DATA SHEET

ARUBA CX 8325 SWITCH SERIES
High Performance Enterprise Campus and Data Center Switch

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

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

PRODUCT DIFFERENTIATORS

AOS-CX - a modern software system
The Aruba CX 8325 Switch Series is based on AOS-CX, a modern, database-driven operating system that automates and simplifies many critical and complex network tasks. A built-in time series database enables customers and developers to utilize software scripts for historical troubleshooting, as well as analysis of past trends. This helps predict and avoid future problems due to scale, security, and performance bottlenecks.

Our AOS-CX software also includes Aruba Network Analytics Engine (NAE) and support for Aruba NetEdit. Because AOS-CX 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

KEY FEATURES

• High performance 6.4Tbps with 2,000 Mpps
• High availability with industry-leading VSX redundancy, and redundant power supplies and fans
• Designed for core/aggregation in the campus or Top of Rack or End of Row in the data center
• AOS-CX 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 Aruba Network Analytics Engine
• One touch deployment with the Aruba CX Mobile App
• Aruba NetEdit support for automated configuration and verification
• Compact 1U switch with 1/10/25GbE and 40/100GbE connectivity

• 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

Aruba Network Analytics Engine
For enhanced visibility and troubleshooting, Aruba’s Network Analytics Engine (NAE) automatically interrogates and analyzes events that can impact a networks health. Advanced telemetry and automation provide the ability to easily identify and troubleshoot network, system, application and security related issues easily, through the use of python agents and REST APIs.
The Time Series Database (TSDB) stores configuration and operational state data, making it available to quickly resolve network issues. The data may also be used to analyze trends, identify anomalies and predict future capacity requirements.

**Aruba NetEdit – automated switch configuration and management**

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

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

*Note: A separate software license is required to use Aruba NetEdit.*

**Aruba CX Mobile App – unparalleled deployment convenience**

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

**Aruba Virtual Switching Extension**

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

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

- Continuous configuration synchronization via AOS-CX
- Flexible active-active network designs at Layers 2 and 3
- Operational simplicity and usability for easy configuration
- High availability by design during upgrades including support for VSX Live Upgrade with LACP traffic draining.

**PRODUCT CAPABILITIES**

**Performance**

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

- **Scalable system design**
  Provides investment protection to support future technologies and higher-speed connectivity

**Connectivity**

- **High-density port options**
  - 32 ports of 40GbE/100GbE (QSFP+/QSFP28), or
  - 48 ports of 1GbE/10GbE/25GbE (SFP/SFP+/SFP28) and 8 ports of 40GbE/100GbE (QSFP+/QSFP28) SFP+ ports (with an optional 10GBASE-T transceiver)

- **Jumbo frames**
  Supports high-performance backups and disaster-recovery systems; provides a maximum frame size of 9K bytes

- **Packet storm protection**
  Protects against unknown broadcast, multicast, or unicast storms with user-defined thresholds

**Quality of Service (QoS)**

Supports the following congestion actions: strict priority (SP) queuing and Deficit Weighted Round Robin (DWRR)

- **Data Center Bridging (DCB)**
  Supports lossless Ethernet networking standard PFC, ETS and DCBX support.

**Resiliency and high availability**

- **Aruba 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.

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, each with eight links per LAG, with a user-selectable hashing algorithm.

Redundant power supplies
Provides N+1 high reliability with hot swappable, redundant power supplies.

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 modules without any operational impact on other modules.

Separate data and control paths
Separates control from services and keeps service processing isolated; increases security and performance.

Management
In addition to the Aruba CX Mobile App, Aruba NetEdit and Aruba Network Analytics Engine, the 8325 series offers the following:

- Built-in programmable and easy to use REST API interface
- Management interface control
  Enables or disables each of the following interfaces depending on security preferences: console port, or reset button
- Industry-standard CLI with a hierarchical structure
  Reduces training time and expenses, and increases productivity in multivendor installations
- Management security
  Restricts access to critical configuration commands; offers multiple privilege levels with password protection; ACLs provide SNMP access; local and remote Syslog capabilities allow logging of all access
- IPSLA
  - Monitors the network for degradation of various services, including voice
  - Monitoring is enabled via the NAE for history and for automated gathering of additional information when anomalies are detected

SNMP v2c/v3
Provides SNMP read and trap support of industry standard Management Information Base (MIB), and private extensions.

sFlow (RFC 3176)
Provides scalable ASIC-based wire speed network monitoring and accounting with no impact on network performance; this allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes.

Remote monitoring (RMON)
Uses standard SNMP to monitor essential network functions and supports events, alarms, history, and statistics groups as well as a private alarm extension group.

TFTP and SFTP support
- Offers different mechanisms for configuration updates; trivial FTP (TFTP) allows bidirectional transfers over a TCP/IP network
- Secure File Transfer Protocol (SFTP) runs over an SSH tunnel to provide additional security.

Debug and sampler utility
Supports ping and traceroute for IPv4 and IPv6.

Network Time Protocol (NTP)
- Synchronizes timekeeping among distributed time servers and clients; keeps timekeeping consistent among all clock-dependent devices within the network
- Can serve as the NTP server in a customer network.

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
Advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications.

Dual flash images
Provides independent primary and secondary operating system files for backup while upgrading.

Multiple configuration files
Stores files easily to the flash image.

Layer 2 Switching

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

- VLAN Translation
  Remaps VLANs during transit across a core network.

- Static VXLAN
  Supports static VXLAN. Allows operators to manually connect two or more VXLAN tunnel endpoints (VTEP).
• Dynamic VXLAN with BGP-EVPN
  Deep segmentation for Spine/Leaf data center networks or Layer 3 campus designs
• 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
  Supports directed broadcast on configured network subnets
• Dynamic Host Configuration Protocol (DHCP)
  - DHCP services are offered within a client network to simplify network management
  - DHCP Relay enables DHCP operation across subnets
• DHCP Server
  Supports DHCP services (for IPv4 and IPv6) in customer networks
• 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 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
• 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
• Generic Routing Encapsulation (GRE)
  Enables tunneling traffic from site to site over a Layer 3 path

Security
• TAA Compliance
  The Aruba CX 8325 with AOS-CX, a TAA compliant product, uses FIPS 140-2 validated cryptography for protection of sensitive information
- **Access control list (ACL) Features**
  - Supports powerful ACLs for both IPv4 and IPv6. Supports creation of object groups representing sets of devices like IP addresses. For instance, IT management devices could be grouped in this way.
  - ACLs can also protect control plane services such as SSH, SNMP, NTP or web servers.
- **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**
  - AOS-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
- **Internet Group Management Protocol (IGMP)**
  Enables establishing multicast group memberships in IPv4 networks; supports IGMPv1, v2, and v3.
- **Anycast RP**
  Two or more RPs configured with same /32 Host IP address on loopback interfaces. All the downstream routers will be configured to point to Anycast RP address for multicast routes. Device will automatically select the closest RP for each source and receiver. If equal costs routes exist, the process of registering the sources will be shared equally by all the RPs in the network.
- **MSDP Mesh Groups**
  MSDP used for Anycast RP is an intradomain feature that provides redundancy and load-sharing capabilities. When MSDP mesh groups are used, SA messages are not flooded to other mesh group peers. When MSDP peer in group receives SA message from another MSDP peer in the group, it assumes that this SA message was sent to all the other MSDP peers in the group. It also eliminates RPF checks on arriving SA messages. With MSDP mesh group configured, SA messages are always accepted from mesh group peer.
- **PIM-Dense Mode**
  Floods multicast traffic to every corner of the network (push-model). Method is for delivering data to receivers without receivers requesting the data. Can be efficient in certain deployments in which there are active receivers on every subnet in the network. Branches without downstream receivers are pruned from the forwarding trees.
- **FastLeave (FL) and Forced-FastLeave (FFL)**
  for IGMP FL and FFL for IGMP/MLD speed up the process of blocking unnecessary Multicast traffic to a switch port that is connected to end nodes. They help to eliminate the CPU overhead of having to generate an IGMP/MLD Group-Specific Query message.
- **Support for Microsoft Network Load Balancer (NLB)**
  for server applications.
- **Multicast Service Delivery Protocol (MSDP)**
  Efficiently routes multicast traffic through core networks.
- **IGMP/MLD Snooping**
  Prevent flooding of multicast traffic to non-listening ports.
- **Protocol Independent Multicast (PIM)**
  Protocol Independent Multicast for IPv4 and IPv6 supports one-to-many and many-to-many media casting use cases such as IPTV over IPv4 and IPv6 networks. Support for PIM Sparse Mode (PIM-SM, IPv4 and IPv6).

### Additional information
- **Green initiative support**
  Provides support for RoHS (EN 50581:2012) regulations.

### Warranty, services and support
- **Limited Lifetime Warranty**
- **For Software Releases and Documentation, refer to [https://asp.arubanetworks.com/downloads](https://asp.arubanetworks.com/downloads)**
- **For support and services information, visit [https://www.arubanetworks.com/support-services/arubacare/](https://www.arubanetworks.com/support-services/arubacare/)**
## SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>JL624A: 8325-48Y8C, 6 fans, front-to-back, 2 power supplies</th>
<th>JL625A: 8325-48Y8C, 6 fans, back-to-front, 2 power supplies</th>
<th>JL626A: 8325-32C, 6 fans, front-to-back, 2 power supplies</th>
<th>JL627A: 8325-32C, 6 fans, back-to-front, 2 power supplies</th>
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<tbody>
<tr>
<td>Supports</td>
<td>48 ports of 1G/10G/25GbE (SFP/SFP+/SFP28) and 8 ports of 40G/100GbE (QSFP+/QSFP28) SFP+ ports (with an optional 10GBASE-T transceiver)</td>
<td>48 ports of 1G/10G/25GbE (SFP/SFP+/SFP28) and 8 ports of 40G/100GbE (QSFP+/QSFP28) SFP+ ports (with an optional 10GBASE-T transceiver)</td>
<td>32 ports of 40G/100GbE (QSFP+/QSFP28)</td>
<td>32 ports of 40G/100GbE (QSFP+/QSFP28)</td>
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<tr>
<td>Fans</td>
<td>Field-replaceable, hot-swappable, and up to 6 fans. Bundles (JL624A, JL625A, JL626A, and JL627A) include 6 fans.</td>
<td></td>
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</tr>
<tr>
<td>Physical characteristics</td>
<td>Dimensions</td>
<td>Dimensions</td>
<td>Dimensions</td>
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<tr>
<td></td>
<td>(H) 4.35 cm x (W) 43.84 cm x (D) 53.6 cm (1.71&quot; x 17.26&quot; x 21.1&quot;)</td>
<td>(H) 4.35 cm x (W) 43.84 cm x (D) 53.6 cm (1.71&quot; x 17.26&quot; x 21.1&quot;)</td>
<td>(H) 4.395 cm x (W) 44.25 cm x (D) 47.3 cm (1.73&quot; x 17.42&quot; x 18.62&quot;)</td>
<td>(H) 4.395 cm x (W) 44.25 cm x (D) 47.3 cm (1.73&quot; x 17.42&quot; x 18.62&quot;)</td>
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<tr>
<td>Full configuration weight</td>
<td>10 kg (22.05 lb)</td>
<td>10 kg (22.05 lb)</td>
<td>10.87 kg (23.96 lb)</td>
<td>10.87 kg (23.96 lb)</td>
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<tr>
<td>Additional specifications</td>
<td>CPU</td>
<td>2.2GHz</td>
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<tr>
<td></td>
<td>Memory, Drive and Flash</td>
<td>16GB RAM, 64GB SSD, 8GB Flash</td>
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<tr>
<td></td>
<td>Packet Buffer</td>
<td>32MB</td>
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<tr>
<td>Performance*</td>
<td>Switching Capacity</td>
<td>6.4Tbps</td>
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<td>IPv4 Host Table</td>
<td>120,000</td>
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<td>IPv6 Host Table</td>
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<td></td>
<td>IPv4 Unicast Routes</td>
<td>131,072</td>
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<td>IPv6 Unicast Routes</td>
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<td>MAC Table Size</td>
<td>98,304</td>
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<td></td>
<td>IGMP Groups</td>
<td>4,094</td>
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<td>MLD Groups</td>
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<td></td>
<td>IPv4 Multicast Routes</td>
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<td></td>
<td>IPv6 Multicast Routes</td>
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<tr>
<td>Environment</td>
<td>Operating temperature</td>
<td>0°C to 40°C (32°F to 104°F) up to 3.0 km (10,000 ft.)</td>
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<tr>
<td></td>
<td>Operating relative humidity</td>
<td>5% to 95% at 40°C (104°F) non-condensing</td>
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<td></td>
<td>Non-Operating</td>
<td>-40°C to 70°C (-40°F to 158°F) up to 4.6 km (15,000 ft.)</td>
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<td></td>
<td>Non-Operating/Storage relative humidity</td>
<td>5% to 95% @ 65°C (149°F)</td>
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<tr>
<td></td>
<td>Max operating altitude</td>
<td>Up to 10,000 ft (3.048 km)</td>
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<td></td>
<td>Max non-operating</td>
<td>Up to 15,000 ft (4.6km)</td>
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<td></td>
<td>Primary airflow</td>
<td>Front-to-Back or Back-to-Front</td>
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* Some of these scaling numbers assume shared tables.
### SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>JL624A: 8325-48Y8C, 6 fans, front-to-back, 2 power supplies</th>
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<th>JL626A: 8325-32C, 6 fans, front-to-back, 2 power supplies</th>
<th>JL627A: 8325-32C, 6 fans, back-to-front, 2 power supplies</th>
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<tr>
<td><strong>Electrical characteristics</strong></td>
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<tr>
<td>Frequency</td>
<td>50-60Hz</td>
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<td>AC Voltage</td>
<td>100-240 volts</td>
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<td>Current</td>
<td>6A (low voltage) – 3A (high voltage)</td>
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<td>Power consumption</td>
<td>Max: 550W</td>
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<td>IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013</td>
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<td><strong>Management</strong></td>
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<td>SNMP</td>
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<td>RJ-45 serial</td>
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<td>USB micro USB console</td>
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<tr>
<td>RJ-45 Ethernet port</td>
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<tr>
<td><strong>Mounting and enclosure</strong></td>
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<tr>
<td>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</td>
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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 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 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 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 5187 OSPFv3 Graceful Restart
- RFC 5701 IPv6 Address Specific BGP Extended Community Attribute
- RFC 6987 OSPF Stub Router Advertisement
- RFC 7047 The Open vSwitch Database Management Protocol
- RFC 7059 A Comparison of IPv6-over-IPv4 Tunnel Mechanisms
- RFC 7313 Enhanced Route Refresh Capability for BGP-4
- RFC 8201 Path MTU Discovery for IP version 6
BUNDLES AND ACCESSORIES

Aruba CX 8325 Bundles

Note: Mounting kit and console cable are not included in bundles. Order separately. Mounting kit is required.

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

Mounting kit (required when ordering a bundle)
• JL482B 2-post Rack Kit
• JL483B 4-post Rack Kit

Console Cable
• Aruba X2C2 RJ45 to DB9 Console Cable (JL448A)

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

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

1G Transceivers
• Aruba 1G SFP LC SX 500m 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)

10G Transceivers and Cables
• Aruba 10G SFP+ to SFP+ 1m Direct Attach Copper Cable (J9281D)
• Aruba 10G SFP+ to SFP+ 3m Direct Attach Copper Cable (J9283D)

25G Transceivers and Cables
• 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 Copper Cable (JL487A)
• Aruba 25G SFP28 to SFP28 3m Direct Attach Copper Cable (JL488A)
• Aruba 25G SFP28 to SFP28 5m Direct Attach Copper Cable (JL489A)
• Aruba 25G SFP28 to SFP28 3m Active Optical Cable (ROM44A)
• Aruba 25G SFP28 to SFP28 7m Active Optical Cable (ROM45A)
• Aruba 25G SFP28 to SFP28 15m Active Optical Cable (ROM21A)

40G Transceivers and Cables
• Aruba 40G QSFP+ LC BiDi 150m MMF Transceiver (JL308A)
• HPE X142 40G QSFP+ MPO SR4 Transceiver (JH231A)
• HPE X142 40G QSFP+ MPO eSR4 300M Transceiver (JH233A)
• HPE X142 40G QSFP+ LC LR4 SM Transceiver (JH232A)
• Aruba 40G QSFP+ LC ER4 40km SMF Transceiver (Q9G82A)
• HPE X242 40G QSFP+ to QSFP+ 1m Direct Attach Copper Cable (JH234A)
• HPE X242 40G QSFP+ to QSFP+ 3m Direct Attach Copper Cable (JH235A)
• HPE X242 40G QSFP+ to QSFP+ 5m Direct Attach Copper Cable (JH236A)
• Aruba 40G QSFP+ to QSFP+ 7m Active Optical Cable (R0Z22A)
• Aruba 40G QSFP+ to QSFP+ 15m Active Optical Cable (R0Z23A)
• Aruba 40G QSFP+ to QSFP+ 30m Active Optical Cable (R0Z24A)

See next page for 100G transceivers and cables
100G Transceivers¹ and Cables

- Aruba 100G QSFP28 MPO SR4 MMF Transceiver (JL309A)
- Aruba 100G QSFP28 LC LR4 SMF Transceiver (JL310A)
- Aruba 100G QSFP28 LC CWDM4 2km SMF Transceiver (R0Z30A)
- Aruba 100G QSFP28 to QSFP28 1m Direct Attach Copper Cable (R0Z25A)
- Aruba 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable (JL307A)
- Aruba 100G QSFP28 to QSFP28 5m Direct Attach Copper Cable (R0Z26A)

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

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¹ Consult the ArubaOS-Switch and AOS-CX Transceiver Guide in the Aruba Support Portal for the minimum required software releases to support these transceivers.
² 10G LR support only for Revision E part, J9151E (Note: Do not use J9151D)
³ Maximum of twelve (12) 10GBASE-T (JL563A) in 8325-48Y8C models only allowed in ports 1-2, 4-5, 7-8, 10-11, 13-14, 16-17 (Not applicable to 8325-32C models)
⁴ Maximum of thirty-two (32) 1G RJ45 (J8177D) in 8325-48Y8C models only allowed in top two rows, not the third row (Not applicable to 8325-32C models)