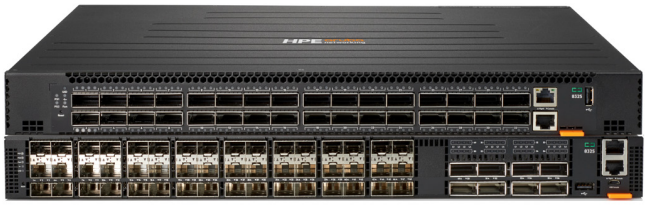
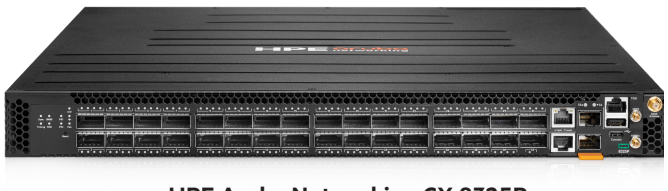
# HPE Aruba Networking CX 8325 Switch Series

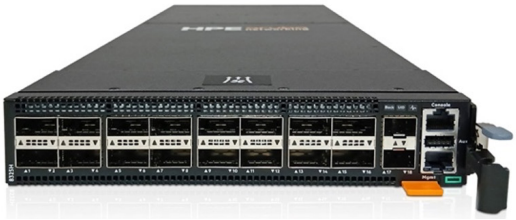
For enterprise campus and data center environments with high performance requirements



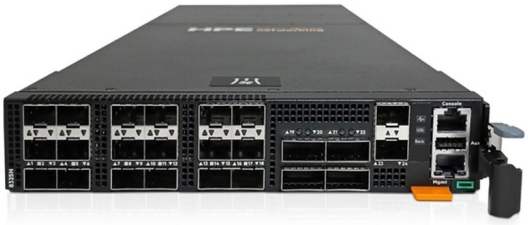
HPE Aruba Networking CX 8325-32C



HPE Aruba Networking CX 8325P



HPE Aruba Networking CX 8325H-16C



HPE Aruba Networking CX 8325H-18Y4C

## Table of contents

**2 Product overview**
**3 Product benefits**
**4 Product capabilities**
**7 Technical specifications**
**17 Standards and protocols**
**18 Bundles and accessories**

**CX 8325 Key features**

- High performance 6.4 Tbps of bidirectional switching capacity 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
- 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 1 U switch with 1/10/25GbE and 40/100GbE connectivity
- High hardware scale, including key data center and DCBx features including NEBS certification, N+1 fan tray redundancy with Front to Back or Back to Front airflow, N+1 redundant and hot swappable AC or DC power supplies, supporting a variety of deployment models

[1] 1G is supported only with the SFP ports for use with features like Telemetry, et al.

[2] GNSS, Telco Master Clock to be enabled in a future software release.

* Note at first release the CX 8325H will support static and dynamic IPv4 VXLAN only. Multicast overlay along with IPv6 underlay will come in a future release.

## 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 modern family of stackable 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 over 6.4Tbps of capacity, with line-rate Gigabit Ethernet interfaces including 1Gbps, 10Gbps, 25Gbps, 40Gbps, and 100Gbps.

Additionally, the new CX 8325H Switch Series are designed to provide high-performance connectivity (10/25/40/100G) with fixed, redundant power and cooling in a half-width, single RU form factor, while still meeting the requirements of a wide array of compute and storage, HCI networking use cases.

Based on HPE Aruba Networking CX Operating System (AOS-CX), a modern, database-driven OS that automates and simplifies critical and complex network tasks. AOS-CX provides an advanced Layer 2/3 feature set including BGP, OSPF, VRF-Lite, IPv6, dynamic VXLAN* and intelligent monitoring, visibility, and remediation with a network analytics engine.

The CX 8325 Switch Series is designed with Quality of Service (QoS) features, full-featured Layer 2 and Layer 3, and advanced EVPN-VXLAN* features. For enhanced visibility and troubleshooting, the 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, using Python agents, CLI-based agents and REST APIs.

### HPE Aruba Networking CX 8325

The HPE Aruba Networking CX 8325 Switch Series is a campus core and aggregation switch and data center (ToR) solution with an innovative and powerful approach to dealing with the cross-domain demands of the mobile, cloud, and IoT era.

The CX 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.

### HPE Aruba Networking CX 8325P

The HPE Aruba Networking CX 8325P, a part of the HPE Aruba Networking CX 8325 family, brings the PTP functionality with Boundary Clock feature with various timing interfaces to support Large Public Venue and Telco industry standards and targeted PTP profiles. It delivers key solutions for providers in their 5G (Radio Access Network) and edge computing deployments. Greater flexibility is built to ensure a range of deployment models by allowing 1G[1], 10G, 25G, 40G and 100G computing deployments, while ensuring greater interoperability with key HPE Telco solutions. More importantly, the CX 8325P includes key features such as PTP (1588v2), SMPTE, Telecom Profiles G.8275.1 and G.8275.2 with Class C performance, Synchronous Ethernet (SyncE, G.8262.1), and Global Navigation Satellite System (GNSS) to support Telco Boundary Clock and, in the future, Telco Grand Master Clock.[2]

When deployed as a platform for mobile backhaul, the CX 8325P can aggregate cell sites as a transport for Radio Access Network (RAN) backhaul traffic. It also provides the timing services required in today's converged access networks by offering integrated support for 10 MHz and 1 Pulse Per Second (1 PPS) using Subminiature version B (SMB) connectors, Time of Day (TOD) using RJ45 connectors, and GNSS using Subminiature version A (SMA) connectors. In addition, CX 8325P is NEBS compliant and supports AC/DC power inputs.

**CX 8325P-32C Key features**[3]

- Supports PTP (1588 v2), SMPTE, Telecom Profiles G.8275.1 and G.8275.2 with Class C performance, Synchronous Ethernet (SyncE, G.8262.1)
- PTP timing interfaces: 1 PPS, 10 MHz, and ToD+1 PPS input and output clocks GNSS module with antenna input interface
- Supports Global Navigation Satellite System (GNSS) to support Telco Boundary Clock and, in the future, Telco Grand Master Clock[4]

**CX 8325H Key features**

- High-performance, high density 1/10/25/40/100G connectivity with fixed, redundant power (1+1) and fans (3+1).
- Enables low-latency and lossless network QoS and connectivity characteristics that storage requires.
- CX 8325H-18Y4C is designed to support any combination of 1/10/25G interfaces on its 18 ports – no port grouping necessary. The 4 ports of 100G can be split using breakout cabling depending on your needs.
- CX 8325H-16C allows for different port speeds with breakout cabling, allowing for a single 100G to be split into 4x25G.

[3] In additional to the CX 8325 features listed above.

[4] GNSS, Telco Master Clock to be enabled in a future software release.

**HPE Aruba Networking CX 8325H**
The HPE Aruba Networking CX 8325H, a part of the HPE Aruba Networking CX 8325 family, is ideal for both traditional smaller scale data center connectivity, and for smaller edge or colocation data centers that require limited port density or have limited rack space. The CX 8325H switches can be used in small campus and branch locations where space is at a premium. The CX 8325H leverages the same high-performance ASIC and fully featured operating system that the full-width CX 8325 provides.

CX 8325H is designed to provide a high-performance 1/10/25/40/100G connectivity with fixed, redundant power and cooling in a half-width, single RU form factor while meeting the requirements of a wide array of compute and storage lossy and lossless networking use cases. These half-width switches deliver high availability, and affordability which helps to save space and costs on server, storage and HCI connectivity. They are designed to use less electric power than competing switches, with less than 100W the HPE Aruba Networking CX 8325H provides one of the industry's lowest power draws, producing less heat than competing products and allowing reduced OpEx cost.

## Product benefits

**HPE Aruba Networking CX Operating System—a modern software system**
HPE Aruba Networking CX Operating System (AOS-CX) is a modern, microservices-based, database-driven operating system that comes with every HPE Aruba Networking CX switch. AOS-CX 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 features are organized into HPE Aruba Networking CX Foundational and HPE Aruba Networking CX Advanced software licenses.

Key capabilities supported on the CX 8325 include:

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

Please refer the HPE Aruba Networking CX Operating System (AOS-CX) data sheet for the complete list of features supported on CX 8325.

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
- Support for 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, AI-native, cloud-native 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, an HPE Aruba Networking Central Advanced subscription enables the CX Advanced Feature Pack so there is no need to purchase it separately. 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.

**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.

## Product capabilities

**Performance**

**Performance high-speed fully distributed architecture**

- CX 8325-32C provides 6.4 Tbps of 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
- CX 8325H provides high-performance ASIC switching capacity of 2.16Tbps (full-duplex) with 18 ports of 1/10/25G and 4 ports of 40/100G and ASIC switching capacity of 4Tbps (full-duplex) with 16 ports of 40/100G.

**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:

- CX 8325-32C model has 32 ports of 40GbE/100GbE (QSFP+/QSFP28) [optional 4x10 and 4x25 breakout]
- CX 8325-48Y8C model has 48 ports of 1GbE/10GbE/25GbE (SFP/SFP+/ SFP28) [1 GBASE-T transceiver support and 10 GBASE-T transceiver limited support] +8 ports of 40GbE/100GbE (QSFP+/ QSFP28) [optional 4x10 and 4x25 breakout]
- CX 8325P-32C model has 32 ports of 40GbE/100GbE (QSFP+/QSFP28) [optional up to 31 ports of 4x10 and 4x25 breakout]

**High density 1/10/25/40/100G connectivity half-width, single RU form factor.**

- CX 8325H-18Y4C is designed to support any combination of 1/10/25G interfaces on its 18 ports – no port grouping necessary. The 4 ports of 100G can be split using breakout cabling depending on your needs
- CX 8325H-16C allows for different ports speeds with breakout cabling, allowing for a single 100GbE to be split into 4x25GbE

**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
- 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.

**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 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 Pro Care, please visit: hpe.com/us/en/networking/hpe-aruba-networking-support-services.html

**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 about HPE Aruba Networking CX Operating System software releases and features.

HPE Aruba Networking CX Operating System Switch Software Documentation Portal

HPE Aruba Networking Switch Feature Navigator

For **support and services** information, visit hpe.com/us/en/networking/hpe-aruba-networking-support-services.html

## Technical specifications

| | JL624A 8325-48Y8C front-to-back AC switch bundle | JL625A 8325-48Y8C back-to-front AC switch bundle | JL626A 8325-32C front-to-back AC switch bundle | JL627A 8325-32C back-to-front AC switch bundle |
|---|---|---|---|---|
| **Description** | 1 x JL635A base 8325-48Y8C switch<br>• 6 x JL628A Front-to-Back Fan<br>• 2 x JL632A Front-to-Back 650W 100-240 VAC Power Supply | 1 x JL635A base 8325-48Y8C switch<br>• 6 x JL629A Back-to-Front Fan<br>• 2 x JL633A Back-to-Front 650W 100-240 VAC Power Supply | 1 x JL636A base 8325-32C switch<br>• 6 x JL630A Front-to-Back Fan<br>• 2 x JL632A Front-to-Back 650W 100-240 VAC Power Supply | 1 x JL636A base 8325-32C switch<br>• 6 x JL631A Back-to-Front Fan<br>• 2 x JL633A Back-to-Front 650W 100-240 VAC Power Supply |
| | Supports 48 ports of 1G/10G/25GbE (SFP/SFP+/SFP28) and 8 ports of 40G/100GbE (QSFP+/QSFP28) [optional 1 GBASE-T and 10 GBASE-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 1 GBASE-T and 10 GBASE-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** | 4 Tbps | | 6.4 Tbps | |
| **IPv4 host table 120,000** | 120,000 | | | |
| **IPv6 host table 52,000** | 52,000 | | | |

* Some of these scaling numbers assume shared tables.

## Technical specifications

| | JL624A 8325-48Y8C front-to-back AC switch bundle | JL625A 8325-48Y8C back-to-front AC switch bundle | JL626A 8325-32C front-to-back AC switch bundle | JL627A 8325-32C back-to-front AC switch bundle |
|---|---|---|---|---|
| **Performance*** | | | | |
| **IPv4 unicast routes** | 131,072 | | | |
| **IPv6 unicast routes** | 32,732 | | | |
| **MAC table size** | 98,304 | | | |
| **IGMP groups** | 4,094 | | | |
| **MLD groups** | 4,094 | | | |
| **IPv4 multicast routes** | 8,192 | | | |
| **IPv6 multicast routes** | 8,192 | | | |
| **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 temperature** | -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 10,000 ft (3.048 km) | | | |
| **Max non-operating** | Up to 15,000 ft (4.6 km) | | | |
| **Primary airflow** | Front-to-back or back-to-front | | | |
| **Electrical characteristics** | | | | |
| **Power supplies** | 50-60 Hz | | | |
| **AC voltage** | 100-240 VAC | | | |
| **Current** | 6.2 A (low voltage)–3.1 A (high voltage) | | | |
| **Power consumption*** | Max: 586W, 2000 BTU/hr<br>Idle: 209W, 714 BTU/hr | Max: 586W, 2000 BTU/hr<br>Idle: 209W, 714 BTU/hr | Max: 618W, 2110 BTU/hr<br>Idle: 143W, 489 BTU/hr | Max: 618W, 2110 BTU/hr<br>Idle: 143W, 489 BTU/hr |

* Some of these scaling numbers assume shared tables.

## Technical specifications

| | JL857A 8325-48Y8C front-to-back DC switch bundle | JL858A 8325-48Y8C back-to-front DC switch bundle | JL859A 8325-32C front-to-back DC switch bundle | JL860A 8325-32C back-to-front DC switch bundle |
|---|---|---|---|---|
| **8325 DC power bundle options** | | | | |
| **DC input (nominal)** | -48 VDC | | | |
| **DC input (max range)** | -36 VDC to -72 VDC | | | |
| **Maximum current** | 14.3 A | 15.3 A | 15.1 A | 16.4 A |
| **Power consumption*** | Max: 520W, 1777 BTU/hr<br>Idle: 198W, 674 BTU/hr | Max: 520W, 1777 BTU/hr<br>Idle: 198W, 674 BTU/hr | Max: 558W, 1907 BTU/hr<br>Idle: 135W, 462 BTU/hr | Max: 558W, 1907 BTU/hr<br>Idle: 135W, 462 BTU/hr |
| **Safety** | | | | |
| | EN/IEC 62368-1, 2nd. Ed.<br>UL 62368-1, 2nd. Ed.<br>CAN/CSA C22.2 No. 62368-1, 2nd. Ed. | | | |
| **EMC** | | | | |
| | EN 55032:2015/CISPR 32, Class A<br>FCC CFR 47 Part 15: 2018 Class A<br>ICES-003 Class A<br>VCCI Class A<br>CNS 13438 Class A<br>KS C 9832 Class A<br>AS/NZS CISPR 32 Class A<br>EN 55035, CISPR 35, KS C 9835 | | | |
| **NEBS** | | | | |
| | SR-3580, Level 3, NEBS Criteria Levels<br>GR-1089-CORE, EMC & Electrical Safety<br>GR-63-CORE, Physical Protections<br>ETSI EN 300 386, Class A, EMC<br>ETSI EN 300 019-2-1, Class 1.2, Storage<br>ETSI EN 300 019-2-2, Class 2.3, Transportation<br>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, -48 VDC<br>ETSI ETS 300 753, Acoustic Noise | | | |

* 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.

## Technical specifications

| | JL857A 8325-48Y8C front-to-back DC switch bundle | JL858A 8325-48Y8C back-to-front DC switch bundle | JL859A 8325-32C front-to-back DC switch bundle | JL860A 8325-32C back-to-front DC switch bundle |
|---|---|---|---|---|
| **Lasers** | | | | |
| | EN60825-1:2014/IEC 60825-1: 2014 Class 1 Class 1 Laser Products/Laser Klasse 1 | | | |
| **Management** | | | | |
| | REST<br>SNMP<br>RJ-45 serial<br>USB micro USB console<br>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 | | | |

## Technical specifications

| | HPE Aruba Networking CX 8325P-32C front-to-back DC switch bundle | HPE Aruba Networking CX 8325P-32C back-to-front DC switch bundle | HPE Aruba Networking CX 8325P-32C front-to-back AC switch bundle | HPE Aruba Networking CX 8325P-32C back-to-front AC switch bundle |
|---|---|---|---|---|
| **Description** | • HPE Aruba Networking 8325P-32C 32p 100G QSFP+/28 Front-to-Back 6 Fans 2 DC PSU TAA Bundle (S0G07A)<br>• HPE Aruba Networking 8325P 32p QSFP28 40G/100G Front-to-Back 6 Fans 2 DC PSU Bundle (S4A49A)<br>• HPE Aruba Networking X3B4 850W 48 VDC Front-to-Back Power Supply Unit (S0G29A) | • HPE Aruba Networking 8325P-32C 32p 100G QSFP+/28 Back-to-Front 6 Fans 2 DC PSU TAA Bundle (S0G08A)<br>• HPE Aruba Networking 8325P 32p QSFP28 40G/100G Back-to-Front 6 Fans 2 DC PSU Bundle (S4A50A)<br>• HPE Aruba Networking X3B4 850W 48 VDC Back-to-Front Power Supply Unit (S0G30A) | • HPE Aruba Networking 8325P-32C 32p 100G QSFP+/28 Front-to-Back 6 Fans 2 AC PSU TAA Bundle (S0G09A)<br>• HPE Aruba Networking 8325P 32p QSFP28 40G/100G Front-to-Back 6 Fans 2 AC PSU Bundle (S4A51A)<br>• HPE Aruba Networking X3B1 650W 100-240 VAC Front-to-Back Power Supply Unit (S0G27A) | • HPE Aruba Networking 8325P-32C 32p 100G QSFP+/28 Back-to-Front 6 Fans 2 AC PSU TAA Bundle (S0G10A)<br>• HPE Aruba Networking 8325P 32p QSFP28 40G/100G Back-to-Front 6 Fans 2 AC PSU Bundle (S4A52A)<br>• HPE Aruba Networking X3B1 650W 100-240 VAC Back-to-Front Power Supply Unit (S0G28A) |
| **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) 4.3 cm x (W) 44.2 cm x (D) 56.5 cm (1.69" x 17.42" x 22.24") | (H) 4.3 cm x (W) 44.2 cm x (D) 56.5 cm (1.69" x 17.42" x 22.24") | (H) 4.3 cm x (W) 44.2 cm x (D) 55.3 cm (1.69" x 17.42" x 21.77") | (H) 4.3 cm x (W) 44.2 cm x (D) 55.3 cm (1.69" x 17.42" x 21.77") |
| **Full configuration weight** | 9.3 kg (20.5 lb) | 9.3 kg (20.5 lb) | 9.51 kg (21 lb) | 9.51 kg (21 lb) |
| **Additional specifications** | | | | |
| **CPU** | 2.2 GHz | | | |
| **Memory, drive and flash** | 32 GB RAM, 128 GB SSD, 4 GB flash | | | |
| **Packet buffer** | 32 MB | | | |
| **Performance*** | | | | |
| **Switching capacity** | 6.4 Tbps | | | |
| **IPv4 host table 120,000** | 120,000 | | | |
| **IPv6 host table 52,000** | 52,000 | | | |

* Some of these scaling numbers assume shared tables.

## Technical specifications

| | HPE Aruba Networking CX 8325P-32C front-to-back DC switch bundle | HPE Aruba Networking CX 8325P-32C back-to-front DC switch bundle | HPE Aruba Networking CX 8325P-32C front-to-back AC switch bundle | HPE Aruba Networking CX 8325P-32C back-to-front AC switch bundle |
|---|---|---|---|---|
| **Performance*** | | | | |
| **IPv4 unicast routes** | 131,072 | | | |
| **IPv6 unicast routes** | 32,732 | | | |
| **MAC table size** | 98,304 | | | |
| **IGMP groups** | 4,094 | | | |
| **MLD groups** | 4,094 | | | |
| **IPv4 multicast routes** | 8,192 | | | |
| **IPv6 multicast routes** | 8,192 | | | |
| **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 temperature** | -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 10,000 ft (3.048 km) | | | |
| **Max non-operating** | Up to 15,000 ft (4.6 km) | | | |
| **Primary airflow** | Front-to-back or back-to-front | | | |
| **Acoustics**[1] | LWAd = 7.3 Bel<br>LpAm (Bystander) = 57 dB | | LWAd = 7.5 Bel<br>LpAm (Bystander) = 57 dB | |
| **Electrical characteristics** | | | | |
| **Power supplies** | N/A | | 50 – 60 Hz | |
| **Voltage** | -36 – -72 VDC | | 100 – 240 VAC | |
| **Current** | 28 – 14A | | 7.8 – 3.8A | |
| **Power consumption*** | Max: 632W<br>Idle: 160W | | Max: 632W<br>Idle: 179W | |

* Some of these scaling numbers assume shared tables.

[1] Acoustics are measured in 23± 2°C hemi-anechoic chamber with a loading of 100% traffic on all ports. The ports are populated with 100G AOC and transceivers. Acoustic sound levels are measured in accordance with ECMA-74:2019. The values presented is the mean bystander A-weighted Sound Pressure Level (LpAm).

## Technical specifications

| | HPE Aruba Networking CX 8325P-32C front-to-back DC switch bundle | HPE Aruba Networking CX 8325P-32C back-to-front DC switch bundle | HPE Aruba Networking CX 8325P-32C front-to-back AC switch bundle | HPE Aruba Networking CX 8325P-32C back-to-front AC switch bundle |
|---|---|---|---|---|
| **Safety** | | | | |
| | EN/IEC 62368-1 2nd, & 3rd, Edition.<br>UL 62368-1 3rd, Edition.<br>CSA C22.2 No. 62368-1:19, 3rd. Edition. | | | |
| **EMC** | | | | |
| | EN 55032: 2015/CISPR 32, Class A<br>FCC CFR 47 Part 15: Class A<br>VCCI-CISPR 32, Class A<br>CNS 15936, Class A<br>KS C 9832, Class A<br>AS/NZS CISPR 32, Class A<br>EN 55035, CISPR 35, KS C 9835<br>ETSI EN 301 489-1<br>ETSI EN 301 489-19<br>TEC/EMI/TEL-001/FEB-09<br>TEC-SD-DD-EMC-221-05-OCT-16 | | | |
| **NEBS** | | | | |
| | SR-3580, Level 3, NEBS Criteria Levels GR-1089-CORE, EMC & Electrical Safety GR-63-CORE, Physical Protections<br>ETSI EN 300 386, Class A, EMC<br>ETSI EN 300 019-2-1, Class 1.2, Storage<br>ETSI EN 300 019-2-2, Class 2.3, Transportation<br>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, -48 VDC<br>ETSI ETS 300 753, Acoustic Noise | | | |
| **Lasers** | | | | |
| | EN60825-1:2014/IEC 60825-1: 2014 Class 1 Class 1 Laser Products/Laser Klasse 1 | | | |
| **Management** | | | | |
| | REST<br>SNMP<br>RJ-45 serial<br>USB-C console<br>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 | | | |

## Technical specifications

| | HPE Aruba Networking CX 8325H-18Y4C front-to-back switch | HPE Aruba Networking CX 8325H-18Y4C back-to-front switch | HPE Aruba Networking CX 8325H-16C front-to-back switch | HPE Aruba Networking CX 8325H-16C back-to-front switch |
|---|---|---|---|---|
| **Description** | • HPE Aruba Networking 8325H 18p SFP28 25G 4p QSFP28 100G Front-to-Back 4xFan 2xPSU TAA Switch (S2T42A)<br>• HPE Aruba Networking 8325H 18p SFP28 25G 4p QSFP28 100G Front-to-Back 4xFan 2xPSU Switch (S4B20A)<br>• 1 x 8325H 18Y 4C 1RU Front-to-Back Half-Width switch which includes 2 Fixed PSU (1+1) and 4 Fixed Fans (N+1). | • HPE Aruba Networking 8325H 18p SFP28 25G 4p QSFP28 100G Back-to-Front 4xFan 2xPSU TAA Switch (S2T46A)<br>• HPE Aruba Networking 8325H 18p SFP28 25G 4p QSFP28 100G Back-to-Front 4xFan 2xPSU Switch (S4B21A)<br>• 1 x 8325H 18Y 4C 1RU Back-to-Front Half-Width switch which includes 2 Fixed PSU (1+1) and 4 Fixed Fans (N+1). | • HPE Aruba Networking 8325H 16p QSFP28 40G/100G Front-to-Back 4xFan 2xPSU TAA Switch (S2T47A)<br>• HPE Aruba Networking 8325H 16p QSFP28 40G/100G Front-to-Back 4xFan 2xPSU Switch (S4B22A)<br>• 1 x 8325H 16C 1RU Front-to-Back Half-Width switch which includes 2 Fixed PSU (1+1) and 4 Fixed Fans (N+1). | • HPE Aruba Networking 8325H 16p QSFP28 40G/100G Back-to-Front 4xFan 2xPSU TAA Switch (S2T48A)<br>• HPE Aruba Networking 8325H 16p QSFP28 40G/100G Back-to-Front 4xFan 2xPSU Switch (S4B23A)<br>• 1 x 8325H 16C 1RU Back-to-Front Half-Width switch which includes 2 Fixed PSU (1+1) and 4 Fixed Fans (N+1). |
| **Power supplies** | 2 Fixed power supplies(1+1). | | | |
| **Fans** | 4 fixed fans (N+1). | | | |
| **Physical characteristics** | | | | |
| **Dimensions** | (H) 4.3 cm x (W) 21 cm x (D) 57.7 cm (1.69"x 8.27"x 22.7") | (H) 4.3 cm x (W) 21 cm x (D) 57.7 cm (1.69"x 8.27"x 22.7") | (H) 4.3 cm x (W) 21 cm x (D) 57.7 cm (1.69"x 8.27"x 22.7") | (H) 4.3 cm x (W) 21 cm x (D) 57.7 cm (1.69"x 8.27"x 22.7") |
| **Full configuration weight** | 5.94 kg (13.08 lb) | 5.94 kg (13.08 lb) | 6.01 kg (13.24 lb) | 6.01 kg (13.24 lb) |
| **Additional specifications** | | | | |
| **CPU** | AMD x86 8 Core | | | |
| **Memory, drive and flash** | 32 GB RAM, 128 GB SSD | | | |
| **Packet buffer** | 32 MB | | | |
| **Performance*** | | | | |
| **Switching capacity** | 2.16 Tbps | | 4 Tbps | |
| **IPv4 host table** | 120,000 | | | |
| **IPv6 host table** | 52,000 | | | |

* Some of these scaling numbers assume shared tables.

## Technical specifications

| | HPE Aruba Networking CX 8325H-18Y4C front-to-back switch | HPE Aruba Networking CX 8325H-18Y4C back-to-front switch | HPE Aruba Networking CX 8325H-16C front-to-back switch | HPE Aruba Networking CX 8325H-16C back-to-front switch |
|---|---|---|---|---|
| **Performance*** | | | | |
| **IPv4 unicast routes** | 131,072 | | | |
| **IPv6 unicast routes** | 32,732 | | | |
| **MAC table size** | 98,304 | | | |
| **IGMP groups** | 4,094 | | | |
| **MLD groups** | 4,094 | | | |
| **IPv4 multicast routes** | 8,192 | | | |
| **IPv6 multicast routes** | 8,192 | | | |
| **Environment** | | | | |
| **Operating temperature** | 0°C to 45°C (32F-113F)* (F2B); 0°C to 40°C (32F-104F)* (B2F)<br>at sea level Derate 1°C for every 1,000 ft to 10,000 ft (300 m to 3.0 km)<br>*18Y4C (F2B) 40°C when 100G QSFP28 Optical xcvers in port 20, 22;<br>**18Y4C (B2F) 35°C when 100G QSFP28 Optical xcvers in port 19,20,21,22 | | | |
| **Operating relative humidity** | 5% to 95% at 45°C (113°F) non-condensing | | | |
| **Non-operating temperature** | -40°F to 158°F up to 15,000 ft (-40°C to 70°C up to 4.6 km) | | | |
| **Non-operating/ storage relative humidity** | 5% to 95% @ 149°F (65°C) non-condensing | | | |
| **Max operating altitude** | 10,000 ft (3.0 km) Max | | | |
| **Max non-operating** | 15,000 ft (4.6 km) Max | | | |
| **Primary airflow** | Front-to-back or back-to-front | | | |
| **Acoustics**[1] | F2B: LpAm (Bystander) = 41.4 dB<br>LWad = 5.6 Bel<br>B2F: LpAm (Bystander) = 40.6 dB<br>LWad = 5.5 Bel | | F2B: LpAm (Bystander) = 40.1 dB<br>LWad = 5.5 Bel<br>B2F: LpAm (Bystander) = 40.4 dB<br>LWad = 5.5 Bel | |
| **Electrical characteristics** | | | | |
| **Power supplies** | 50 – 60 Hz | | 50 – 60 Hz | |
| **Voltage** | 100 – 240 VAC | | 100 – 240 VAC | |
| **Current** | 7A 4A | | 7A 4A | |
| **Power consumption*** | Max: 500 W, 1705 BTU/hr<br>Idle: 100 W, 341 BTU/hr | | Max: 500 W, 1705 BTU/hr<br>Idle: 114 W, 389 BTU/hr | |

* Some of these scaling numbers assume shared tables.
[1] Acoustics are measured in 23± 2°C hemi-anechoic chamber with a loading of 100% traffic on all ports. The ports are populated with 100G AOC and transceivers. Acoustic sound levels are measured in accordance with ECMA-74:2019. The values presented is the mean bystander A-weighted Sound Pressure Level (LpAm).

## Technical specifications

| | HPE Aruba Networking CX 8325H-18Y4C front-to-back switch | HPE Aruba Networking CX 8325H-18Y4C back-to-front switch | HPE Aruba Networking CX 8325H-16C front-to-back switch | HPE Aruba Networking CX 8325H-16C back-to-front switch |
|---|---|---|---|---|
| **Safety** | | | | |
| | EN/IEC 62368-1 2nd, & 3rd, Edition.<br>UL 62368-1 3rd, Edition.<br>CSA C22.2 No. 62368-1:19, 3rd. Edition. | | | |
| **EMC** | | | | |
| | EN 55032: 2015/CISPR 32, Class A<br>FCC CFR 47 Part 15: Class A<br>VCCI-CISPR 32, Class A<br>CNS 15936, Class A<br>KS C 9832, Class A<br>AS/NZS CISPR 32, Class A<br>EN 55035, CISPR 35, KS C 9835<br>ETSI EN 301 489-1<br>ETSI EN 301 489-19<br>TEC/EMI/TEL-001/FEB-09<br>TEC-SD-DD-EMC-221-05-OCT-16 | | | |
| **NEBS** | | | | |
| | SR-3580, Level 3, NEBS Criteria Levels GR-1089-CORE, EMC & Electrical Safety GR-63-CORE, Physical Protections<br>ETSI EN 300 386, Class A, EMC<br>ETSI EN 300 019-2-1, Class 1.2, Storage<br>ETSI EN 300 019-2-2, Class 2.3, Transportation<br>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, -48 VDC<br>ETSI ETS 300 753, Acoustic Noise | | | |
| **Lasers** | | | | |
| | EN60825-1:2014/IEC 60825-1: 2014 Class 1 Class 1 Laser Products/Laser Klasse 1 | | | |
| **Management** | | | | |
| | REST<br>SNMP<br>RJ-45 serial<br>USB-C console<br>RJ-45 Ethernet port | | | |
| **Mounting and enclosure** | | | | |
| | Mounts in an EIA standard 19-inch rack or other equipment cabinet; horizontal surface mounting only; Requires either 2 Post (S2T44A) Rack mount Kit, Brackets Included or 4 Post (S2T43A) Rack Mount Kit, Rail mounts ordered separately (J9583B) | | | |

## 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 SMIv2
- 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
- PTP (1588v2), Telecom Profiles G.8275.1 and G.8275.2 with Class C performance, Synchronous Ethernet (SyncE, G.8262.1)*

## 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.

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

**Telco bundle options**
- HPE Aruba Networking 8325P-32C 32-port 100G QSFP+/QSFP28 TAA Switch (S0G12A)
- HPE Aruba Networking 8325P-32C 32p 100G QSFP+/28 Front-to-Back 6 Fans 2 DC PSU TAA Bundle (S0G07A)
- HPE Aruba Networking 8325P-32C 32p 100G QSFP+/28 Back-to-Front 6 Fans 2 DC PSU TAA Bundle (S0G08A)
- HPE Aruba Networking 8325P-32C 32p 100G QSFP+/28 Front-to-Back 6 Fans 2 AC PSU TAA Bundle (S0G09A)
- HPE Aruba Networking 8325P-32C 32p 100G QSFP+/28 Back-to-Front 6 Fans 2 AC PSU TAA Bundle (S0G10A)
- HPE Aruba Networking 8325P 32p QSFP28 40G/100G Switch (S4A48A)
- HPE Aruba Networking 8325P 32p QSFP28 40G/100G Front-to-Back 6xFan 2xDC PSU Bundle (S4A49A)
- HPE Aruba Networking 8325P 32p QSFP28 40G/100G Back-to-Front 6xFan 2xDC PSU Bundle (S4A50A)
- HPE Aruba Networking 8325P 32p QSFP28 40G/100G Front-to-Back 6xFan 2xAC PSU Bundle (S4A51A)
- HPE Aruba Networking 8325P 32p QSFP28 40G/100G Back-to-Front 6xFan 2xAC PSU Bundle (S4A52A)
- HPE Aruba Networking X3B1 650W 100-240 VAC Front-to-Back Power Supply Unit (S0G27A)
- HPE Aruba Networking X3B1 650W 100-240 VAC Back-to-Front Power Supply Unit (S0G28A)
- HPE Aruba Networking X3B4 850W 48 VDC Front-to-Back Power Supply Unit (S0G29A)
- HPE Aruba Networking X3B4 850W 48 VDC Back-to-Front Power Supply Unit (S0G30A)

* Supported only on CX 8325P-32C models.

**8325H AC options**
- HPE Aruba Networking 8325H 18p SFP28 25G 4p QSFP28 100G Front-to-Back 4xFan 2xPSU TAA Switch (S2T42A)
- HPE Aruba Networking 8325H 18p SFP28 25G 4p QSFP28 100G Back-to-Front 4xFan 2xPSU TAA Switch (S2T46A)
- HPE Aruba Networking 8325H 18p SFP28 25G 4p QSFP28 100G Front-to-Back 4xFan 2xPSU Switch (S4B20A)
- HPE Aruba Networking 8325H 18p SFP28 25G 4p QSFP28 100G Back-to-Front 4xFan 2xPSU Switch (S4B21A)
- HPE Aruba Networking 8325H 16p QSFP28 40G/100G Front-to-Back 4xFan 2xPSU TAA Switch (S2T47A)
- HPE Aruba Networking 8325H 16p QSFP28 40G/100G Back-to-Front 4xFan 2xPSU TAA Switch (S2T48A)
- HPE Aruba Networking 8325H 16p QSFP28 40G/100G Front-to-Back 4xFan 2xPSU Switch (S4B22A)
- HPE Aruba Networking 8325H 16p QSFP28 40G/100G Back-to-Front 4xFan 2xPSU Switch (S4B23A)

**8325 Mounting kit (required when ordering a bundle)**
- 2-post Rack Kit (JL482C)
- 4-post Rack Kit (JL483C)

**8325H Mounting kit**
- HPE Aruba Networking 8325H 4-post Rack Mount Kit (S2T43A)—requires J9583B 4 post rail kit, ordered separately
- HPE Aruba Networking 8325H 2-post Rack Mount Kit (S2T44A)
- HPE Aruba Networking 8325H 4-post Rail Kit (J9583B)
- HPE Aruba Networking 8325H Rack Mount Blank Panel (S5D79A)—optional if only 1 switch is installed in the rack mount kit

**HPE Aruba Networking console cable**
- HPE Aruba Networking USBA-RJ45 PIN3TX-6RX Cable (R8Z87A)
- HPE Aruba Networking 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 100-240 VAC Front-to-Back Power Supply (JL632A)
- 8325 650W 100-240 VAC Back-to-Front Power Supply (JL633A)
- 8325 850W 48 VDC Front-to-Back Power Supply (JL861A)
- 8325 850W 48 VDC 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 transceivers[1]**
- 1G SFP LC SX 500 m MMF Transceiver (J4858D)
- 1G SFP LC LX 10 km SMF Transceiver (J4859D)
- 1G SFP LC LH 70 km SMF Transceiver (J4860D)
- 1G SFP RJ45 100m XCVR (J8177E)[4]
- HPE Aruba Networking 1G SFP LC SX 500 m MMF TAA Transceiver (JL745A)
- HPE Aruba Networking 1G SFP LC LX 10 km SMF TAA Transceiver (JL746A)
- HPE Aruba Networking 1G SFP RJ45 T 100 m Cat5e TAA Transceiver (JL747A)

**10G transceivers[1] and cables**
- HPE Aruba Networking 10G SR SFP+ LC 400 m OM4 C-XCVR (S2P30A)
- HPE Aruba Networking 10G LR SFP+ LC 10 km SMF C-XCVR (S2P31A)
- HPE Aruba Networking 10G ER SFP+ LC 40 km SMF C-XCVR (S2P32A)
- HPE Aruba Networking 10G SFP+ LC SR 300 m MMF Transceiver (J9150D)
- HPE Aruba Networking 10G SFP+ LC LR 10 km SMF Transceiver (J9151E)[2]

[1]Consult 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.

[2] 10G LR support only for Revision E part, J9151E (Note: Do not use J9151D)

[3] Maximum of twelve (12) 10 GBASE-T (JL563C) 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)

[4] Maximum of thirty-two (32) 1G RJ45 (J8177E) in 8325-48Y8C models only allowed in top two rows, not the third row (Not applicable to 8325-32C models)

- HPE Aruba Networking 10G SFP+ LC ER 40 km SMF Transceiver (J9153D)
- HPE Aruba Networking 10 GBASE-T SFP+ RJ45 30 m Transceiver (JL563C)[3]
- HPE Aruba Networking 10G SFP+ to SFP+ 1 m Direct Attach Copper Cable (J9281D)
- HPE Aruba Networking 10G SFP+ to SFP+ 3 m Direct Attach Copper Cable (J9283D)
- HPE (Compute) BLc 10G SFP+ SFP+ 3 m DAC Cable (487655-B21)
- HPE (Compute) BLc 10G SFP+ SFP+ 5 m DAC Cable (537963-B21)

**25G transceivers[1] and cables**

- HPE Aruba Networking 25G SFP28 LC SR 100 m MMF Transceiver (JL484A)
- HPE Aruba Networking 25G SFP28 LC eSR 400 m MMF Transceiver (JL485A)
- HPE Aruba Networking 25G SFP28 LC LR 10 km SMF Transceiver (JL486A)
- HPE Aruba Networking 25G SFP28 to SFP28 0.65 m Direct Attach Copper Cable (JL487A)
- HPE Aruba Networking 25G SFP28 to SFP28 3 m Direct Attach Copper Cable (JL488A)
- HPE Aruba Networking 25G SFP28 to SFP28 5 m Direct Attach Copper Cable (JL489A)
- HPE Aruba Networking 25G SFP28 to SFP28 3 m Active Optical Cable (R0M44A)
- HPE Aruba Networking 25G SFP28 to SFP28 7 m Active Optical Cable (R0M45A)
- HPE Aruba Networking 25G SFP28 to SFP28 15 m Active Optical Cable (R0Z21A)
- HPE (Compute) 25 Gb SFP28 to SFP28 3 m DAC (844477-B21)
- HPE (Compute) 25 Gb SFP28 to SFP28 5 m DAC (844480-B21)
- HPE Aruba Networking 25G SR SFP28 LC 100 m MMF C-XCVR (S2P33A)
- HPE Aruba Networking 25G LR SFP28 LC 10 km SMF C-XCVR (S2P34A)
- HPE ANW 25G ER 40km SMF xcvr (S0V69A)
- HPE ANW 25G BR10- D 1330/1270 xcvr (S1C96A)
- HPE ANW 25G BR10- U 1270/1330 xcvr (S1C98A)

**40G transceivers[1] and cables**

- HPE Aruba Networking 40G QSFP+ LC BiDi 150 m MMF Transceiver (JL308A)
- HPE X142 40G QSFP+ MPO SR4 Transceiver (JH231A)
- HPE X142 40G QSFP+ MPO eSR4 300 M Transceiver (JH233A)
- HPE X142 40G QSFP+ LC LR4 SM Transceiver (JH232A)
- HPE Aruba Networking 40G QSFP+ LC ER4 40 km SMF Transceiver (Q9G82A)
- HPE X242 40G QSFP+ to QSFP+ 1 m Direct Attach Copper Cable (JH234A)
- HPE X242 40G QSFP+ to QSFP+ 3 m Direct Attach Copper Cable (JH235A)
- HPE X242 40G QSFP+ to QSFP+ 5 m Direct Attach Copper Cable (JH236A)
- HPE Aruba Networking 40G QSFP+ to QSFP+ 7 m Active Optical Cable (R0Z22A)
- HPE Aruba Networking 40G QSFP+ to QSFP+ 15 m Active Optical Cable (R0Z23A)
- HPE Aruba Networking 40G QSFP+to QSFP+ 30 m Active Optical Cable (R0Z24A)
- HPE HIT QSFP+to 4xSFP+3 m Breakout Direct Attach Cable (721064-B21)
- HPE (Compute) BLc QSFP+to 4x10G SFP+AOC 15 m Opt (721076-B21)

**100G transceivers[1] 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 2 km SMF Transceiver (R0Z30A)
- HPE Aruba Networking 100G QSFP28 LC ER4L 40 km SMF Transceiver (JL743A)
- HPE Aruba Networking 100G DR QSFP28 LC 500 m SMF Transceiver (S3N88A)
- HPE Aruba Networking 100G LR QSFP28 LC 10 km SMF Transceiver (S3N89A)
- HPE ANW 100G SR1.2 QSFP28 LC 100m XCVR (S4B44A)
- HPE Aruba Networking 100G QSFP28 to QSFP28 1 m Direct Attach Copper Cable (R0Z25A)
- HPE Aruba Networking 100G QSFP28 to QSFP28 3 m Direct Attach Copper Cable (JL307A)

[1] Consult 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.

- HPE Aruba Networking 100G QSFP28 to QSFP28 5 m Direct Attach Copper Cable (R0Z26A)
- HPE Aruba Networking 100G QSFP28 to QSFP28 2 m
- HPE QSFP28 to SFP28 Adapter (845970-B21)
- HPE 100Gb QSFP28 Bidirectional XCVR (845972-B21)
- HPE Aruba Networking Aruba 100G QSFP28 to QSFP28 2m AOC (JL856A)
- HPE Aruba Networking Aruba 100 QSFP28 LC FR1 2km SMF Transceiver (R9B63A)
- HPE ANW 100G SR2 QSFP28 100m MMF xcvr (S1C93A)
- HPE Compute QSFP28 to 4xSFP28 3 m Breakout Direct Attach Cable (845416-B21)
- HPE Aruba Networking 100G QSFP28 to QSFP28 7 m Active Optical Cable (R0Z27A)
- HPE Aruba Networking 100G QSFP28 to QSFP28 15 m Active Optical Cable (R0Z28A)
- HPE Aruba Networking 100G QSFP28 to QSFP28 30 m Active Optical Cable (R0Z29A)
- HPE (Compute) QSFP28 to 4x25G SFP28 7 m Breakout Active Optical Cable (845420-B21)
- HPE (Compute) QSFP28 to 4x25G SFP28 15 m Breakout Active Optical Cable (845424-B21)

Note: 8325 Switch Series 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 (S0T87AAE)
- HPE Aruba Networking CX Soft 8/9xxx Sw Adv 3-Year E-STU (S0T88AAE)
- HPE Aruba Networking CX Soft 8/9xxx Sw Adv 5-Year E-STU (S0T89AAE)
- HPE Aruba Networking CX Soft 8/9xxx Sw Adv 7-Year E-STU (S0T90AAE)
- HPE Aruba Networking CX Soft 8/9xxx Sw Adv 10-Year E-STU (S0T86AAE)

**HPE Aruba Networking Central CX Switch Subscription SKUs**

- HPE Aruba Networking Central 8xxx/9xxx/10xxx Switch Foundational 1-Year Subscription E-STU (R3K03AAE)
- HPE Aruba Networking Central 8xxx/9xxx/10xxx Switch Foundational 3-Year Subscription E-STU (R3K04AAE)
- HPE Aruba Networking Central 8xxx/9xxx/10xxx Switch Foundational 5-Year Subscription E-STU (R3K05AAE)
- HPE Aruba Networking Central 8xxx/9xxx/10xxx Switch Foundational 7-Year Subscription E-STU (R3K06AAE)
- HPE Aruba Networking Central 8xxx/9xxx/10xxx Switch Foundational 10-Year Subscription E-STU (R3K07AAE)
- HPE Aruba Networking Central On-Premises 8xxx Switch Foundational 1-Year Subscription E-STU (R6U88AAE)
- HPE Aruba Networking Central On-Premises 8xxx Switch Foundational 3-Year Subscription E-STU (R6U89AAE)
- HPE Aruba Networking Central On-Premises 8xxx Switch Foundational 5-Year Subscription E-STU (R6U90AAE)
- HPE Aruba Networking Central On-Premises 8xxx Switch Foundational 7-Year Subscription E-STU (R6U91AAE)
- HPE Aruba Networking Central On-Premises 8xxx Switch Foundational 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 On-site 3-Year (HC7C2E)
- JL625A: 4 Hour On-site 3-Year (HC7C2E)
- JL626A: 4 Hour On-site 3-Year (HC7C1E)
- JL627A: 4 Hour On-site 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.





a00059009ENW, Rev. 3

Hewlett Packard Enterprise