

HPE Aruba Networking CX 8325 Switch Series

High performance enterprise campus and data center switch



Key features

- High performance 6.4Tbps with 2,000 Mpps
- High availability with industry-leading VSX redundancy, and redundant power supplies and fans
- Designed for core/aggregation in the campus or Top of Rack or End of Row in the data center
- HPE Aruba Networking CX Operating System automation and programmability using built-in REST APIs and Python scripts
- Advanced Layer 2/3 feature set includes BGP, OSPF, VRF-Lite, and IPv6
- Dynamic VXLAN with BGP-EVPN for deep segmentation in data center and campus networks
- Intelligent monitoring, visibility, and remediation with HPE Aruba Networking Network Analytics Engine

Product overview

The HPE Aruba Networking CX 8325 Switch Series offers a flexible and innovative approach to addressing the application, security, and scalability demands of the mobile, cloud and IoT era. These switches serve the needs of the next generation core and aggregation layer, as well as emerging data center requirements at the Top of Rack (ToR) and End of Row (EoR). They provide up to 6.4Tbps of capacity, with line-rate Gigabit Ethernet interfaces including 1Gbps, 10Gbps, 25Gbps, 40Gbps, and 100Gbps.

The 8325 series includes industry-leading line rate ports 1/10/25GbE (SFP/SFP+/SFP28) and 40/100GbE (QSFP+/QSFP28) with connectivity in a compact 1U form factor. These switches offer a fantastic investment for customers wanting to migrate from older 1GbE/10GbE to faster 25GbE, or 10GbE/40GbE to 100GbE ports.

Product Differentiators

HPE Aruba Networking CX Operating System—a modern software system

The HPE Aruba Networking CX 8325 Switch Series is based on HPE Aruba Networking CX Operating System, a modern, database—driven operating system that automates and simplifies many critical and complex network tasks.

A built-in time series database enables customers and developers to utilize software scripts for historical troubleshooting, as well as analysis of past trends. This helps predict and avoid future problems due to scale, security, and performance bottlenecks. HPE Aruba Networking CX Operating System operating system features are organized into HPE Aruba Networking CX Foundation and HPE Aruba Networking CX Advanced software licenses.

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

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

Key features

- HPE Aruba Networking Storage Optimized with validated Ethernet Storage Fabric solutions with HPE Storage and HCI solutions
- HPE Aruba Networking NetEdit support for automated configuration and verification
- Compact 1U switch with 1/10/25GbE and 40/100GbE connectivity

In addition to the native features available in AOS-CX, we offer an optional, term-based HPE Aruba Networking CX Advanced Feature Pack that unlocks container infrastructure that can host HPE certified applications for flexible and reliable IT services.

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

Because HPE Aruba Networking CX Operating System is built on a modular Linux architecture with a stateful database, our operating system provides the following unique capabilities:

- Easy access to all network state information allows unique visibility and analytics
- REST APIs and Python scripting for fine grained programmability of network tasks
- A micro-services architecture that enables full integration with other workflow systems and services
- Continual state synchronization that provides superior fault tolerance and high availability
- Supports HPE Aruba Networking Fabric Composer—a software-defined orchestration solution that simplifies and accelerates leaf-spine network provisioning and day-to-day operations across rack-scale compute and storage infrastructure
- All software processes communicate with the database rather than each other, ensuring near real-time state and resiliency and allowing individual software modules to be independently upgraded for higher availability

HPE Aruba Networking Central, Cloud-based network management

Flexible cloud-based or on-premises management for unified network operations of wired, WLAN, SD-WAN, and public cloud infrastructure. Designed to simplify day zero through day two operations with streamlined workflows. Switch management capabilities include configuration, onboarding, monitoring, troubleshooting, and reporting.

An HPE Aruba Networking Central Advanced license expands these capabilities with premium security and AIOps, including the HPE Aruba Networking Central NetConductor Fabric Wizard and Policy Manager to enable dynamic segmentation and distributed enforcement at a global scale.

Additionally, a HPE Aruba Networking Central Advanced subscription enables the CX Advanced Feature Pack so there is no need to separately purchase a CX Advanced Feature Pack. This streamlines operational efficiency, reducing the need for your IT team to keep track of multiple subscriptions, active terms, and renewal dates. For more information on HPE Aruba Networking Central subscriptions, see the [HPE Aruba Networking Central SaaS Subscription Ordering Guide](#).

HPE Aruba Networking Network Analytics Engine

For enhanced visibility and troubleshooting, HPE Aruba Networking Network Analytics Engine (NAE) automatically interrogates and analyzes events that can impact a network's health. Advanced telemetry and automation provide the ability to easily identify and troubleshoot network, system, application and security related issues easily, through the use of python agents, CLI-based agents and REST APIs.

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

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

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



Capabilities include:

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

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

Ethernet storage optimized, validated

HPE Aruba Networking CX 8325 provides an ideal solution for data center, cloud and storage use cases that support top-of-rack server and storage connectivity and scale-out leaf-spine fabrics. HPE Aruba Networking CX Operating System adds storage-optimization enhancements to insure the low-latency, lossless network QOS and connectivity characteristics that storage requires.

The CX 8325 is SPOCK (Single Point of Connectivity Knowledge) validated as part of HPE's comprehensive portfolio of servers and storage arrays, which ensure end-to-end solution interoperability validated by HPE Labs. This validation takes guesswork out of SAN design, configuration, deployment, and management—helping to speed deployment and reduce risk/expertise needed to deploy complex solutions.

HPE Aruba Networking Virtual Switching Extension

The ability of HPE Aruba Networking CX Operating System to maintain synchronous state across dual control planes allows a unique high availability solution called HPE Aruba Networking Virtual Switching Extension (VSX). VSX is delivered through redundancy gained by deploying two chassis with an inter-switch link, with each chassis maintaining its independent control.

Designed using the best features of existing HA technologies such as Multi-chassis Link Aggregation (MC-LAG) and Virtual Switching Framework (VSF), VSX or HPE Aruba Networking Virtual Switching Extension (VSX) enables a distributed architecture that is highly available during upgrades or control plane events. Features include:

- Continuous configuration synchronization via the CX Operating System
- Flexible active-active network designs at Layers 2 and 3
- Operational simplicity and usability for easy configuration

- High availability by design during upgrades including support for VSX Live Upgrade with LACP traffic draining

Product capabilities**Performance****Performance high-speed fully distributed architecture**

- Provides 6.4Tbps for bidirectional switching and 2,000 Mpps for forwarding. All switching and routing are wire-speed to meet the demands of bandwidth-intensive applications today and in the future

Scalable system design

- Provides investment protection to support future technologies and higher-speed connectivity

Connectivity**High density port options**

Choice of compact high density port 1U switches with airflow direction flexibility include model with:

- 32 ports of 40GbE/100GbE (QSFP+/QSFP28) [optional 4x10 and 4x25 breakout]
- 48 ports of 1GbE/10GbE/25GbE (SFP/SFP+/SFP28) [1GBASE-T and 10GBASE-T transceiver support]+8 ports of 40GbE/100GbE (QSFP+/QSFP28) [optional 4x10 and 4x25 breakout]

Jumbo frames

- Allows high-performance backups and disaster-recovery systems; provides a maximum frame size of 9,198 bytes

Unsupported Transceiver Mode (UTM)

- Allows to insert and enable all unsupported 1G and 10G transceiver and cable
- No warranty nor support for the transceiver/cable when used

Loopback

- 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

Packet storm protection

- Protects against unknown broadcast, multicast, or unicast storms with user-defined thresholds

Quality of Service (QoS)**Strict priority (SP) queuing and Deficit Weighted Round Robin (DWRR)**

- Enable congestion avoidance

Data Center Bridging (DCB)

Supports lossless Ethernet networking standards to eliminate packet loss due to queue overflow



- Priority Flow Control (PFC) 7 priorities per port
- Enhanced Transmission Service (ETS)
- DCB Exchange Protocol (Pre-standard LLDP DCBX IEEE 1.01 version)

Flow-control guard

Prevents accumulation of excessive congestion with periodic flushing. Avoids packets buffering for an extended time period.

ECN with slope

Marks packets as ECN-CE (Congestion Experienced). Helps TCP to reduce receive window size during congestion.

Advanced lossless pool configuration

Dynamic pool configuration

Enables lossless pool configuration without switch reboot.

Global buffering statistics

Storage Solution Support

iSCSI, Lossless iSCSI, RDMA over Converged Ethernet version 2 (RoCE v1 and v2) and Non-Volatile Memory Express (NVMe over Fabrics).

Resiliency and high availability

Redundant and load-sharing fans and power supplies

- Increases total performance and power availability while providing hitless, stateful failover

Hot swappable power supply and fan modules

- Allows replacement of accessories modules without any operational impact on other modules nor the switch operations

Separate data and control paths

- Separates control from services and keeps service processing isolated; increases security and performance

HPE Aruba Networking Virtual Switching Extension (VSX)

- VSX enables a distributed and redundant architecture by deploying two switches with each switch maintaining independent control yet staying synchronized during upgrades or failover. Also supports upgrades during live operation

Virtual Router Redundancy Protocol (VRRP)

- VRRP allows a group of switches to dynamically back each other up to create highly available routed environments
- It also supports route-leaking to/from default VRF

Bidirectional Forward Detection (BFD)

- Enable sub-second failure detection for rapid routing protocol re-balancing

Ethernet Ring Protection Switching (ERPS)

- Supports rapid protection and recovery in a ring topology

Unidirectional Link Detection (UDLD)

- Monitors link connectivity and shuts down ports at both ends if unidirectional traffic is detected, preventing loops in STP-based networks

IEEE 802.3ad LACP

- Supports up to 54 LAGs, with up to 16 members per LAG (32 for a VSX pair), with a user-selectable L1- 4 hashing algorithm

LACP-fallback

Enables Zero Touch Provisioning over Link Aggregation Groups.

Management

In addition to the HPE Aruba Networking CX Mobile App, HPE Aruba Networking Switch Multi-Edit Software and HPE Aruba Networking Network Analytics Engine, the 8325 series offers the following:

Built-in programmable and easy to use

REST API interface.

Management interface control

- Enables or disables each of the following interfaces depending on security preferences: console port, or reset button

Industry-standard CLI with a hierarchical structure

- Reduces training time and expenses, and increases productivity in multivendor installations

Management security

- Restricts access to critical configuration commands; offers multiple privilege levels with password protection; ACLs provide SNMP access; local and remote Syslog capabilities allow logging of all access
- 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



IP SLA

- Monitors the network for degradation of various services, including voice
- Monitoring is enabled via the NAE for history and for immediate automated gathering of additional information when anomalies are detected

SNMP v2c/v3

- Provides SNMP read and trap support of industry standard Management Information Base (MIB), and private extensions
- Supports STP TCN Trap, STP New Root and SNMP-Write-Set-Description on Interface

sFlow® (RFC 3176)

- Provides scalable ASIC-based wire speed network monitoring and accounting with no impact on network performance; this allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes

Remote monitoring (RMON)

- Uses standard SNMP to monitor essential network functions and supports events, alarms, history, and statistics groups as well as a private alarm extension group

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
- Can serve as the NTP server in a customer network

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

Multiple configuration files

- Stores files easily to the flash image

Layer 2 switching**VLAN**

- Supports up to 4,040 port-based or IEEE 802.1Q-based VLANs

VLAN translation

- Remaps VLANs during transit across a core network

Bridge Protocol Data Unit (BPDU) tunneling

- Transmits STP BPDUs transparently, allowing correct tree calculations across service providers, WANs, or MANs

Port mirroring

- Duplicates port traffic (ingress and egress) to a local or remote monitoring port; supports 4 mirroring groups, with an unlimited number of ports per group

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)

Rapid Per-VLAN spanning tree plus (RPVST+)

- Allows each VLAN to build a separate spanning tree to improve link bandwidth usage in network environments with multiple VLANs

Internet Group Management Protocol (IGMP)

- Controls and manages the flooding of multicast packets in a Layer 2 network

Static VXLAN

- Allows operators to manually connect two or more VXLAN tunnel endpoints (VTEP)

Dynamic VXLAN with BGP-EVPN

- Deep segmentation for Spine/Leaf data center networks or Layer 3 campus designs with centralized gateway and symmetric Integrated Routing and Bridging (IRB) based distributed gateways VXLAN tunnels
- EVPN and VXLAN features include inbound and outbound route map support, matching L3VNI matching, local-preference setting, ip next-hop, as-path prepend, ip/ipv6 address prefix-list matching
- VXLAN DC multi-fabric DCI support

Multicast

- PIM Multicast Boundary (v4)
- VSX Graceful shutdown for IGMP/MLD
- Multicast NSF



IPv4 Multicast in VXLAN/EVPN overlay

- Enable PIM-SM/IGMP snooping in the VXLAN Overlay

IPv6 VXLAN/EVPN overlay support

- Enables IPv6 traffic over the VXLAN overlay

VXLAN distributed anycast gateway

- Addressing mechanism that enables the use of the same gateway IP addresses across all the leaf switches part of a VXLAN network
- Supports VSX active forwarding for VXLAN underlay

VXLAN ARP/ND suppression

- Allows minimization of ARP and ND traffic flooding within individual VXLAN segments, thus optimizing the VXLAN network

Layer 3 services**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

IP directed broadcast

- Supports directed broadcast on configured network subnets

Dynamic Host Configuration Protocol (DHCP)

- DHCP services are offered within a client network to simplify network management
- DHCP Relay enables DHCP operation across subnets

DHCP server

- Supports DHCP Smart Relay services (for IPv4 and IPv6) in customer networks
- DHCP relay coexistence with server
- Allows DHCP relay coexistence with DHCP server for both IPv4 and IPv6

Domain Name System (DNS)

- Provides a distributed database that translates domain names and IP addresses, which simplifies network design; supports client and server
- Supports mDNS Gateway

Generic Routing Encapsulation (GRE)

- Enables tunneling traffic from site to site over a Layer 3 path

Layer 3 routing**Static IPv4 routing**

- Provides simple manually configured IPv4 routing

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
- Enhanced features include configurable OSPF distance for type-5 LSA and configurable default-metric for OSPF default-information guide

Loopback IP redistribution in OSPF

- Allows redistribution of IPv4 and IPv6 addresses of loopback interface in OSPFv2/v3

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
- Dynamic BGP peering-Simplifies BGP configuration for ZTP scenarios and enables CX for Azure stack integration

Routing Information Protocol version 2 (RIPv2)

- Easy to configure routing protocol for small networks relying on User Datagram Protocol (UDP)

Routing Information Protocol next generation (RIPng)

- Extension of RIPv2 for support of IPv6 networking

Multiprotocol BGP (MP-BGP) with IPv6 address family

- Enables sharing of IPv6 routes using BGP and connections to BGP peers using IPv6

Policy Based Routing (PBR)

- Enables using a classifier to select traffic that can be forwarded based on policy set by the network administrator

6in4 tunnels

- Supports the tunneling of IPv6 traffic in an IPv4 network

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
- **IP sub-interface**-Enables IP sub-interface for ingress & egress ACL/Policies, routing, VSX-keep alive
- **Secure port access**-802.1x, Mac-auth, LUR, DUR, Port-Access Policy, Static Port Filtering

Static IPv6 routing

- Provides simple manually configured IPv6 routing



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

OSPFv3

- Provides OSPF support for IPv6

Equal-Cost Multipath (ECMP)

- Enables multiple equal-cost links in a routing environment to increase link redundancy and scale bandwidth

Generic Routing Encapsulation (GRE)

- Enables tunneling traffic from site to site over a Layer 3 path

Security**TAA compliance**

- The HPE Aruba Networking CX 8325 with HPE Aruba Networking CX Operating System, a TAA compliant product, uses FIPS 140-2 validated cryptography for protection of sensitive information

Access control list (ACL) features

- Supports powerful ACLs for both IPv4 and IPv6. Supports creation of object groups representing sets of devices like IP addresses. For instance, IT management devices could be grouped in this way
- ACLs can also protect control plane services such as SSH, SNMP, NTP or web servers

Enrollment over Secure Transport (EST)

- Enables secure certificate enrollment, allowing for easier enterprise management of PKI

Remote Authentication Dial-In User Service (RADIUS)

- Eases security access administration by using a password authentication server

Terminal Access Controller Access-Control System (TACACS+)

- Delivers an authentication tool using TCP with encryption of the full authentication request, providing additional security

RadSec

- Enable RADIUS authentication and accounting data to be passed safely and reliably across insecure networks such as the internet

Management access security

- HPE Aruba Networking CX Operating System provides for both on-box as well as off-box authentication for administrative access. RADIUS or TACACS+ can be used to provide encrypted user authentication

- Additionally, TACACS+ can also provide user authorization services

Secure shell (SSHv2)

- Uses external servers to securely log in to a remote device; with authentication and encryption, it protects against IP spoofing and plain-text password interception; increases the security of Secure FTP (SFTP) transfers

Multicast**Internet Group Management Protocol (IGMP)**

- Enables establishing multicast group memberships in IPv4 networks; supports IGMPv1, v2, and v3

Multicast Listener Discovery (MLD)

- Enable discovery of IPv6 multicast listeners; supports MLDv, v2

Multicast Service Delivery Protocol (MSDP) for Anycast RP

- MSDP used for Anycast RP is an intradomain feature that provides redundancy and load-sharing capabilities

MSDP Mesh Groups

- Allows to avoid SA messages flood to other mesh group peers

PIM-Dense Mode

- Floods multicast traffic to every corner of the network (push-model). Method is for delivering data to receivers without receivers requesting the data. Can be efficient in certain deployments in which there are active receivers on every subnet in the network. Branches without downstream receivers are pruned from the forwarding trees

Fast-Leave (FL) and Forced Fast-Leave (FFL)

- FL and FFL for IGMP/MLD speed up the process of blocking unnecessary multicast traffic to a switch port that is connected to end nodes for IGMP. They help to eliminate the CPU overhead of having to generate an IGMP/MLD Group-Specific Query message

Microsoft Network Load Balancer (NLB)

- Support for server applications



Protocol Independent Multicast (PIM)

- Protocol Independent Multicast for IPv4 and IPv6 supports one-to-many and many-to-many media casting use cases such as IPTV over IPv4 and IPv6 networks. Support for PIM Sparse Mode (PIM-SM, IPv4, IPv6), Source-Specific Multicast (SSM), and Dense Mode (DM)

Additional information

- Green initiative support
- Provides support for RoHS (EN 50581:2012) regulations

Korea government security features

- Ensure configuration integrity
- Limit concurrent users for web access
- Platforms: All CX platforms

Analytics

- AIOPS-NAE Agent & Engine Improvements-Unicast Routing
- AIOPS-NAE Agent & Engine Improvements-Client Services

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.

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

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

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

**Warranty, services and support
Limited Lifetime Warranty**

- See arubanetworks.com/support-services/productwarranties/ for warranty and support information included with your product purchase

Please reference the below web pages for more detailed information HPE Aruba Networking CX Operating System software releases and features.

[HPE Aruba Networking CX Operating System Switch Software Documentation Portal](https://arubanetworks.com/software-documentation-portal/)

[HPE Aruba Networking Switch Feature Navigator](https://arubanetworks.com/switch-feature-navigator/)

For **support and services** information, visit arubanetworks.com/support-services/arubacare/



Specifications

	JL624A 8325-48Y8C front-to-back switch bundle	JL625A 8325-48Y8C back-to-front switch bundle	JL626A 8325-32C front-to-back switch bundle	JL627A 8325-32C back-to-front switch bundle
Description	1 x JL635A base 8325-48Y8C switch • 6 x JL628A Front-to-Back Fan • 2 x JL632A Front-to-Back 650W 100-240VAC Power Supply	1 x JL635A base 8325-48Y8C switch • 6 x JL629A Back-to-Front Fan • 2 x JL633A Back-to-Front 650W 100-240VAC Power Supply	1 x JL636A base 8325-32C switch • 6 x JL630A Front-to-Back Fan • 2 x JL632A Front-to-Back 650W 100-240VAC Power Supply	1 x JL636A base 8325-32C switch • 6 x JL631A Back-to-Front Fan • 2 x JL633A Back-to-Front 650W 100-240VAC Power Supply
	Supports 48 ports of 1G/10G/25GbE (SFP/SFP+/SFP28) and 8 ports of 40G/100GbE (QSFP+/QSFP28) [optional 1GBASE-T and 10GBASE-T transceivers, 4x10G and 4x25G breakout cables]	Supports 48 ports of 1G/10G/25GbE (SFP/SFP+/SFP28) and 8 ports of 40G/100GbE (QSFP+/QSFP28) [optional 1GBASE-T and 10GBASE-T transceivers, 4x10G and 4x25G breakout cables]	Supports 32 ports of 40G/100GbE (QSFP+/QSFP28) [optional 4x10G and 4x25G breakout cables]	Supports 32 ports of 40G/100GbE (QSFP+/QSFP28) [optional 4x10G and 4x25G breakout cables]
Power supplies	Field-replaceable, hot-swappable, and up to 2 power supplies.			
Fans	Field-replaceable, hot-swappable, and up to 6 fans.			
Physical characteristics				
Dimensions	(H) 4.35 cm x (W) 43.84 cm x (D) 53.6 cm (1.71" x 17.26" x 21.1")	(H) 4.35 cm x (W) 43.84 cm x (D) 53.6 cm (1.71" x 17.26" x 21.1")	(H) 4.395 cm x (W) 44.25 cm x (D) 47.3 cm (1.73" x 17.42" x 18.62")	(H) 4.395 cm x (W) 44.25 cm x (D) 47.3 cm (1.73" x 17.42" x 18.62")
Full configuration weight	10 kg (22.05 lb)	10 kg (22.05 lb)	10.87 kg (23.96 lb)	10.87 kg (23.96 lb)
Additional specifications				
CPU	2.2 GHz			
Memory, drive and flash	16 GB RAM, 64 GB SSD, 8 GB flash			
Packet buffer	32 MB			
Performance*				
Switching capacity 6.4Tbps	6.4 Tbps			
IPv4 Host table 120,000	120,000			
IPv6 Host table 52,000	52,000			
IPv4 Unicast routes	131,072			



Specifications

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Performance*				
IPv6 Unicast routes			32,732	
MAC table size			98,304	
IGMP groups			4,094	
MLD groups			4,094	
IPv4 multicast routes			7,000	
IPv6 multicast routes			7,000	

*Some of these scaling numbers assume shared tables.

Specifications

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Environment				
Operating temperature	0°C to 40°C (32°F to 104°F) up to 3.0 km (10,000 ft)			
Operating relative humidity	5% to 95% at 40°C (104°F) non-condensing			
Non-operating	-40°C to 70°C (-40°F to 158°F) up to 4.6 km (15,000 ft)			
Non-operating/ Storage relative humidity	5% to 95% @ 65°C (149°F)			
Max operating altitude	Up to 10,000ft (3.048 km)			
Max non-operating	Up to 15,000ft (4.6km)			
Primary airflow	Front-to-back or back-to-front			
Electrical characteristics				
Power supplies	50-60Hz			
AC voltage	100-240 VAC			
Current	6.2A (low voltage)–3.1A (high voltage)			
Power consumption*	Max: 586 W, 2000 BTU/hr Idle: 209 W, 714 BTU/hr	Max: 586 W, 2000 BTU/hr Idle: 209 W, 714 BTU/hr	Max: 618 W, 2110 BTU/hr Idle: 143 W, 489 BTU/hr	Max: 618 W, 2110 BTU/hr Idle: 143 W, 489 BTU/hr



Specifications

	JL624A 8325-48Y8C front-to-back switch bundle	JL625A 8325-48Y8C back-to-front switch bundle	JL626A 8325-32C front-to-back switch bundle	JL627A 8325-32C back-to-front switch bundle
8325 DC power bundle options				
Electric characteristics	JL857A 8325-48Y8C Front-to-Back DC Switch Bundle	JL858A 8325-48Y8C Backto-Front DC Switch Bundle	JL859A 8325-32C Front-to-Back DC Switch Bundle	JL860A 8325-32C Back-to-Front DC Switch Bundle
DC input (nominal)	-48VDC			
DC input (max range)	-36VDC to -72VDC			
Maximum current	14.3 A	15.3 A	15.1 A	16.4 A
Power consumption*	Max: 520 W, 1777 BTU/hr Idle: 198 W, 674 BTU/hr	Max: 520 W, 1777 BTU/hr Idle: 198 W, 674 BTU/hr	Max: 558 W, 1907 BTU/hr Idle: 135 W, 462 BTU/hr	Max: 558 W, 1907 BTU/hr Idle: 135 W, 462 BTU/hr
Safety				
EN/IEC 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 EN/IEC 62368-1, 2nd. Ed. UL 62368-1, 2nd. Ed. CAN/CSA C22.2 No. 62368-1, 2nd. Ed.				
EMC				
EN 55032:2015/CISPR 32, Class A FCC CFR 47 Part 15: 2018 Class A ICES-003 Class A VCCI Class A CNS 13438 Class A KS C 9832 Class A AS/NZS CISPR 32 Class A EN 55035, CISPR 35, KS KS C 9835				

* Power Consumption measured in 40°C thermal chamber considers all supported input voltages specified for each product. Idle measurement is collected with no network traffic or modules, Max measurement is collected under 100% line rate with all network ports populated under worst case power conditions



Specifications

JL624A 8325-48Y8C
front-to-back
switch bundle

JL625A 8325-48Y8C
back-to-front
switch bundle

JL626A 8325-32C
front-to-back
switch bundle

JL627A 8325-32C
back-to-front
switch bundle

NEBS

SR-3580, Level 3, NEBS Criteria Levels
 GR-1089-CORE, EMC & Electrical Safety
 GR-63-CORE, Physical Protections
 ETSI EN 300 386, Class A, EMC
 ETSI EN 300 019-2-1, Class 1.2, Storage
 ETSI EN 300 019-2-2, Class 2.3, Transportation
 ETSI EN 300 019-2-3, Class 3.1 & 3.1E, Stationary Use at Weather Protected Locations ETSI 300 132, Power Supply Interface to Telecom Equipment, -48VDC
 ETSI ETS 300 753, Acoustic Noise

Lasers

EN60825-1:2014/IEC 60825-1: 2014 Class 1 Class
 1 Laser Products/Laser Klasse 1

Management

SNMP
 RJ-45 serial
 USB micro USB console
 RJ-45 Ethernet port

Mounting and enclosure

Mounts in an EIA standard 19-inch rack or other equipment cabinet; horizontal surface mounting only; order 2-post or 4-post mounting kit separately

Standards and protocols

The following standards and protocols are supported.

- IEEE 802.1AB-2009
- IEEE 802.1ak-2007
- IEEE 802.1t-2001
- IEEE 802.1AX-2008 Link Aggregation
- IEEE 802.1p Traffic Class Expediting and Dynamic Multicast Filtering
- IEEE 802.1Q VLANs
- IEEE 802.1s Multiple Spanning Trees
- IEEE 802.1w Rapid Reconfiguration of Spanning Tree
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- IEEE 802.3x Flow Control
- IEEE 802.3z Gigabit Ethernet
- IEEE 802.3ae 10 Gigabit Ethernet
- IEEE 802.3by 25 Gigabit Ethernet
- IEEE 802.3ba 40 and 100 Gigabit Ethernet Architecture
- RFC 768 UDP
- RFC 791 IP
- RFC 792 ICMP
- RFC 793 TCP
- RFC 826 ARP
- RFC 768 User Datagram Protocol
- RFC 813 Window and Acknowledgement Strategy in TCP
- RFC 815 IP datagram reassembly algorithms
- 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 1215 Convention for the defining traps for use with SNMP
- RFC 1256 ICMP Router Discovery Messages
- RFC 1393 Traceroute Using an IP Option
- RFC 1591 Domain Name System Structure and Delegation
- RFC 1657 Definitions of Managed Objects for BGP-4 using SMIPv2
- RFC 1772 Application of the Border Gateway Protocol in the Internet
- RFC 1981 Path MTU Discovery for IP version 6



- RFC 1997 BGP Communities Attribute
- RFC 1998 An Application of the BGP Community Attribute in Multi-home Routing
- 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 2406 IP Encapsulating Security Payload (ESP)
- RFC 2460 Internet Protocol, Version 6 (IPv6) Specification
- RFC 2545 Use of BGP-4 Multiprotocol Extensions for IPv6 Inter- Domain Routing
- RFC 2710 Multicast Listener Discovery (MLD) for IPv6
- RFC 2787 Definitions of Managed Objects for the Virtual Router Redundancy Protocol
- RFC 2918 Route Refresh Capability for BGP-4
- RFC 2934 Protocol Independent Multicast MIB for IPv4
- RFC 3137 OSPF Stub Router Advertisement
- RFC 3176 InMon Corporation's sFlow: A Method for Monitoring Traffic in Switched and Routed Networks
- RFC 3484: Default Address Selection for Internet Protocol version 6 (IPv6)
- RFC 3509 Alternative Implementations of OSPF Area Border Routers
- RFC 3623 Graceful OSPF Restart
- RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6
- RFC 4213 Basic Transition Mechanisms for IPv6 Hosts and Routers
- RFC 4251 The Secure Shell (SSH) Protocol
- 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 4486 Subcodes for BGP Cease Notification Message
- RFC 4552 Authentication/Confidentiality for OSPFv3
- RFC 4724 Graceful Restart Mechanism for BGP
- RFC 4760 Multiprotocol Extensions for BGP-4
- RFC 4940 IANA Considerations for OSPF
- RFC 5095: Deprecation of Type 0 Routing Headers in IPv6
- RFC 5187 OSPFv3 Graceful Restart
- RFC 5701 IPv6 Address Specific BGP Extended Community Attribute
- RFC 6987 OSPF Stub Router Advertisement
- RFC 7047 The Open vSwitch Database Management Protocol
- RFC 7059 A Comparison of IPv6-over-IPv4 Tunnel Mechanisms
- RFC 7313 Enhanced Route Refresh Capability for BGP-4
- RFC 8201 Path MTU Discovery for IP version 6

Bundles and accessories

HPE Aruba Networking CX 8325 Bundles

Note: Mounting kit and console cable are not included in bundles.

Order separately. Mounting kit is required.

- 8325-48Y8C Bundle includes: 48 x 25Gb ports (SFP+/28), 8 x 100Gb ports (QSFP+/28), 6 Front-to-Back Fans and 2 PSU's (JL624A)
- 8325-48Y8C Bundle includes: 48 x 25Gb ports (SFP+/28), 8 x 100Gb ports (QSFP+/28), 6 Back-to-Front Fans and 2 PSU's (JL625A)
- 8325-32C Bundle includes: 32 x 100Gb ports (QSFP+/QSFP28), 6 Front-to-Back Fans and 2 PSU's (JL626A)
- 8325-32C Bundle includes: 32 x 100Gb ports (QSFP+/QSFP28), 6 Back-to-Front Fans, and 2 PSU's (JL627A)

DC Bundle Options

- 8325-48Y8C 48-port 25G SFP/SFP+/SFP28 8-port 100G QSFP+/QSFP28 Front-to-Back 6 Fans 2 DC Bdl (JL857A)
- 8325-48Y8C 48-port 25G SFP/SFP+/SFP28 8-port 100G QSFP+/QSFP28 Back-to-Front 6 Fans 2 DC Bdl (JL858A)
- 8325-32C 32-port 100G QSFP+/QSFP28 Front-to-Back 6 Fans and 2 DC Bundle (JL859A)
- 8325-32C 32-port 100G QSFP+/QSFP28 Back-to-Front 6 Fans and 2 DC Bundle (JL860A)

Mounting Kit (required when ordering a bundle)

- 2-post Rack Kit (JL482C)
- 4-post Rack Kit (JL483C)



HPE Aruba Networking Console Cable

- HPE Aruba Networking USB-A-RJ45 PIN3TX-6RX Cable (R8Z87A)
- HPE ANW USB-A to RJ45 PC-to-Switch Cable (R9G48B)
- 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 accessories

- 8325-48Y8C Front-to-Back Fan (JL628A)
- 8325-48Y8C Back-to-Front Fan (JL629A)
- 8325-32C Back-to-Front Fan (JL631A)
- CX Switch Bluetooth Adapter (S1H23A)

HPE Aruba Networking Power Supply

- 8325 650W 100-240VAC Front-to-Back Power Supply (JL632A)
- 8325 650W 100-240VAC Back-to-Front Power Supply (JL633A)
- 8325 850W 48VDC Front-to-Back Power Supply (JL861A)
- 8325 850W 48VDC Back-to-Front Power Supply (JL862A)

HPE Aruba Networking spares switches (base unit switches, do not include power supplies, fans or BTO)

- 8325-48Y8C 48-port 25G SFP/SFP+/SFP28 and 8-port 100G QSFP+/QSFP28 Switch (JL635A)
- 8325-32C 32-port 100G QSFP+/QSFP28 Switch (JL636A)

HPE Aruba Networking 1G Transceivers¹

- 1G SFP LC SX 500m MMF Transceiver (J4858D)
- 1G SFP LC LX 10km SMF Transceiver (J4859D)
- 1G SFP LC LH 70km SMF Transceiver (J4860D)
- 1G SFP RJ45 T 100m Cat5e Transceiver (J8177D)⁴

10G Transceivers¹ and Cables

- HPE Aruba Networking 10G SFP+ LC SR 300m MMF Transceiver (J9150D)
- HPE Aruba Networking 10G SFP+ LC LR 10km SMF Transceiver (J9151E)²
- HPE Aruba Networking 10G SFP+ LC ER 40km SMF Transceiver (J9153D)
- HPE Aruba Networking 10GBASE-T SFP+ RJ-45 30m Cat6A Transceiver (JL563B)³

- 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 (Compute) BLc 10G SFP+ SFP+ 3m DAC Cable (487655-B21)
- HPE (Compute) BLc 10G SFP+ SFP+ 5m DAC Cable (537963-B21)

25G Transceivers¹ and Cables

- HPE Aruba Networking 25G SFP28 LC SR 100m MMF Transceiver (JL484A)
- HPE Aruba Networking 25G SFP28 LC eSR 400m MMF Transceiver (JL485A)
- HPE Aruba Networking 25G SFP28 LC LR 10km SMF Transceiver (JL486A)
- 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 25G SFP28 to SFP28 3m Active Optical Cable (ROM44A)
- HPE Aruba Networking 25G SFP28 to SFP28 7m Active Optical Cable (ROM45A)
- HPE Aruba Networking 25G SFP28 to SFP28 15m Active Optical Cable (ROZ21A)
- HPE (Compute) 25Gb SFP28 to SFP28 3m DAC (844477-B21)
- HPE (Compute) 25Gb SFP28 to SFP28 5m DAC (844480-B21)

25G Transceivers¹ and Cables

- HPE Aruba Networking 25G SFP28 LC SR 100m MMF Transceiver (JL484A)
- HPE Aruba Networking 25G SFP28 LC eSR 400m MMF Transceiver (JL485A)
- HPE Aruba Networking 25G SFP28 LC LR 10km SMF Transceiver (JL486A)
- 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 25G SFP28 to SFP28 3m Active Optical Cable (ROM44A)
- HPE Aruba Networking 25G SFP28 to SFP28 7m Active Optical Cable (ROM45A)
- HPE Aruba Networking 25G SFP28 to SFP28 15m Active Optical Cable (ROZ21A)
- HPE (Compute) 25Gb SFP28 to SFP28 3m DAC (844477-B21)
- HPE (Compute) 25Gb SFP28 to SFP28 5m DAC (844480-B21)

40G Transceivers¹ and Cables

- HPE Aruba Networking 40G QSFP+ LC BiDi 150m MMF Transceiver (JL308A)
- HPE X142 40G QSFP+ MPO SR4 Transceiver (JH231A)
- HPE X142 40G QSFP+ MPO eSR4 300M Transceiver (JH233A)
- HPE X142 40G QSFP+ LC LR4 SM Transceiver (JH232A)
- HPE Aruba Networking 40G QSFP+ LC ER4 40km SMF Transceiver (Q9G82A)
- HPE X242 40G QSFP+ to QSFP+ 1m Direct Attach Copper Cable (JH234A)
- HPE X242 40G QSFP+ to QSFP+ 3m Direct Attach Copper Cable (JH235A)
- HPE X242 40G QSFP+ to QSFP+ 5m Direct Attach Copper Cable (JH236A)
- HPE Aruba Networking 40G QSFP+ to QSFP+ 7m Active Optical Cable (ROZ22A)
- HPE Aruba Networking 40G QSFP+ to QSFP+ 15m Active Optical Cable (ROZ23A)
- HPE Aruba Networking 40G QSFP+ to QSFP+ 30m Active Optical Cable (ROZ24A)
- HPE HIT QSFP+ to 4xSFP+3m Breakout Direct Attach Cable (721064-B21)
- HPE (Compute) BLc QSFP+ to 4x10G SFP+AOC 15m Opt (721076-B21)

100G Transceivers¹ and Cables

- HPE Aruba Networking 100G QSFP28 MPO SR4 MMF Transceiver (JL309A)
- HPE Aruba Networking 100G QSFP28 LC LR4 SMF Transceiver (JL310A)

- HPE Aruba Networking 100G QSFP28 LC CWDM4 2km SMF Transceiver (ROZ30A)
- HPE Aruba Networking 100G QSFP28 LC ER4L 40km SMF Transceiver (JL743A)
- HPE Aruba Networking 100G QSFP28 to QSFP28 1m Direct Attach Copper Cable (ROZ25A)
- HPE Aruba Networking 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable (JL307A)
- HPE Aruba Networking 100G QSFP28 to QSFP28 5m Direct Attach Copper Cable (ROZ26A)
- HPE Aruba Networking 100G QSFP28 to QSFP28 2m Active Optical Cable for HPE (R9F76A)
- HPE Compute QSFP28 to 4xSFP28 3m Breakout Direct Attach Cable (845416-B21)
- HPE Aruba Networking 100G QSFP28 to QSFP28 7m Active Optical Cable (ROZ27A)
- HPE Aruba Networking 100G QSFP28 to QSFP28 15m Active Optical Cable (ROZ28A)
- HPE Aruba Networking 100G QSFP28 to QSFP28 30m Active Optical Cable (ROZ29A)
- HPE (Compute) QSFP28 to 4x25G SFP28 7m Breakout Active Optical Cable (845420-B21)
- HPE (Compute) QSFP28 to 4x25G SFP28 15m Breakout Active Optical Cable (845424-B21)

Note: 8325 Series Switches do not support the use of 10G LRM transceivers (J9152D), nor 10G 7-meter Direct Attach Copper Cables (J9285D).

HPE Aruba Networking CX Advanced Feature Packs

- HPE Aruba Networking CX Soft 8/9xxx Sw Adv 1-Year E-STU (SOT87AAE)
- HPE Aruba Networking CX Soft 8/9xxx Sw Adv 3-Year E-STU (SOT88AAE)
- HPE Aruba Networking CX Soft 8/9xxx Sw Adv 5-Year E-STU (SOT89AAE)
- HPE Aruba Networking CX Soft 8/9xxx Sw Adv 7-Year E-STU (SOT90AAE)
- HPE Aruba Networking CX Soft 8/9xxx Sw Adv 10-Year E-STU (SOT86AAE)

¹Consult the HPE Aruba Networking Operating System-Switch and HPE Aruba Networking CX Operating System Transceiver Guide in the HPE Aruba Networking Support Portal for the minimum required software releases to support these transceivers. Guide also provides certain limitations for specific transceivers for use on switch models.

²10G LR support only for Revision E part, J9151E (Note: Do not use J9151D)

³Maximum of twelve (12) 10GBASE-T (JL563A) in 8325-48Y8C models only allowed in ports 1-2, 4-5, 7-8, 10-11, 13-14, 16-17 (Not applicable to 8325-32C models)

⁴Maximum of thirty-two (32) 1G RJ45 (J8177D) in 8325-48Y8C models only allowed in top two rows, not the third row (Not applicable to 8325-32C models)



HPE Aruba Networking Central CX Switch Subscription SKUs

- Central 8xxx/9xxx/10xxx Switch Foundation 1-Year Subscription E-STU (R3K03AAE)
- Central 8xxx/9xxx/10xxx Switch Foundation 3-Year Subscription E-STU (R3K04AAE)
- Central 8xxx/9xxx/10xxx Switch Foundation 5-Year Subscription E-STU (R3K05AAE)
- Central 8xxx/9xxx/10xxx Switch Foundation 7-Year Subscription E-STU (R3K06AAE)
- Central 8xxx/9xxx/10xxx Switch Foundation 10-Year Subscription E-STU (R3K07AAE)
- Central On-Premises 8xxx Switch Foundation 1-Year Subscription E-STU (R6U88AAE)
- Central On-Premises 8xxx Switch Foundation 3-Year Subscription E-STU (R6U89AAE)
- Central On-Premises 8xxx Switch Foundation 5-Year Subscription E-STU (R6U90AAE)
- Central On-Premises 8xxx Switch Foundation 7-Year Subscription E-STU (R6U91AAE)
- Central On-Premises 8xxx Switch Foundation 10-Year Subscription E-STU (R6U92AAE)

HPE Aruba Networking Fabric Composer

- Fabric Composer Device Management Service Tier 4 Switch 1 year Subscription E-STU (R7G99AAE)
- Fabric Composer Device Management Service Tier 4 Switch 3 year Subscription E-STU (R7H00AAE)
- Fabric Composer Device Management Service Tier 4 Switch 5 year Subscription E-STU (R7H01AAE)

Support

- JL624A: 4 Hour Onsite 3 Year (HC7C2E)
- JL625A: 4 Hour Onsite 3 Year (HC7C2E)
- JL626A: 4 Hour Onsite 3 Year (HC7C1E)
- JL627A: 4 Hour Onsite 3 Year (HC7C1E)

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

Make the right purchase decision.
Contact our presales specialists.



Contact us

Visit [ArubaNetworks.com](https://www.arubanetworks.com)

