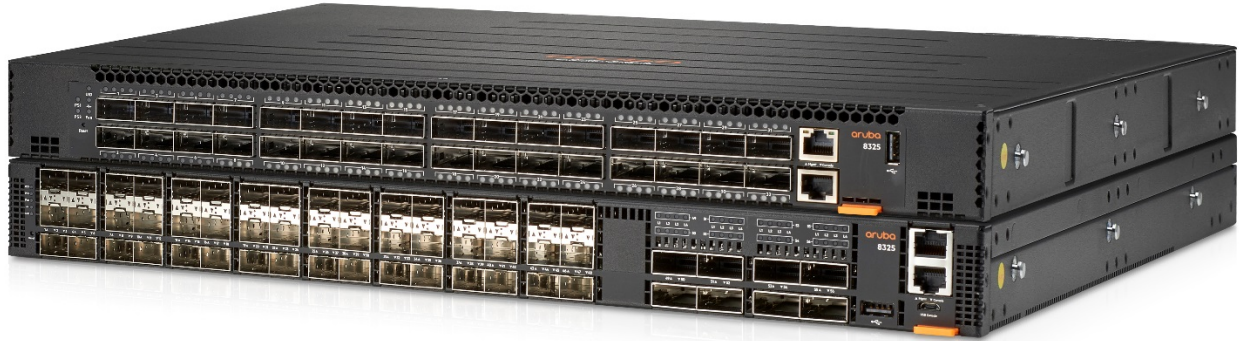


### Overview

### Aruba 8325 Switch Series



### Models

Aruba 8325-48Y8C 48p 25G SFP+/28 8p 100G QSFP+/28 Front-to-Back 6 Fans and 2 PSU Bundle	JL624A
Aruba 8325-48Y8C 48p 25G SFP+/28 8p 100G QSFP+/28 Back-to-Front 6 Fans and 2 PSU Bundle	JL625A
Aruba 8325-32C 32-port 100G QSFP+/QSFP28 Front-to-Back 6 Fans and 2 Power Supply Bundle	JL626A
Aruba 8325-32C 32-port 100G QSFP+/QSFP28 Back-to-Front 6 Fans and 2 Power Supply Bundle	JL627A

### Product overview

The past several decades in networking have been defined by static, closed networking solutions designed for the client-server era. Aruba is introducing the Aruba 8325 campus core and aggregation switch series, a game-changing solution offering a flexible and innovative approach to dealing with the demands of the mobile, cloud and IoT era.

The 8325 switch series provides industry-leading line rate 1/10/25GbE (SFP/SFP+/SFP28) and 40/100 GbE (QSFP+/QSFP28) connectivity in a compact 1U form factor. Together with the modular Aruba 8400 chassis, the 8325 rounds out Aruba's campus and data center switching portfolio with an enterprise core and aggregation solution that ensures higher performance and higher uptime.

The 8325 switch series is based on the ArubaOS-CX, a modern software system for the enterprise core that automates and simplifies many critical and complex network tasks, delivers enhanced fault tolerance and facilitates zero service disruption during planned or unplanned control-plane events. The key innovations in ArubaOS-CX are its microservices style modular architecture, REST APIs, Python scripting capabilities and the Aruba Network Analytics Engine (NAE).

ArubaOS-CX is based on a modular architecture that allows individual process restartability and upgrades. Its REST APIs and Python scripting enables fine-grained programmability of the switch functions; its unique NAE provides the ability to monitor and troubleshoot the network easily.

The NAE framework is made up of a time series database (TSDB) and associated REST APIs.

The TSDB may be used to store configuration and operational state. Customers can use ArubaOS-CX REST APIs, Python scripting capabilities and time series data to write software modules to trouble shoot problems. The time series data may also be used to analyze trends, identify anomalies and predict future capacity requirements.

### Key features

## Overview

- High performance 6.4Tbps with 1,905Mpps throughput
- High availability with redundant power supplies and fans
- Suitable for core/aggregation in the campus or Top of Rack (ToR) in the data center
- ArubaOS-CX enables automation and programmability using built-in REST APIs and Python scripts
- Intelligent monitoring and visibility with Aruba Network Analytics Engine
- Advanced Layer 2/3 feature set includes BGP, OSPF, VRF, and IPv6
- Compact 1U switches with 1/10/25GbE and 40/100GbE connectivity

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## Features and benefits

### Product architecture

- **ArubaOS-CX.**
  - Modular, Linux based and built with OVSDDB to support a database-centric operating system.
  - Distributed architecture with separation of data and control planes.
  - Includes independent monitoring and restart of individual software modules, and enhanced software process serviceability functions.
  - Allows individual software modules to be upgraded for higher availability..
- **Network Analytics Engine**  
A first of a kind built-in framework for monitoring, troubleshooting and capacity planning

### Performance

- **High-speed fully distributed architecture**  
Provides 6.4Tbps for switching and 2,000MPPS 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 connectivity**  
Choice of compact 1U switches include a model with 32 ports of 40G/100GbE (QSFP+/QSFP28) and a model with 48 ports of 1G/10G/25GbE (SFP/SFP+/SFP28) and 6 ports of 40G/100GbE (QSFP+/QSFP28) SFP+ ports support an optional 10GBASE-T Transceiver.
- **Jumbo frames**  
Allows high-performance backups and disaster-recovery systems; provides a maximum frame size of 9K bytes
- **Loopback**  
Supports internal loopback testing for maintenance purposes and an increase in 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
- **Flexible port selection**  
Provides connectivity for 10GbE (SFP/SFP+, 10GBASE-T) and 40GbE (QSFP+)
- **Packet storm protection**  
Protects against unknown broadcast, unknown multicast, or unicast storms with user-defined thresholds

### Quality of Service (QoS)

- **Powerful QoS feature**  
Supports the following congestion actions: strict priority (SP) queuing and weighted fair queuing

## Overview

### Resiliency and high availability

- **VRRP**  
Allows groups of two routers to dynamically back each other up to create highly available routed environments
- **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 47 trunks, each with eight links per trunk; and provides support for static or dynamic groups and a user-selectable hashing algorithm
- **Redundant power supplies**  
Provides N+1 high reliability with hot swappable, redundant power supplies

### Virtual private network (VPN)

- **Generic Routing Encapsulation (GRE)**  
Enables tunneling traffic from site to site over a Layer 3 path

### Management

- **IPSLA**  
Monitor the network for degradation of various services, including monitoring voice. Monitoring is enabled via the NAE for history and for automated gathering of additional information when anomalies are detected.
- **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
- **SNMP v2c/v3**  
Provides SNMP read and trap support of industry standard Management Information Base (MIB), and private extensions
- **Redundant and load-sharing fans, and power supplies**
- **sFlow (RFC 3176)**  
Increases total performance and power availability while providing hitless, stateful failover
- **Hot swappable power supply and fan modules**  
Allows replacement of modules without any impact on other modules
- **Separate data and control paths**  
Separates control from services and keeps service processing isolated; increases security and performance
- 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.

## Overview

- **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 easily to the flash image

## Layer 2 switching

- **VLAN**
- Supports up to 4,096 port-based or IEEE 802.1Q-based VLANs; and supports MAC-based VLANs, protocol-based VLANs, and IP-subnet-based VLANs for added flexibility
- **VXLAN**  
Supports static VXLAN. Allows you to manually connect two or more VXLAN tunnel endpoints (VTEP).
- **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)
- **Internet Group Management Protocol (IGMP)**  
Controls and manages the flooding of multicast packets in a Layer 2 network
- **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

## 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**  
Support 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
- **Domain Name System (DNS)**  
Provides a distributed database that translates domain names and IP addresses, which simplifies network design; supports client and server

## Layer 3 routing

- **Policy Based Routing (PBR)**  
Enables using a classifier to select traffic that can be forwarded based on policy set by the network administrator.
- **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
- **Border Gateway Protocol 4 (BGP-4)**  
Delivers an implementation of the Exterior Gateway Protocol (EGP) utilizing path vectors; uses TCP for enhanced

## Overview

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

- **Multiprotocol BGP (MP-BGP) with IPv6 Address Family**  
Enables sharing of IPv6 routes using BGP and connections to BGP peers using IPv6.
- **IPv6 Multicast Routing**  
Provides capability to enable routing of IPv6 multicast traffic. Supports multicast listener discovery (MLD), MLD Snooping, and PIM-SM IPv6 Routing.
- **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
- **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

## Security

- **TAA Compliance**  
The Aruba 8325, a TAA-compliant product, with the ArubaOS-CX 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.
- **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
- **Management access security**  
Aruba OS CX 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

- **IGMP Snooping**  
Allows multiple VLANs to receive the same IPv4 multicast traffic, lessening network bandwidth demand by reducing multiple streams to each VLAN
- **Protocol Independent Multicast (PIM)**  
Defines modes of IPv4 multicasting to allow one-to-many and many-to-many transmission of information; supports PIM, Sparse Mode (SM)
- **Internet Group Management Protocol (IGMP)**  
Utilizes Any-Source Multicast (ASM) to manage IPv4 multicast networks; supports IGMPv1, v2, and v3

## Overview

### Additional information

- **Green initiative support**  
Provides support for RoHS and WEEE regulations

### Warranty and support

- **5-year Warranty**  
See <http://www.hpe.com/networking/warrantysummary> for warranty and support information included with your product purchase.
- **Software releases**  
To find software for your product refer to <http://www.hpe.com/networking/support>; for details on the software releases available with your product purchase, refer to <http://www.hpe.com/networking/warrantysummary>.

## Configuration

**Build To Order:** BTO is a standalone unit with no integration. BTO products ship standalone are not part of a CTO or Rack-Shippable solution.

### Standard Switch Enclosures

Aruba 8325-48Y8C 48p 25G SFP+/28 8p 100G QSFP+/28 Front-to-Back 6 Fans and 2 PSU Bundle	JL624A
<ul style="list-style-type: none"> <li>• Includes 2 FB Power Supplies (JL632A) with no additional open PS slots</li> <li>• Includes 6 FB Fan Tray Bundles (JL628A) with no additional open FT Slots</li> <li>• Min=0 \ Max= 48 SFP+/SFP28 10/25G Transceivers</li> <li>• Min=0 \ Max = 8 QSFP+/QSFP28 40/100G Transceivers</li> <li>• 1U - Height</li> </ul>	See Configuration <b>NOTE: 2, 3, 4, 5, 6</b>
PDU Cable NA/MEX/TW/JP	JL624A#B2B
<ul style="list-style-type: none"> <li>• C13 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	JL624A#B2C
<ul style="list-style-type: none"> <li>• C13 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch/Router to Wall Power Cord	JL624A#B2E
<ul style="list-style-type: none"> <li>• HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A)</li> </ul>	
No Power Cord	JL624A#AC3
<ul style="list-style-type: none"> <li>• No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P)</li> </ul>	
Aruba 8325-48Y8C 48p 25G SFP+/28 8p 100G QSFP+/28 Back-to-Front 6 Fans and 2 PSU Bundle	JL625A
<ul style="list-style-type: none"> <li>• Includes 2 BF Power Supplies (JL633A) with no additional open PS slots</li> <li>• Includes 6 BF Fan Tray Bundles (JL629A) with no additional open FT Slots</li> <li>• Min=0 \ Max= 48 SFP+/SFP28 10/25G Transceivers</li> <li>• Min=0 \ Max = 8 QSFP+/QSFP28 40/100G Transceivers</li> <li>• 1U - Height</li> </ul>	See Configuration <b>NOTE: 2, 3, 4, 5, 6</b>
PDU Cable NA/MEX/TW/JP	JL625A#B2B
<ul style="list-style-type: none"> <li>• C13 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	JL625A#B2C
<ul style="list-style-type: none"> <li>• C13 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch/Router to Wall Power Cord	JL625A#B2E
<ul style="list-style-type: none"> <li>• HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A)</li> </ul>	
No Power Cord	JL625A#AC3
<ul style="list-style-type: none"> <li>• No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P)</li> </ul>	
Aruba 8325-32C 32-port 100G QSFP+/QSFP28 Front-to-Back 6 Fans and 2 Power Supply Bundle	JL626A
<ul style="list-style-type: none"> <li>• Includes 2 FB Power Supplies (JL632A) with no additional open PS slots</li> <li>• Includes 6 FB Fan Tray Bundles (JL630A) with no additional open FT Slots</li> <li>• Min=0 \ Max = 32 QSFP+/QSFP28 40/100G Transceivers</li> </ul>	See Configuration <b>NOTE: 4, 5, 6</b>

## Configuration

<ul style="list-style-type: none"> <li>1U - Height</li> </ul>	
PDU Cable NA/MEX/TW/JP	JL626A#B2B
<ul style="list-style-type: none"> <li>C13 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	JL626A#B2C
<ul style="list-style-type: none"> <li>C13 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch/Router to Wall Power Cord	JL626A#B2E
<ul style="list-style-type: none"> <li>HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A)</li> </ul>	
No Power Cord	JL626A#AC3
<ul style="list-style-type: none"> <li>No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P)</li> </ul>	
Aruba 8325-32C 32-port 100G QSFP+/QSFP28 Back-to-Front 6 Fans and 2 Power Supply Bundle	JL627A
<ul style="list-style-type: none"> <li>Includes 2 BF Power Supplies (JL633A) with no additional open PS slots</li> <li>Includes 6 BF Fan Tray Bundles (JL631A) with no additional open FT Slots</li> <li>Min=0 \ Max = 32 QSFP+/QSFP28 40/100G Transceivers</li> <li>1U - Height</li> </ul>	See Configuration <b>NOTE: 4, 5, 6</b>
PDU Cable NA/MEX/TW/JP	JL627A#B2B
<ul style="list-style-type: none"> <li>C13 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	JL627A#B2C
<ul style="list-style-type: none"> <li>C13 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch/Router to Wall Power Cord	JL627A#B2E
<ul style="list-style-type: none"> <li>HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A)</li> </ul>	
No Power Cord	JL627A#AC3
<ul style="list-style-type: none"> <li>No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P)</li> </ul>	

### Configuration Rules:

<b>Note 2</b>	<b>The following Transceivers install into this Switch: (Use BTO only when adding to switch)</b>	
	Aruba 10GBASE-T SFP+ RJ45 30m Cat6A Transceiver	JL563A
	Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9150D
	Aruba 10G SFP+ LC LR 10km SMF Transceiver	J9151D
	Aruba 10G SFP+ LC ER 40km SMF Transceiver	J9153D
	Aruba 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281D
	Aruba 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283D
<b>Note 3</b>	<b>The following Transceivers install into this Switch: (Use BTO only when adding to switch)</b>	
	Aruba 25G SFP28 LC SR 100m MMF Transceiver	JL484A
	Aruba 25G SFP28 LC eSR 400m MMF Transceiver	JL485A
	Aruba 25G SFP28 LC LR 10km SMF Transceiver	JL486A
	Aruba 25G SFP28 to SFP28 0.65m Direct Attach Cable	JL487A
	Aruba 25G SFP28 to SFP28 3m Direct Attach Copper Cable	JL488A



## Configuration

Aruba 25G SFP28 to SFP28 5m Direct Attach Copper Cable JL489A

**Note 4** The following Transceivers install into this Switch: (Use BTO only when adding to switch)

Aruba 40G QSFP+ LC ER4 40km SMF Transceiver	Q9G82A
HPE X142 40G QSFP+ MPO SR4 Transceiver	JH231A
HPE X142 40G QSFP+ LC LR4 SM Transceiver	JH232A
HPE X142 40G QSFP+ MPO eSR4 300M Transceiver	JH233A
Aruba 40G QSFP+ LC Bidirectional 150m MMF 2-strand Transceiver	JL308A
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

**Note 5** The following Transceivers install into this Switch: (Use BTO only when adding to switch)

Aruba 100G QSFP28 MPO SR4 100m 12-fiber MPO OM3 MMF Transceiver	JL309A
Aruba 100G QSFP28 LC LR4 10km SMF 2-strand Transceiver	JL310A
Aruba 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable	JL307A

**Note 6** Localization required on orders without #B2B, #B2C, #B2E or #AC3 options.

### Remarks:

Drop down under power supply should offer the following options and results:  
 Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C ROW. (Watson Default B2B or B2C for Rack Level CTO)  
 Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO)  
 High Volt Switch/Router/Power Supply to Wall Power Cord - #B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)  
 No Power Cord - #AC3 Option

OCA Blue **NOTE:** Locking Power Cord (J9955A) L6-20P is available through the OCA Accessories tab

OCA Only Model Selection Form -  
 HPE Offering > Aruba > Switches - ArubaOS:  
 Aruba 8325 Switch Series

## Rack Level Integration CTO Models

Aruba 8325-48Y8C 48p 25G SFP+/28 8p 100G QSFP+/28 Front-to-Back 6 Fans and 2 PSU Bundle

- Includes 2 FB Power Supplies (JL632A) with no additional open PS slots
- Includes 6 FB Fan Tray Bundles (JL628A) with no additional open FT Slots
- Must select 4 Post Rack Kit
- Min=0 \ Max= 48 SFP+/SFP28 10/25G Transceivers
- Min=0 \ Max = 8 QSFP+/QSFP28 40/100G Transceivers
- 1U - Height

JL624A

See Configuration

**NOTE: 2, 3, 4, 5, 6, 7**

PDU Cable NA/MEX/TW/JP

- C13 PDU Jumper Cord (NA/MEX/TW/JP)

JL624A#B2B

PDU Cable ROW

JL624A#B2C

## Configuration

<ul style="list-style-type: none"> <li>• C13 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch/Router to Wall Power Cord	JL624A#B2E
<ul style="list-style-type: none"> <li>• HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A)</li> </ul>	
No Power Cord	JL624A#AC3
<ul style="list-style-type: none"> <li>• No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P)</li> </ul>	
Aruba 8325-48Y8C 48p 25G SFP+/28 8p 100G QSFP+/28 Back-to-Front 6 Fans and 2 PSU Bundle	JL625A
<ul style="list-style-type: none"> <li>• Includes 2 BF Power Supplies (JL633A) with no additional open PS slots</li> <li>• Includes 6 BF Fan Tray Bundles (JL629A) with no additional open FT Slots</li> <li>• Must select 4 Post Rack Kit</li> <li>• Min=0 \ Max= 48 SFP+/SFP28 10/25G Transceivers</li> <li>• Min=0 \ Max = 8 QSFP+/QSFP28 40/100G Transceivers</li> <li>• 1U - Height</li> </ul>	See Configuration <b>NOTE: 2, 3, 4, 5, 6, 7</b>
PDU Cable NA/MEX/TW/JP	JL625A#B2B
<ul style="list-style-type: none"> <li>• C13 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	JL625A#B2C
<ul style="list-style-type: none"> <li>• C13 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch/Router to Wall Power Cord	JL625A#B2E
<ul style="list-style-type: none"> <li>• HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A)</li> </ul>	
No Power Cord	JL625A#AC3
<ul style="list-style-type: none"> <li>• No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P)</li> </ul>	
Aruba 8325-32C 32-port 100G QSFP+/QSFP28 Front-to-Back 6 Fans and 2 Power Supply Bundle	JL626A
<ul style="list-style-type: none"> <li>• Includes 2 FB Power Supplies (JL632A) with no additional open PS slots</li> <li>• Includes 6 FB Fan Tray Bundles (JL630A) with no additional open FT Slots</li> <li>• Must select 4 Post Rack Kit</li> <li>• Min=0 \ Max = 32 QSFP+/QSFP28 40/100G Transceivers</li> <li>• 1U - Height</li> </ul>	See Configuration <b>NOTE: 4, 5, 6, 7</b>
PDU Cable NA/MEX/TW/JP	JL626A#B2B
<ul style="list-style-type: none"> <li>• C13 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	JL626A#B2C
<ul style="list-style-type: none"> <li>• C13 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch/Router to Wall Power Cord	JL626A#B2E
<ul style="list-style-type: none"> <li>• HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A)</li> </ul>	
No Power Cord	JL626A#AC3
<ul style="list-style-type: none"> <li>• No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P)</li> </ul>	
Aruba 8325-32C 32-port 100G QSFP+/QSFP28 Back-to-Front 6 Fans and 2 Power Supply Bundle	JL627A

## Configuration

- Includes 2 BF Power Supplies (JL633A) with no additional open PS slots
- Includes 6 BF Fan Tray Bundles (JL631A) with no additional open FT Slots
- Must select 4 Post Rack Kit
- Min=0 \ Max = 32 QSFP+/QSFP28 40/100G Transceivers
- 1U - Height

See Configuration  
**NOTE:** 4, 5, 6, 7

PDU Cable NA/MEX/TW/JP	JL627A#B2B
<ul style="list-style-type: none"> <li>• C13 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	JL627A#B2C
<ul style="list-style-type: none"> <li>• C13 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch/Router to Wall Power Cord	JL627A#B2E
<ul style="list-style-type: none"> <li>• HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A)</li> </ul>	
No Power Cord	JL627A#AC3
<ul style="list-style-type: none"> <li>• No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P)</li> </ul>	

### Configuration Rules:

**Note 2**      The following Transceivers install into this Switch: (Use BTO only when adding to switch)

Aruba 10GBASE-T SFP+ RJ45 30m Cat6A Transceiver	JL563A
Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9150D
Aruba 10G SFP+ LC LR 10km SMF Transceiver	J9151D
Aruba 10G SFP+ LC ER 40km SMF Transceiver	J9153D
Aruba 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281D
Aruba 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283D

**Note 3**      The following Transceivers install into this Switch: (Use BTO only when adding to switch)

Aruba 25G SFP28 LC SR 100m MMF Transceiver	JL484A
Aruba 25G SFP28 LC eSR 400m MMF Transceiver	JL485A
Aruba 25G SFP28 LC LR 10km SMF Transceiver	JL486A
Aruba 25G SFP28 to SFP28 0.65m Direct Attach Cable	JL487A
Aruba 25G SFP28 to SFP28 3m Direct Attach Copper Cable	JL488A
Aruba 25G SFP28 to SFP28 5m Direct Attach Copper Cable	JL489A

**Note 4**      The following Transceivers install into this Switch: (Use BTO only when adding to switch)

Aruba 40G QSFP+ LC ER4 40km SMF Transceiver	Q9G82A
HPE X142 40G QSFP+ MPO SR4 Transceiver	JH231A
HPE X142 40G QSFP+ LC LR4 SM Transceiver	JH232A
HPE X142 40G QSFP+ MPO eSR4 300M Transceiver	JH233A
Aruba 40G QSFP+ LC Bidirectional 150m MMF 2-strand Transceiver	JL308A
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

## Configuration

- Note 5** The following Transceivers install into this Switch: (Use BTO only when adding to switch)
- |   |        |
|---|--------|
| Aruba 100G QSFP28 MPO SR4 100m 12-fiber MPO OM3 MMF Transceiver | JL309A |
| Aruba 100G QSFP28 LC LR4 10km SMF 2-strand Transceiver          | JL310A |
| Aruba 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable       | JL307A |
- Note 6** Localization required on orders without #B2B, #B2C, #B2E or #AC3 options.
- Note 7** If the CTO Switch Chassis needs to be racked, Then the CTO Base Model needs to integrate (with #0D1) to the HPE Network Rack.
- Remarks:**
- Drop down under power supply should offer the following options and results:  
 Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C ROW. (Watson Default B2B or B2C for Rack Level CTO)  
 Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO)  
 High Volt Switch/Router/Power Supply to Wall Power Cord - #B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)  
 No Power Cord - #AC3 Option
- OCA Blue **NOTE:** Locking Power Cord (J9955A) L6-20P is available through the OCA Accessories tab

## Transceivers

### SFP+ Transceivers

Aruba 10GBASE-T SFP+ RJ45 30m Cat6A Transceiver	JL563A
<b>NOTE:</b> Up to qty 12 can be ordered for JL624A/JL625A in Ports 1-17	
<b>NOTE:</b> A maximum qty of 12 XCVRs (JL563A) can be installed into ports 1-17 within the following Switches: JL624A, JL625A	
Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9150D
Aruba 10G SFP+ LC LR 10km SMF Transceiver	J9151D
Aruba 10G SFP+ LC ER 40km SMF Transceiver	J9153D
Aruba 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281D
Aruba 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283D

### SFP28 Transceivers

Aruba 25G SFP28 LC SR 100m MMF Transceiver	JL484A
Aruba 25G SFP28 LC eSR 400m MMF Transceiver	JL485A
Aruba 25G SFP28 LC LR 10km SMF Transceiver	JL486A
Aruba 25G SFP28 to SFP28 0.65m Direct Attach Cable	JL487A
Aruba 25G SFP28 to SFP28 3m Direct Attach Copper Cable	JL488A
Aruba 25G SFP28 to SFP28 5m Direct Attach Copper Cable	JL489A

### QSFP+ Transceivers

Aruba 40G QSFP+ LC ER4 40km SMF Transceiver	Q9G82A
HPE X142 40G QSFP+ MPO SR4 Transceiver	JH231A
HPE X142 40G QSFP+ LC LR4 SM Transceiver	JH232A

## Configuration

HPE X142 40G QSFP+ MPO eSR4 300M Transceiver	JH233A
Aruba 40G QSFP+ LC Bidirectional 150m MMF 2-strand Transceiver	JL308A
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

### QSFP28 Transceivers

Aruba 100G QSFP28 MPO SR4 100m 12-fiber MPO OM3 MMF Transceiver	JL309A
Aruba 100G QSFP28 LC LR4 10km SMF 2-strand Transceiver	JL310A
Aruba 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable	JL307A

## Switch Options

### Rack Mount Kits

For 8325 System (std 0 // max 1) User Selection (min 0 // max 1) per enclosure

Aruba X472 2-post Rack Kit JL482B

Aruba X474 4-post Rack Kit JL483B

See Configuration

**NOTE: 1**

### Configuration Rules:

**Note 1** If the switch will be factory racked into an HPE Universal Rack, then (Min 1) of the 4 Post Rack Mount kit is required.

## Accessories

### Spare Items

System (std 0 // max 99) User Selection (min 0 // max 99) per enclosure

Aruba 8325 650W 100-240VAC Front-to-Back Power Supply JL632A  
 • includes 1 x c13, 650w See Configuration  
**NOTE: 1**

PDU Cable NA/MEX/TW/JP JL632A #B2B  
 • C13 PDU Jumper Cord (NA/MEX/TW/JP)

PDU Cable ROW JL632A #B2C  
 • C13 PDU Jumper Cord (ROW)

High Volt Switch/Router to Wall Power Cord JL632A #B2E  
 • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A)

No Power Cord JL632A #AC3  
 • No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P)

## Configuration

Aruba 8325 650W 100-240VAC Back-to-Front Power Supply	JL633A
<ul style="list-style-type: none"> <li>includes 1 x c13, 650w</li> </ul>	See Configuration <b>NOTE: 1</b>
PDU Cable NA/MEX/TW/JP	JL633A #B2B
<ul style="list-style-type: none"> <li>C13 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	JL633A #B2C
<ul style="list-style-type: none"> <li>C13 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch/Router to Wall Power Cord	JL633A #B2E
<ul style="list-style-type: none"> <li>HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A)</li> </ul>	
No Power Cord	JL633A #AC3
<ul style="list-style-type: none"> <li>No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P)</li> </ul>	
Aruba 8325-48Y8C Front-to-Back Fan	JL628A
Aruba 8325-48Y8C Back-to-Front Fan	JL629A
Aruba 8325-32C Front-to-Back Fan	JL630A
Aruba 8325-32C Back-to-Front Fan	JL631A
Aruba X472 2-post Rack Kit	JL482B
Aruba X474 4-post Rack Kit	JL483B

### Configuration Rules:

**Note 1** Localization required on orders without #B2B, #B2C, #B2E or #AC3 options.

### Remarks:

Drop down under power supply should offer the following options and results:  
 Switch/Router to PDU Power Cord - #B2B in NA, Mexico, Taiwan, and Japan or #B2C ROW. (Watson Default B2B or B2C for Rack Level CTO)  
 Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO)  
 High Volt Switch/Router/Power Supply to Wall Power Cord - #B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)  
 No Localized Power Cord Selected - #AC3 Option

OCA Blue **NOTE:** Locking Power Cord (J9955A) L6-20P is available in the Accessories tab

OCA Blue **NOTE:** 2 Power Supply is included with the Switch Bundle

## Technical Specifications

### Standards and protocols (applies to all products in series)

- IEEE 802.1AB-2009
- IEEE 802.1ak-2007
- IEEE 802.1t-2001
- IEEE 802.1AX-2008 Link Aggregation
- IEEE 802.1p Priority
- 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 802.3ae 10-Gigabit Ethernet
- IEEE 802.3ba 40 and 100 Gigabit Ethernet Architecture
- IEEE 802.3z 1000BASE-X
- 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 defining traps for use with the SNMP
- RFC 1256 ICMP Router Discovery Messages
- RFC 1393 Traceroute Using an IP Option
- RFC 1591 Domain Name System Structure and Delegation
- 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 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 3509 Alternative Implementations of OSPF Area Border Routers
- RFC 3623 Graceful OSPF Restart
- RFC 4486 Subcodes for BGP Cease Notification Message
- RFC 4724 Graceful Restart Mechanism for BGP
- RFC 4940 IANA Considerations for OSPF
- RFC 5187 OSPFv3 Graceful Restart

## Technical Specifications

- RFC 6987 OSPF Stub Router Advertisement
  - RFC 7047 The Open vSwitch Database Management Protocol
  - RFC 4251 The Secure Shell (SSH) Protocol
  - RFC 4271 A Border Gateway Protocol 4 (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)
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## Accessories

### Bundles and Accessories

#### Aruba 8320 Bundles

Aruba 8325-48Y8C 48p 25G SFP+/28 8p 100G QSFP+/28 Front-to-Back 6 Fans and 2 PSU Bundle	JL624A
Aruba 8325-48Y8C 48p 25G SFP+/28 8p 100G QSFP+/28 Back-to-Front 6 Fans and 2 PSU Bundle	JL625A
Aruba 8325-32C 32-port 100G QSFP+/QSFP28 Front-to-Back 6 Fans and 2 Power Supply Bundle	JL626A
Aruba 8325-32C 32-port 100G QSFP+/QSFP28 Back-to-Front 6 Fans and 2 Power Supply Bundle	JL627A

#### Accessories

Aruba 8325-48Y8C Front-to-Back Fan	JL628A
Aruba 8325-48Y8C Back-to-Front Fan	JL629A
Aruba 8325-32C Front-to-Back Fan	JL630A
Aruba 8325-32C Back-to-Front Fan	JL631A

#### Power supply

Aruba 8325 650W 100-240VAC Front-to-Back Power Supply	JL632A
Aruba 8325 650W 100-240VAC Back-to-Front Power Supply	JL633A

#### Mounting kit

Aruba X472 2-post Rack Kit	JL482A
Aruba X474 4-post Rack Kit	JL483A

#### Console cable

Aruba X2C2 RJ45 to DB9 Console Cable	JL448A
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#### Transceivers

Aruba 1G SFP LC SX 500m OM2 MMF Transceiver	J4858D
Aruba 1G SFP LC LX 10km SMF Transceiver	J4859D
Aruba 1G SFP LC LH 70km SMF Transceiver	J4860D
Aruba 1G SFP RJ45 T 100m Cat5e Transceiver	J8177D
Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9150D
Aruba 10G SFP+ LC LR 10km SMF Transceiver	J9151D
Aruba 10G SFP+ LC ER 40km SMF Transceiver	J9153D
Aruba 10GBASE-T SFP+ RJ45 30m Cat6A Transceiver	JL563A
Aruba 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281D
Aruba 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283D
Aruba 40G QSFP+ LC Bidirectional 150m MMF 2-strand Transceiver	JL308A
Aruba 40G QSFP+ LC ER4 40km SMF Transceiver	K9G82A
Aruba 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable	JL307A
Aruba 100G QSFP28 MPO SR4 100m 12-fiber MPO OM3 MMF Transceiver	JL309A
Aruba 100G QSFP28 LC LR4 100m SMF 2-strand Transceiver	JL310A
HPE X142 40G QSFP+ MPO SR4 Transceiver	JH231A
HPE X142 40G QSFP+ LC LR4 SM Transceiver	JH232A
HPE X142 40G QSFP+ MPO eSR4 300M Transceiver	JH233A
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

## Accessories

**NOTE:** 8325 Series Switches do not support the use of 10G LRM ( J9152D), nor 7M 10G DAC ( J9285

<sup>1</sup> Maximum of 12 10GBASE-T transceivers in Model JL479A (n/a to other 8325 models)

<sup>2</sup>Available in CY18Q2

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## Summary of Changes

Date	Version History	Action	Description of Change
05-Dec-2018	Version 2	Changed	Transceivers updated on the Accessories section
03-Dec-2018	Version 1	Created	Document Creation



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