireless Operating System OS 10.7.0.0

Table 3. RF performance

Band, rate	Maximum transmit power (dBm) per transmit chain	Receiver sensitivity (dBm) per receive chain
2.4 GHz, 802.11b		
1 Mbps	18.0	–96.0
11 Mbps	18.0	–88.0
2.4 GHz, 802.11g		
6 Mbps	18.0	–93.0
54 Mbps	17.0	–74.0
2.4 GHz, 802.11n HT20		
MCS0	18.0	–93.0
MCS7	16.0	–74.0
2.4 GHz, 802.11ax HE20		
MCS0	18.0	–93.0
MCS11	14.0	–62.0
2.4 GHz, 802.11be EHT20		
MCS0	18.0	–93.0
MCS13	12.0	–58.0
5 GHz, 802.11a		
6 Mbps	18.0	–92.0
54 Mbps	16.0	–73.0
5 GHz, 802.11n HT20/HT40		
MCS0	18.0/18.0	–90.0/–89.0
MCS7	16.0/16.0	–73.0/–70.0

Table 3. RF performance (continued)

Band, rate	Maximum transmit power (dBm) per transmit chain	Receiver sensitivity (dBm) per receive chain
5 GHz, 802.11ac VHT20/VHT40/VHT80/VHT160		
MCS0	18.0/18.0/18.0/18.0	–90.0/–89.0/–86.0/–83.0
MCS9	14.0/14.0/14.0/14.0	–66.0/–63.0/–60.0/–57.0
5 GHz, 802.11ax HE20/HE40/HE80/HE160		
MCS0	18.0/18.0/18.0/18.0	–92.0/–89.0/–86.0/–83.0
MCS11	14.0/14.0/14.0/14.0	–61.0/–59.0/–56.0/–53.0
5 GHz, 802.11be EHT20/EHT40/EHT80/EHT160		
MCS0	18.0/18.0/18.0/18.0	–92.0/–89.0/–86.0/–83.0
MCS13	12.0/12.0/12.0/12.0	–56.0/–53.0/–49.0/–46.0
6 GHz, 802.11ax HE20/HE40/HE80/HE160		
MCS0	18.0/18.0/18.0/18.0	–90.0/–89.0/–86.0/–83.0
MCS11	14.0/14.0/14.0/14.0	–59.0/–58.0/–56.0/–54.0
6 GHz, 802.11be EHT20/EHT40/EHT80/EHT160/EHT320		
MCS0	18.0/18.0/18.0/18.0/18.0	–90.0/–89.0/–86.0/–83.0/–80.0
MCS13	12.0/12.0/12.0/12.0/12.0	–53.0/–52.0/–50.0/–47.0/–44.0

Wi-Fi antenna patterns AP-735

Horizontal planes (top view)

Showing both azimuth 0° and 30° downtilt patterns (averaged patterns for all applicable antennas)

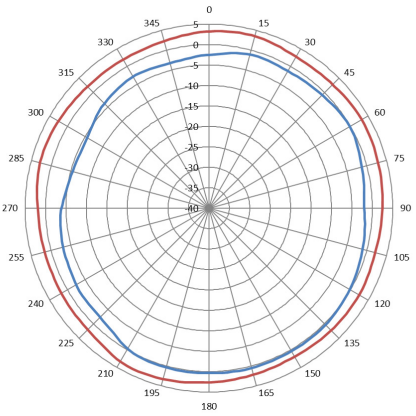


Figure 1. 2.44 GHz Wi-Fi antenna patterns (horizontal)

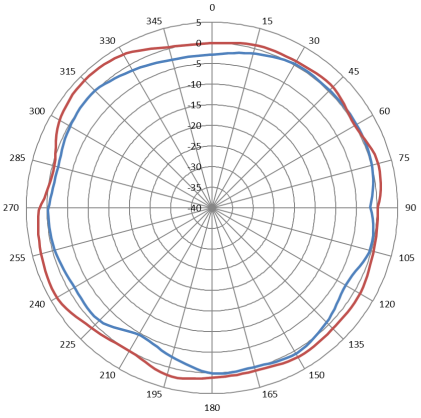


Figure 2. 5.5 GHz Wi-Fi antenna patterns (horizontal)

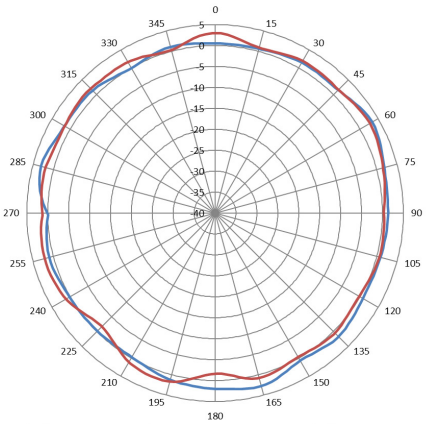


Figure 3. 6.5 GHz Wi-Fi antenna patterns (horizontal)

Vertical (elevation) planes (side view, access point facing down)

Showing side view with AP rotated 0º and 90º (averaged patterns for all applicable antennas)

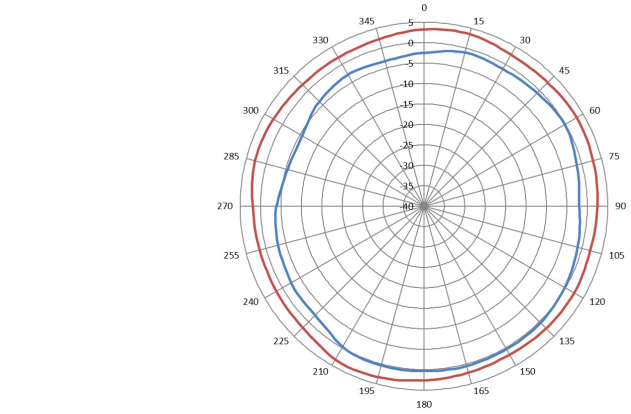


Figure 4. 2.44 GHz Wi-Fi antenna patterns (vertical)

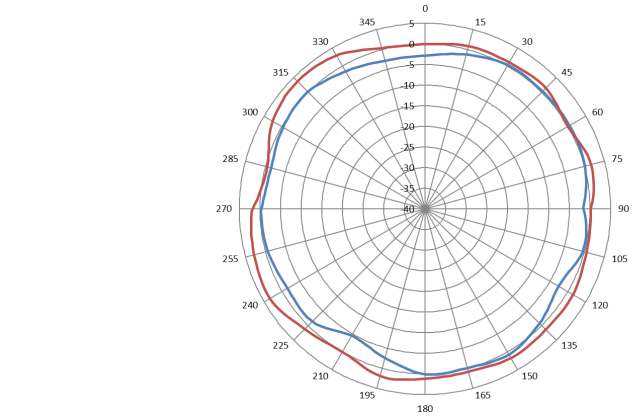


Figure 5. 5.5 GHz Wi-Fi antenna patterns (vertical)

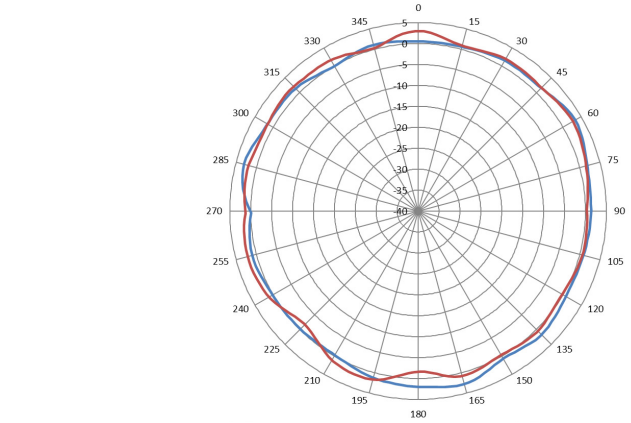


Figure 6. 6.5 GHz Wi-Fi antenna patterns (vertical)

Table 4. Ordering information

Part number	Description
Internal antenna access points	
S1G39A	HPE Aruba Networking AP-735 (EG) Tri-radio 2x2:2 802.11be Wi-Fi 7 Internal Antennas Campus AP
S1G40A	HPE Aruba Networking AP-735 (IL) Tri-radio 2x2:2 802.11be Wi-Fi 7 Internal Antennas Campus AP
S1G41A	HPE Aruba Networking AP-735 (JP) Tri-radio 2x2:2 802.11be Wi-Fi 7 Internal Antennas Campus AP
S1G42A	HPE Aruba Networking AP-735 (RW) Tri-radio 2x2:2 802.11be Wi-Fi 7 Internal Antennas Campus AP
S1G43A	HPE Aruba Networking AP-735 (US) Tri-radio 2x2:2 802.11be Wi-Fi 7 Internal Antennas Campus AP
S5E15A	HPE Aruba Networking AP-735 (ID) Tri Radio 2x2 802.11be Wi-Fi 7 Internal Antennas Campus AP
Internal antenna access points — eco-friendly 5-packs	
S0H12A	HPE Aruba Networking AP-735 (RW) Tri-radio 2x2 Wi-Fi 7 Internal Antennas 5-Pack Campus AP
S0H13A	HPE Aruba Networking AP-735 (US) Tri-radio 2x2 Wi-Fi 7 Internal Antennas 5-Pack Campus AP
External antenna access points	
S1G32A	HPE Aruba Networking AP-734 (RW) Tri Radio 2x2 Wi-Fi 7 External Antennas Campus Access Point
S1G33A	HPE Aruba Networking AP-734 (US) Tri Radio 2x2 Wi-Fi 7 External Antennas Campus Access Point
S1G29A	HPE Aruba Networking AP-734 (EG) Tri Radio 2x2 Wi-Fi 7 External Antennas Campus Access Point
S1G30A	HPE Aruba Networking AP-734 (IL) Tri Radio 2x2 Wi-Fi 7 External Antennas Campus Access Point
Internal antenna access points — TAA models	
S1G44A	HPE Aruba Networking AP-735 (EG) TAA Tri-radio 2x2:2 802.11be Wi-Fi 7 Internal Antennas Campus AP
S1G45A	HPE Aruba Networking AP-735 (IL) TAA Tri-radio 2x2:2 802.11be Wi-Fi 7 Internal Antennas Campus AP
S1G46A	HPE Aruba Networking AP-735 (JP) TAA Tri-radio 2x2:2 802.11be Wi-Fi 7 Internal Antennas Campus AP
S1G47A	HPE Aruba Networking AP-735 (RW) TAA Tri-radio 2x2:2 802.11be Wi-Fi 7 Internal Antennas Campus AP
S1G48A	HPE Aruba Networking AP-735 (US) TAA Tri-radio 2x2:2 802.11be Wi-Fi 7 Internal Antennas Campus AP

Table 4. Ordering information (continued)

Part number	Description
External antenna access points — TAA models	
S1G34A	HPE Aruba Networking AP-734 (EG) Tri Radio 2x2 Wi-Fi 7 External Antennas TAA Campus Access Point
S1G35A	HPE Aruba Networking AP-734 (IL) Tri Radio 2x2 Wi-Fi 7 External Antennas TAA Campus Access Point
S1G37A	HPE Aruba Networking AP-734 (RW) Tri Radio 2x2 Wi-Fi 7 External Antennas TAA Campus Access Point
S1G38A	HPE Aruba Networking AP-734 (US) Tri Radio 2x2 Wi-Fi 7 External Antennas TAA Campus Access Point

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