## Overview

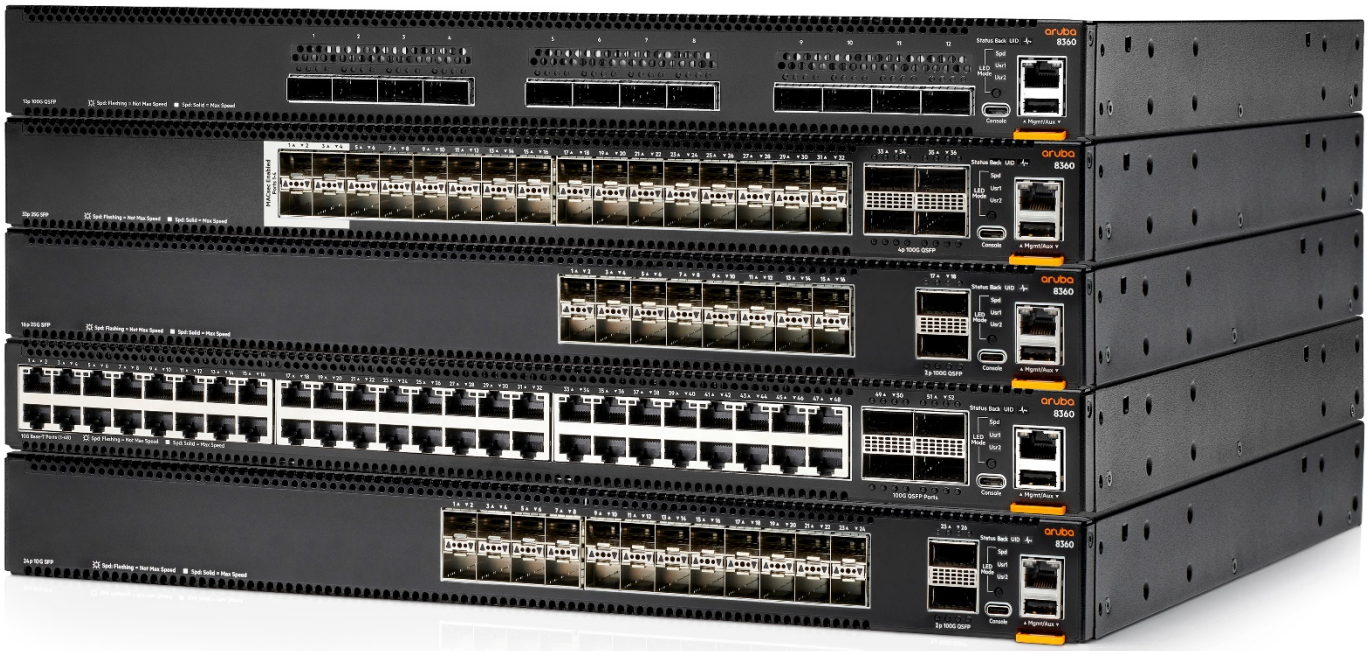
# Aruba CX 8360 Switch Series

### High Performance Enterprise Campus and Data Center Switch

The Aruba CX 8360 Switch Series offers a flexible and innovative approach to addressing the application, security, scalability demands of the mobile, cloud and IoT era. These switches serve the needs of the next generation core and aggregation layer of campuses, as well as virtual and highly dynamic data center environments. They provide over 2.4Tbps of capacity, with line-rate Gigabit Ethernet interfaces including 1Gbps, 10Gbps, 25Gbps, 40Gbps, 50Gbps*, and 100Gbps.

The 8360 series includes industry-leading line rate ports 1/10/25GbE (SFP/SFP+/SFP28), 40/100 GbE (QSFP+/QSFP28) with connectivity in a compact 1U form factor. 4x10Gbps and 4x25Gbps break out from 40/100G ports offers advanced flexibility in connectivity and aggregation. These switches deliver a fantastic investment for customers wanting to migrate from older 1GbE/10GbE to faster 25GbE, or from 10GbE/40GbE uplinks to 100GbE ports.

In addition, the 32 x 25G port 8360 models support low density MACsec ports and enable secured connectivity at 10GbE and 25GbE speed over unsecure domains.



**Aruba CX 8360 Switch Series**

# Overview

## Key Features

- High performance 2.4Tbps with 2,000 Mpps
- Intelligent monitoring and visibility with Aruba Network Analytics Engine
- 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 data center environments
- MACsec secured connectivity over untrusted domains
- ArubaOS-CX automation and programmability using built-in REST APIs and Python scripts
- Advanced Layer 2/3 feature set includes BGP, OSPF, VRF, and IPv6
- Compact 1U switch with 1/10/25GbE and 40/100GbE connectivity

# Standard Features

## Product Differentiators

The Aruba CX 8360 switch series is based on ArubaOS-CX, a modern, database-driven operating system that automates and simplifies many critical and complex tasks. The enhanced capabilities of ArubaOS-CX provide a unique set of differentiators for campus and data center switching.

### Modular Architecture with native cloud-native ArubaOS-CX

ArubaOS-CX is built on a modular Linux architecture with OVSDB, providing the following unique capabilities:

- Safe and powerful access to all state at all times allows unique visibility and analytics capabilities
- REST APIs and Python scripting provide fine-grained microservices architecture enables full integration with other workflow systems and services
- Continual state synchronization provides superior fault tolerance and high availability
- All software processes communicate with the database rather than with each other, ensuring high stability with minimal inter-process communication

### Aruba Network Analytics Engine

ArubaOS-CX includes Aruba's Network Analytics Engine (NAE) for advanced telemetry and automation. The NAE framework is an industry-first monitoring and troubleshooting system, providing greatly improved network operations. NAE uniquely provides the ability to monitor and easily troubleshoot network health and congestion issues. The Time Series Database (TSDB) may be used to store configuration and operational state.

Customers can use data from the TSDB to write software modules to troubleshoot problems. This data may also be used to analyze trends, identify anomalies and predict future capacity requirements.

### Aruba Virtual Switching Extension

The ability of ArubaOS-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 Multichassis 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.

## Product Capabilities

### Performance

- **High-speed fully distributed architecture**
  Provides 2.4Tbps for bidirectional switching and 2,000 Mpps for forwarding. All switching and routing are wire-speed to meet the demands of bandwidth-intensive applications today and in the future
- **Scalable system design**
  Provides investment protection to support future technologies and higher-speed connectivity

### Connectivity

- **Variety of port density options**
  - Five different base models, each sold in two versions: a port-to-power airflow bundle, and a power-to-port airflow bundle:
    - 12 ports of 40GbE/100GbE (QSFP+/QSFP28)
    - 16 ports of 1GbE/10GbE/25GbE (SFP/SFP+/SFP28)
      + 2 ports of 40GbE/100GbE (QSFP+/QSFP28)
    - 28 ports of 1GbE/10GbE/25GbE (SFP/SFP+/SFP28)
      + 4 10GbE/25GbE (SFP+/SFP28) with MACsec
      + 4 ports of 40GbE/100GbE (QSFP+/QSFP28)
    - 24 ports of 1GbE/10GbE (SFP/SFP+)
      + 2 ports of 40GbE/100GbE (QSFP+/QSFP28)

## Standard Features

  - 48 ports of 100M/1GbE/10GbE (10GBASE-T) + 4 ports of 40GbE/100GbE (QSFP+/QSFP28)
- MACsec support is on selected ports (see above model descriptions).
- All QSFP ports (QSFP+/QSFP28), except those on the 48x1G/10GBASE-T model, support optional 4x10G/4x25G break out capability.
- There is 10GBASE-T transceiver support on the SFP+/SFP28 ports.
- There is 1Gbps transceiver support on SFP+/non-MACsec SFP28, including 1GBASE-T.
- There is 50Gbps readiness on selected SFP28 ports (8 of 16 ports on 8360-16Y2C, 14 of 32 on 8360-32Y4C, 22 of 48 on 8360-48Y6C) [1]. This depends on software and transceiver future roadmap capability.
  **Notes:** [1]Two ports at 25Gbps are traded for each single port at 50Gbps – one is linked at 50Gbps, the other is unlinked and disabled.

- **Jumbo frames**
  Allows high-performance backups and disaster-recovery systems; provides a maximum frame size of 9K bytes
- **Unsupported Transceiver Mode (UTM)**
  Allows users to insert and enable all unsupported 1G and 10G transceivers and cables
  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)**
  Enables congestion avoidance
- **Data Center Bridging (DCB)**
  Supports lossless Ethernet networking standard Priority Flow Control (PFC), Enhanced Transmission Service (ETS) and DCB Exchange Protocol (DCBX) to eliminate packet loss due to queue overflow
- **Explicit Congestion Notification (ECN)**
  Marks packets rather than drops them, enabling the receiver to indicate the congestion to the sender, which in turn can reduce its transmission rate as if it detected a dropped packet.

### 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 accessory 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
- **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
- **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

## Standard Features

- **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.

### Management

In addition to the Aruba CX Mobile App, Aruba NetEdit and Aruba Network Analytics Engine, the 8360 series offers the following:

- **REST API interface**
  Built-in, programmable and easy-to-use
- **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 immediate automated gathering of additional information when anomalies are detected
- **SNMP v2c/v3**
  Provides SNMP read and trap support of industry standard Management Information Base (MIB), and private extensions
- **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

## Standard Features

- **Bridge Protocol Data Unit (BPDU) tunneling**
  Transmits STP BPDUs transparently, allowing correct tree calculations across service providers, WANs, or MANs
- **Port mirroring**
  Duplicates port traffic (ingress and egress) to a local or remote monitoring port; supports 4 mirroring groups, with an unlimited number of ports per group
- **STP**
  Supports standard IEEE 802.1D STP, IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) for faster convergence, and IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
- **Rapid Per-VLAN spanning tree plus (RPVST+)**
  Allows each VLAN to build a separate spanning tree to improve link bandwidth usage in network environments with multiple VLANs
- **Internet Group Management Protocol (IGMP)**
  Controls and manages the flooding of multicast packets in a Layer 2 network
- **Static VXLAN**
  Allows operators to manually connect two or more VXLAN tunnel endpoints (VTEP)
- **Dynamic VXLAN with BGP-EVPN**
  Deep segmentation for Spine/Leaf data center networks or Layer 3 campus designs with centralized gateway and symmetric Integrated Routing and Bridging (IRB) based distributed gateways VXLAN tunnels
- **VXLAN distributed anycast gateway**
  Addressing mechanism that enables the use of the same gateway IP addresses across all the leaf switches part of a VXLAN network
- **VXLAN ARP suppression**
  Allows to minimize the amount of ARP traffic flooding within individual VXLAN segments

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

### Layer 3 Routing

- **Static IPv4 routing**
  Provides simple manually configured IPv4 routing
- **Open shortest path first (OSPF)**
  Delivers faster convergence; uses link-state routing Interior Gateway Protocol (IGP), which supports ECMP, NSSA, and MD5 authentication for increased security and graceful restart for faster failure recovery
- **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

## Standard Features

- **Routing Information Protocol version 2 (RIPv2)**
  Easy to configure routing protocol for small networks relying on User Datagram Protocol (UDP)
- **Routing Information Protocol Next Generation (RIPng)**
  Extension of RIPv2 for support of IPv6 networking
- **Multiprotocol BGP (MP-BGP) with IPv6 Address Family**
  Enables sharing of IPv6 routes using BGP and connections to BGP peers using IPv6
- **Policy Based Routing (PBR)**
  Enables using a classifier to select traffic that can be forwarded based on policy set by the network administrator
- **6in4 tunnels**
  Supports the tunneling of IPv6 traffic in an IPv4 network
- **IP performance optimization**
  Provides a set of tools to improve the performance of IPv4 networks; includes directed broadcasts, customization of TCP parameters, support of ICMP error packets, and extensive display capabilities
- **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 8360 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
- **RadSec**
  Enable RADIUS authentication and accounting data to be passed safely and reliably across insecure networks such as the internet
- **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
- **MACsec**
  High level encryption from AES128 and AES256 with 2SAK as well as 4SAK mode of Static Key provisioning enabling secure communication for all traffic on Ethernet links

## Standard Features

### Multicast

- **Internet Group Management Protocol (IGMP)**
  Enables establishing multicast group memberships in IPv4 networks; supports IGMPv1, v2, and v3
- **Multicast Listener Discovery (MLD)**
  Enables discovery of IPv6 multicast listeners; supports MLDv1 and v2
- **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.
- **Multicast Service Delivery Protocol (MSDP)**
  Efficiently routes multicast traffic through core networks
- **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 an MSDP peer in a group receives an 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)**
  FL and FFL for IGMP/MLD speeds up the process of blocking unnecessary Multicast traffic to a switch port that is connected to end nodes for IGMP. They help to eliminate the CPU overhead of having to generate an IGMP/MLD Group-Specific Query message.
- **Network Load Balancer (NLB)**
  Supported for server applications
- **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**
  See **https://arubanetworks.com/support-services/product-warranties/** for warranty and support information included with your product purchase.

For **Software Releases and Documentation,** refer to **https://asp.arubanetworks.com/downloads**
For **support and services** information, visit **https://arubanetworks.com/support-services/arubacare/**
For **global services** information, see **https://www.arubanetworks.com/services/**

## Configuration Information

### BTO Models

| Rule # | Description | SKU |
|---|---|---|
| 1, 2, 3, 4, 5, 6 | Aruba 8360-32Y4C with MACSec Port to Power 3 Fans 2 PSU Bundle<br>• Includes 2 Port-to-Power Power Units (JL600A)<br>• Includes 3 Port-to-Power Fan Trays (JL714A)<br>• Rack Kit not included<br>• Min=0 \ Max= 28 SFP/SFP+/SFP28 1/10/25G Transceivers<br>• Min=0 \ Max= 4 SFP+/SFP28 10/25G Transceivers with MACsec<br>• Min=0 \ Max = 4 QSFP+/QSFP28 40/100G Transceivers<br>• 1U - Height | JL700A |
| | Aruba 8360-32Y4C with MACSec Port to Power 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | JL700A#B2B |
| | Aruba 8360-32Y4C with MACSec Port to Power 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | JL700A#B2C |
| | Aruba 8360-32Y4C with MACSec Port to Power 3 Fans 2 PSU Bundle<br>• HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | JL700A#B2E |
| | Aruba 8360-32Y4C with MACSec Port to Power 3 Fans 2 PSU Bundle<br>• No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | JL700A#AC3 |
| 1, 2, 3, 4, 5, 6 | Aruba 8360-32Y4C with MACSec Power to Port 3 Fans 2 PSU Bundle<br>• Includes 2 Power-to-Port Power Units (JL712A)<br>• Includes 3 Power-to-Port Fan Trays (JL715A)<br>• Rack Kit not included<br>• Min=0 \ Max= 28 SFP/SFP+/SFP28 1/10/25G Transceivers<br>• Min=0 \ Max= 4 SFP+/SFP28 10/25G Transceivers with MACsec<br>• Min=0 \ Max = 4 QSFP+/QSFP28 40/100G Transceivers<br>• 1U – Height | JL701A |
| | Aruba 8360-32Y4C with MACSec Power to Port 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | JL701A#B2B |
| | Aruba 8360-32Y4C with MACSec Power to Port 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | JL701A#B2C |
| | Aruba 8360-32Y4C with MACSec Power to Port 3 Fans 2 PSU Bundle<br>• HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | JL701A#B2E |
| | Aruba 8360-32Y4C with MACSec Power to Port 3 Fans 2 PSU Bundle<br>• No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | JL701A#AC3 |
| 1, 2, 3, 4, 5, 6 | Aruba 8360-16Y2C Port to Power 3 Fans 2 PSU Bundle<br>• Includes 2 Port-to-Power Power Units (JL600A)<br>• Includes 3 Port-to-Power Fan Trays (JL714A)<br>• Rack Kit not included<br>• Min=0 \ Max= 16 SFP/SFP+/SFP28 1/10/25G Transceivers<br>• Min=0 \ Max = 2 QSFP+/QSFP28 40/100G Transceivers<br>• 1U – Height | JL702A |
| | Aruba 8360-16Y2C Port to Power 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | JL702A#B2B |
| | Aruba 8360-16Y2C Port to Power 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | JL702A#B2C |
| | Aruba 8360-16Y2C Port to Power 3 Fans 2 PSU Bundle | JL702A#B2E |

## Configuration Information

- HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A)

Aruba 8360-16Y2C Port to Power 3 Fans 2 PSU Bundle JL702A#AC3

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

1, 2, 3, 4, 5, 6 Aruba 8360-16Y2C Power to Port 3 Fans 2 PSU Bundle JL703A

- Includes 2 Power-to-Port Power Units (JL712A)
- Includes 3 Power-to-Port Fan Trays (JL715A)
- Rack Kit not included
- Min=0 \ Max= 16 SFP/SFP+/SFP28 1/10/25G Transceivers
- Min=0 \ Max = 2 QSFP+/QSFP28 40/100G Transceivers
- 1U – Height

Aruba 8360-16Y2C Power to Port 3 Fans 2 PSU Bundle JL703A#B2B

- C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent)

Aruba 8360-16Y2C Power to Port 3 Fans 2 PSU Bundle JL703A#B2C

- C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent)

Aruba 8360-16Y2C Power to Port 3 Fans 2 PSU Bundle JL703A#B2E

- HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A)

Aruba 8360-16Y2C Power to Port 3 Fans 2 PSU Bundle JL703A#AC3

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

4, 5, 6 Aruba 8360-48XT4C Port to Power 3 Fans 2 PSU Bundle JL706A

- Includes 2 Port-to-Power Power Units (JL600A)
- Includes 3 Port-to-Power Fan Trays (JL714A)
- Rack Kit not included
- Min=0 \ Max = 4 QSFP+/QSFP28 40/100G Transceivers
- 1U - Height

Aruba 8360-48XT4C Port to Power 3 Fans 2 PSU Bundle JL706A#B2B

- C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent)

Aruba 8360-48XT4C Port to Power 3 Fans 2 PSU Bundle JL706A#B2C

- C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent)

Aruba 8360-48XT4C Port to Power 3 Fans 2 PSU Bundle JL706A#B2E

- HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A)

Aruba 8360-48XT4C Port to Power 3 Fans 2 PSU Bundle JL706A#AC3

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

4, 5, 6 Aruba 8360-48XT4C Power to Port 3 Fans 2 PSU Bundle JL707A

- Includes 2 Power-to-Port Power Units (JL712A)
- Includes 3 Power-to-Port Fan Trays (JL715A)
- Rack Kit not included
- Min=0 \ Max = 4 QSFP+/QSFP28 40/100G Transceivers
- 1U - Height

Aruba 8360-48XT4C Power to Port 3 Fans 2 PSU Bundle JL707A#B2B

- C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent)

Aruba 8360-48XT4C Power to Port 3 Fans 2 PSU Bundle JL707A#B2C

- C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent)

Aruba 8360-48XT4C Power to Port 3 Fans 2 PSU Bundle JL707A#B2E

- HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A)

Aruba 8360-48XT4C Power to Port 3 Fans 2 PSU Bundle JL707A#AC3

## Configuration Information

| | | |
|---|---|---|
| | • No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | |
| 4, 5, 6 | Aruba 8360-12C Port to Power 3 Fans 2 PSU Bundle<br>• Includes 2 Port-to-Power Power Units (JL600A)<br>• Includes 3 Port-to-Power Fan Trays (JL714A)<br>• Rack Kit not included<br>• Min=0 \ Max = 12 QSFP+/QSFP28 40/100G Transceivers<br>• 1U - Height | JL708A |
| | Aruba 8360-12C Port to Power 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | JL708A#B2B |
| | Aruba 8360-12C Port to Power 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | JL708A#B2C |
| | Aruba 8360-12C Port to Power 3 Fans 2 PSU Bundle<br>• HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | JL708A#B2E |
| | Aruba 8360-12C Port to Power 3 Fans 2 PSU Bundle<br>• No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | JL708A#AC3 |
| 4, 5, 6 | Aruba 8360-12C Power to Port 3 Fans 2 PSU Bundle<br>• Includes 2 Power-to-Port Power Units (JL712A)<br>• Includes 3 Power-to-Port Fan Trays (JL715A)<br>• Rack Kit not included<br>• Min=0 \ Max = 12 QSFP+/QSFP28 40/100G Transceivers<br>• 1U - Height | JL709A |
| | Aruba 8360-12C Power to Port 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | JL709A#B2B |
| | Aruba 8360-12C Power to Port 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | JL709A#B2C |
| | Aruba 8360-12C Power to Port 3 Fans 2 PSU Bundle<br>• HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | JL709A#B2E |
| | Aruba 8360-12C Power to Port 3 Fans 2 PSU Bundle<br>• No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | JL709A#AC3 |
| 1, 2, 4, 5, 6 | Aruba 8360-24XF2C Port to Power 3 Fans 2 PSU Bundle<br>• Includes 2 Port-to-Power Power Units (JL600A)<br>• Includes 3 Port-to-Power Fan Trays (JL714A)<br>• Rack Kit not included<br>• Min=0 \ Max= 24 SFP/SFP+ 1/10G Transceivers<br>• Min=0 \ Max = 2 QSFP+/QSFP28 40/100G Transceivers<br>• 1U - Height | JL710A |
| | Aruba 8360-24XF2C Port to Power 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | JL710A#B2B |
| | Aruba 8360-24XF2C Port to Power 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | JL710A#B2C |
| | Aruba 8360-24XF2C Port to Power 3 Fans 2 PSU Bundle<br>• HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | JL710A#B2E |
| | Aruba 8360-24XF2C Port to Power 3 Fans 2 PSU Bundle<br>• No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | JL710A#AC3 |

## Configuration Information

| | | |
|---|---|---|
| 1, 2, 4, 5, 6 | Aruba 8360-24XF2C Power to Port 3 Fans 2 PSU Bundle<br>• Includes 2 Power-to-Port Power Units (JL712A)<br>• Includes 3 Power-to-Port Fan Trays (JL715A)<br>• Rack Kit not included<br>Min=0 \ Max= 24 SFP/SFP+ 1/10G Transceivers<br>• Min=0 \ Max = 2 QSFP+/QSFP28 40/100G Transceivers<br>• 1U - Height | JL711A |
| | Aruba 8360-24XF2C Power to Port 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | JL711A#B2B |
| | Aruba 8360-24XF2C Power to Port 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | JL711A#B2C |
| | Aruba 8360-24XF2C Power to Port 3 Fans 2 PSU Bundle<br>• HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | JL711A#B2E |
| | Aruba 8360-24XF2C Power to Port 3 Fans 2 PSU Bundle<br>• No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | JL711A#AC3 |

**Configuration Rules**

| Rule # | Description | SKU |
|---|---|---|
| 1 | The following Transceivers install into this Module: (Use BTO only when adding to switch) | |
| | 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 |
| 2 | The following Transceivers install into this Module: (Use BTO only when adding to switch) | |
| | Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver | J9150D |
| | Aruba 10G SFP+ LC LR 10km SMF Transceiver | J9151E |
| | Aruba 10GBASE-T SFP+ RJ45 30m Cat6A Transceiver | JL563A |
| | 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 |
| | HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 3m Direct Attach Copper Cable | 487655-B21 |
| | HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 5m Direct Attach Copper Cable | 537963-B21 |
| 3 | The following Transceivers install into this Module: (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 |
| | HPE 25Gb SFP28 to SFP28 3m Direct Attach Copper Cable | 844477-B21 |
| | HPE 25Gb SFP28 to SFP28 5m Direct Attach Copper Cable | 844480-B21 |
| | Aruba 25G SFP28 to SFP28 3m Active Optical Cable | R0M44A |
| | Aruba 25G SFP28 to SFP28 7m Active Optical Cable | R0M45A |
| | Aruba 25G SFP28 to SFP28 15m Active Optical Cable | R0Z21A |
| 4 | The following Transceivers install into this Module: (Use BTO only when adding to switch) | |
| | Aruba 40G QSFP+ LC Bidirectional 150m MMF 2-strand Transceiver | JL308A |
| | HPE X142 40G QSFP+ MPO SR4 Transceiver | JH231A |

## Configuration Information

| | | |
|---|---|---|
| | HPE X142 40G QSFP+ LC LR4 SM Transceiver | JH232A |
| | HPE X142 40G QSFP+ MPO eSR4 300M Transceiver | JH233A |
| | 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 |
| | HPE BladeSystem c-Class 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable | 721064-B21 |
| 5 | The following Transceivers install into this Module: (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 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 |
| | HPE 100Gb QSFP28 to 4x25Gb SFP28 3m Direct Attach Copper Cable | 845416-B21 |
| 6 | Localization required on orders without #B2B, #B2C, #B2E, or #AC3 options. | |
| **Notes:** | - Required Custom Choice (Min1/Max1)<br>- Switch/Router/Power Supply to PDU Power Cord - B2B in North America, Mexico, Taiwan, and Japan or B2C ROW. (OCA Default B2B or B2C for Rack Level CTO)<br>- Switch/Router/Power Supply to Wall Power Cord - Localized Option (OCA Default for BTO)<br>- High Volt Switch/Router/Power Supply to Wall Power Cord - B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)<br>- No Power Cord - AC3 Option | |

## Configuration Information

### Rack Level Integration CTO Models

| Rule # | Description | SKU |
|---|---|---|
| 1, 2, 3, 4, 5, 6, 7 | Aruba 8360-32Y4C with MACSec Port to Power 3 Fans 2 PSU Bundle | JL700A |
| | • Includes 2 Port-to-Power Power Units (JL600A)<br>• Includes 3 Port-to-Power Fan Trays (JL714A)<br>• Rack Kit not included<br>• Min=0 \ Max= 28 SFP/SFP+/SFP28 1/10/25G Transceivers<br>• Min=0 \ Max= 4 SFP+/SFP28 10/25G Transceivers with MACsec<br>• Min=0 \ Max = 4 QSFP+/QSFP28 40/100G Transceivers<br>• 1U - Height | |
| | Aruba 8360-32Y4C with MACSec Port to Power 3 Fans 2 PSU Bundle | JL700A#B2B |
| | • C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | |
| | Aruba 8360-32Y4C with MACSec Port to Power 3 Fans 2 PSU Bundle | JL700A#B2C |
| | • C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | |
| | Aruba 8360-32Y4C with MACSec Port to Power 3 Fans 2 PSU Bundle | JL700A#B2E |
| | • HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | |
| | Aruba 8360-32Y4C with MACSec Port to Power 3 Fans 2 PSU Bundle | JL700A#AC3 |
| | • No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | |
| 1, 2, 3, 4, 5, 6, 7 | Aruba 8360-32Y4C with MACSec Power to Port 3 Fans 2 PSU Bundle | JL701A |
| | • Includes 2 Power-to-Port Power Units (JL712A)<br>• Includes 3 Power-to-Port Fan Trays (JL715A)<br>• Rack Kit not included<br>• Min=0 \ Max= 28 SFP/SFP+/SFP28 1/10/25G Transceivers<br>• Min=0 \ Max= 4 SFP+/SFP28 10/25G Transceivers with MACsec<br>• Min=0 \ Max = 4 QSFP+/QSFP28 40/100G Transceivers<br>• 1U – Height | |
| | Aruba 8360-32Y4C with MACSec Power to Port 3 Fans 2 PSU Bundle | JL701A#B2B |
| | • C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | |
| | Aruba 8360-32Y4C with MACSec Power to Port 3 Fans 2 PSU Bundle | JL701A#B2C |
| | • C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | |
| | Aruba 8360-32Y4C with MACSec Power to Port 3 Fans 2 PSU Bundle | JL701A#B2E |
| | • HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | |
| | Aruba 8360-32Y4C with MACSec Power to Port 3 Fans 2 PSU Bundle | JL701A#AC3 |
| | • No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | |
| 1, 2, 3, 4, 5, 6, 7 | Aruba 8360-16Y2C Port to Power 3 Fans 2 PSU Bundle | JL702A |
| | • Includes 2 Port-to-Power Power Units (JL600A)<br>• Includes 3 Port-to-Power Fan Trays (JL714A)<br>• Rack Kit not included<br>• Min=0 \ Max= 16 SFP/SFP+/SFP28 1/10/25G Transceivers<br>• Min=0 \ Max = 2 QSFP+/QSFP28 40/100G Transceivers<br>• 1U – Height | |
| | Aruba 8360-16Y2C Port to Power 3 Fans 2 PSU Bundle | JL702A#B2B |
| | • C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | |

## Configuration Information

| | | |
|---|---|---|
| | Aruba 8360-16Y2C Port to Power 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | JL702A#B2C |
| | Aruba 8360-16Y2C Port to Power 3 Fans 2 PSU Bundle<br>• HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | JL702A#B2E |
| | Aruba 8360-16Y2C Port to Power 3 Fans 2 PSU Bundle<br>• No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | JL702A#AC3 |
| 1, 2, 3, 4, 5, 6, 7 | Aruba 8360-16Y2C Power to Port 3 Fans 2 PSU Bundle<br>• Includes 2 Power-to-Port Power Units (JL712A)<br>• Includes 3 Power-to-Port Fan Trays (JL715A)<br>• Rack Kit not included<br>• Min=0 \ Max= 16 SFP/SFP+/SFP28 1/10/25G Transceivers<br>• Min=0 \ Max = 2 QSFP+/QSFP28 40/100G Transceivers<br>• 1U – Height | JL703A |
| | Aruba 8360-16Y2C Power to Port 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | JL703A#B2B |
| | Aruba 8360-16Y2C Power to Port 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | JL703A#B2C |
| | Aruba 8360-16Y2C Power to Port 3 Fans 2 PSU Bundle<br>• HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | JL703A#B2E |
| | Aruba 8360-16Y2C Power to Port 3 Fans 2 PSU Bundle<br>• No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | JL703A#AC3 |
| 4, 5, 6, 7 | Aruba 8360-48XT4C Port to Power 3 Fans 2 PSU Bundle<br>• Includes 2 Port-to-Power Power Units (JL600A)<br>• Includes 3 Port-to-Power Fan Trays (JL714A)<br>• Rack Kit not included<br>• Min=0 \ Max = 4 QSFP+/QSFP28 40/100G Transceivers<br>• 1U - Height | JL706A |
| | Aruba 8360-48XT4C Port to Power 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | JL706A#B2B |
| | Aruba 8360-48XT4C Port to Power 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | JL706A#B2C |
| | Aruba 8360-48XT4C Port to Power 3 Fans 2 PSU Bundle<br>• HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | JL706A#B2E |
| | Aruba 8360-48XT4C Port to Power 3 Fans 2 PSU Bundle<br>• No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | JL706A#AC3 |
| 4, 5, 6, 7 | Aruba 8360-48XT4C Power to Port 3 Fans 2 PSU Bundle<br>• Includes 2 Power-to-Port Power Units (JL712A)<br>• Includes 3 Power-to-Port Fan Trays (JL715A)<br>• Rack Kit not included<br>• Min=0 \ Max = 4 QSFP+/QSFP28 40/100G Transceivers<br>• 1U - Height | JL707A |
| | Aruba 8360-48XT4C Power to Port 3 Fans 2 PSU Bundle<br>• C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | JL707A#B2B |

## Configuration Information

| | | |
|---|---|---|
| | Aruba 8360-48XT4C Power to Port 3 Fans 2 PSU Bundle | JL707A#B2C |
| | • C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | |
| | Aruba 8360-48XT4C Power to Port 3 Fans 2 PSU Bundle | JL707A#B2E |
| | • HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | |
| | Aruba 8360-48XT4C Power to Port 3 Fans 2 PSU Bundle | JL707A#AC3 |
| | • No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | |
| 4, 5, 6, 7 | Aruba 8360-12C Port to Power 3 Fans 2 PSU Bundle | JL708A |
| | • Includes 2 Port-to-Power Power Units (JL600A)<br>• Includes 3 Port-to-Power Fan Trays (JL714A)<br>• Rack Kit not included<br>• Min=0 \ Max = 12 QSFP+/QSFP28 40/100G Transceivers<br>• 1U - Height | |
| | Aruba 8360-12C Port to Power 3 Fans 2 PSU Bundle | JL708A#B2B |
| | • C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | |
| | Aruba 8360-12C Port to Power 3 Fans 2 PSU Bundle | JL708A#B2C |
| | • C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | |
| | Aruba 8360-12C Port to Power 3 Fans 2 PSU Bundle | JL708A#B2E |
| | • HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | |
| | Aruba 8360-12C Port to Power 3 Fans 2 PSU Bundle | JL708A#AC3 |
| | • No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | |
| 4, 5, 6 | Aruba 8360-12C Power to Port 3 Fans 2 PSU Bundle | JL709A |
| | • Includes 2 Power-to-Port Power Units (JL712A)<br>• Includes 3 Power-to-Port Fan Trays (JL715A)<br>• Rack Kit not included<br>• Min=0 \ Max = 12 QSFP+/QSFP28 40/100G Transceivers<br>• 1U - Height | |
| | Aruba 8360-12C Power to Port 3 Fans 2 PSU Bundle | JL709A#B2B |
| | • C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | |
| | Aruba 8360-12C Power to Port 3 Fans 2 PSU Bundle | JL709A#B2C |
| | • C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | |
| | Aruba 8360-12C Power to Port 3 Fans 2 PSU Bundle | JL709A#B2E |
| | • HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | |
| | Aruba 8360-12C Power to Port 3 Fans 2 PSU Bundle | JL709A#AC3 |
| | • No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | |
| 1, 2, 4, 5, 6, 7 | Aruba 8360-24XF2C Port to Power 3 Fans 2 PSU Bundle | JL710A |
| | • Includes 2 Port-to-Power Power Units (JL600A)<br>• Includes 3 Port-to-Power Fan Trays (JL714A)<br>• Rack Kit not included<br>• Min=0 \ Max= 24 SFP/SFP+ 1/10G Transceivers<br>• Min=0 \ Max = 2 QSFP+/QSFP28 40/100G Transceivers<br>• 1U - Height | |
| | Aruba 8360-24XF2C Port to Power 3 Fans 2 PSU Bundle | JL710A#B2B |
| | • C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | |
| | Aruba 8360-24XF2C Port to Power 3 Fans 2 PSU Bundle | JL710A#B2C |
| | • C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | |

## Configuration Information

| | | |
|---|---|---|
| | Aruba 8360-24XF2C Port to Power 3 Fans 2 PSU Bundle | JL710A#B2E |
| | • HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | |
| | Aruba 8360-24XF2C Port to Power 3 Fans 2 PSU Bundle | JL710A#AC3 |
| | • No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | |
| 1, 2, 4, 5, 6, 7 | Aruba 8360-24XF2C Power to Port 3 Fans 2 PSU Bundle | JL711A |
| | • Includes 2 Power-to-Port Power Units (JL712A)<br>• Includes 3 Power-to-Port Fan Trays (JL715A)<br>• Rack Kit not included<br>Min=0 \ Max= 24 SFP/SFP+ 1/10G Transceivers<br>• Min=0 \ Max = 2 QSFP+/QSFP28 40/100G Transceivers<br>• 1U - Height | |
| | Aruba 8360-24XF2C Power to Port 3 Fans 2 PSU Bundle | JL711A#B2B |
| | • C13 PDU Jumper Cord (NA/MEX/TW/JP) (J9943A C15 equivalent) | |
| | Aruba 8360-24XF2C Power to Port 3 Fans 2 PSU Bundle | JL711A#B2C |
| | • C13 PDU Jumper Cord (ROW) (J9944A C15 equivalent) | |
| | Aruba 8360-24XF2C Power to Port 3 Fans 2 PSU Bundle | JL711A#B2E |
| | • HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | |
| | Aruba 8360-24XF2C Power to Port 3 Fans 2 PSU Bundle | JL711A#AC3 |
| | • No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | |

**Configuration Rules**

| Rule # | Description | SKU |
|---|---|---|
| 1 | The following Transceivers install into this Switch: (Use #0D1 for XCVRs or #B01 for Cables since switch is factory racked): | |
| | 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 |
| 2 | The following Transceivers install into this Switch: (Use #0D1 for XCVRs or #B01 for Cables since switch is factory racked): | |
| | Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver | J9150D |
| | Aruba 10G SFP+ LC LR 10km SMF Transceiver | J9151E |
| | Aruba 10GBASE-T SFP+ RJ45 30m Cat6A Transceiver | JL563A |
| | 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 |
| | HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 3m Direct Attach Copper Cable | 487655-B21 |
| | HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 5m Direct Attach Copper Cable | 537963-B21 |
| 3 | The following Transceivers install into this Switch: (Use #0D1 for XCVRs or #B01 for Cables since switch is factory racked): | |
| | 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 |
| | HPE 25Gb SFP28 to SFP28 3m Direct Attach Copper Cable | 844477-B21 |

## Configuration Information

| | | |
|---|---|---|
| | HPE 25Gb SFP28 to SFP28 5m Direct Attach Copper Cable | 844480-B21 |
| | Aruba 25G SFP28 to SFP28 3m Active Optical Cable | R0M44A |
| | Aruba 25G SFP28 to SFP28 7m Active Optical Cable | R0M45A |
| | Aruba 25G SFP28 to SFP28 15m Active Optical Cable | R0Z21A |
| 4 | The following Transceivers install into this Switch: (Use #0D1 for XCVRs or #B01 for Cables since switch is factory racked): | |
| | Aruba 40G QSFP+ LC Bidirectional 150m MMF 2-strand Transceiver | JL308A |
| | 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 ER4 40km SMF Transceiver | Q9G82A |
| | HPE X242 40G QSFP+ to QSFP+ 1m Direct Attach Copper Cable | JH234A |
| | HPE X242 40G QSFP+ to QSFP+ 3m Direct Attach Copper Cable | JH235A |
| | HPE X242 40G QSFP+ to QSFP+ 5m Direct Attach Copper Cable | JH236A |
| | HPE BladeSystem c-Class 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable | 721064-B21 |
| 5 | The following Transceivers install into this Switch: (Use #0D1 for XCVRs or #B01 for Cables since switch is factory racked): | |
| | 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 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 |
| | HPE 100Gb QSFP28 to 4x25Gb SFP28 3m Direct Attach Copper Cable | 845416-B21 |
| 6 | - Required Custom Choice (Min1/Max1)<br>- Switch/Router/Power Supply to PDU Power Cord - B2B in North America, Mexico, Taiwan, and Japan or B2C ROW. (OCA Default B2B or B2C for Rack Level CTO)<br>- Switch/Router/Power Supply to Wall Power Cord - Localized Option (OCA Default for BTO)<br>- High Volt Switch/Router/Power Supply to Wall Power Cord - B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)<br>- No Power Cord - AC3 Option | |
| 7 | Factory racked CTO Base Model must integrate (#0D1) to the Rack. | |
| **Notes:** | Locking Power Cord (J9955A) L6-20P is available through the OCA Accessories tab | |

### Transceivers

| Rule # | Description | SKU |
|---|---|---|
| | **SPF 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 |
| | **SPF+ Transceivers** | |
| | Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver | J9150D |
| | Aruba 10G SFP+ LC LR 10km SMF Transceiver | J9151E |
| | Aruba 10G SFP+ LC LRM 220m OM2 MMF Transceiver | J9152D |
| | 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 |

## Configuration Information

| | | |
|---|---|---|
| | HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 3m Direct Attach Copper Cable | 487655-B21 |
| | HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 5m Direct Attach Copper Cable | 537963-B21 |
| | **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 |
| | HPE 25Gb SFP28 to SFP28 3m Direct Attach Copper Cable | 844477-B21 |
| | HPE 25Gb SFP28 to SFP28 5m Direct Attach Copper Cable | 844480-B21 |
| | Aruba 25G SFP28 to SFP28 3m Active Optical Cable | R0M44A |
| | Aruba 25G SFP28 to SFP28 7m Active Optical Cable | R0M45A |
| | Aruba 25G SFP28 to SFP28 15m Active Optical Cable | R0Z21A |
| | **QSFP+ Transceivers** | |
| | Aruba 40G QSFP+ LC Bidirectional 150m MMF 2-strand Transceiver | JL308A |
| | HPE X142 40G QSFP+ MPO SR4 Transceiver | JH231A |
| | HPE X142 40G QSFP+ LC LR4 SM Transceiver | JH232A |
| | Aruba 40G QSFP+ LC ER4 40km SMF Transceiver | Q9G82A |
| | 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 |
| * | HPE BladeSystem c-Class 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable | 721064-B21 |
| **Notes:** | *This Breakout Cable is not supported on the following Switches: | |
| | Aruba 8360-48XT4C Port to Power 3 Fans 2 PSU Bundle | JL706A |
| | Aruba 8360-48XT4C Power to Port 3 Fans 2 PSU Bundle | JL707A |
| | **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 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 |
| * | HPE 100Gb QSFP28 to 4x25Gb SFP28 3m Direct Attach Copper Cable | 845416-B21 |
| **Notes:** | *This Breakout Cable is not supported on the following Switches: | |
| | Aruba 8360-48XT4C Port to Power 3 Fans 2 PSU Bundle | JL706A |
| | Aruba 8360-48XT4C Power to Port 3 Fans 2 PSU Bundle | JL707A |

# Configuration Information

## Switch Options

| Remarks | Description | SKU |
|---|---|---|
| | **Rack Mount Kits** | |
| | Aruba X412 1U Universal 2-post Rack Mount Kit | JL602A |
| | Aruba X414 1U Universal 4-post Rack Mount Kit | J9583B |
| **Notes:** | If the switch will be factory racked into an HPE Universal Rack, then (Min 1) of the 4 Post Rack Mount kit is required with #0D1. | |
| | **Air Duct Kit** | |
| **Rule #** | **Description** | **SKU** |
| 1, 2 | Aruba X544 Universal 4-post Duct Kit (Must order 4-post rack mount kit | JL716A |
| | • Only for Power to Port Bundles | |
| | **Configuration Rules** | |
| 1 | If the Switch Bundle will be Factory Racked, then this Duct Kit is required with #0D1 for the Power to Port Switch Bundles: | |
| | Aruba 8360-32Y4C with MACSec Power to Port 3 Fans 2 PSU Bundle | JL701A |
| | Aruba 8360-16Y2C Power to Port 3 Fans 2 PSU Bundle | JL703A |
| | Aruba 8360-48XT4C Power to Port 3 Fans 2 PSU Bundle | JL707A |
| | Aruba 8360-12C Power to Port 3 Fans 2 PSU Bundle | JL709A |
| | Aruba 8360-24XF2C Power to Port 3 Fans 2 PSU Bundle | JL711A |
| 2 | For optimal performance, it is recommended that the user select the Duct Kit for Power to Port Switch Bundles | |

## Accessories

| Rule # | Description | SKU |
|---|---|---|
| | **Spare Items** | |
| 1 | Aruba X391 550W Port to Power AC Power Supply | JL600A |
| | • Includes 1 x c13, 550w | |
| | Aruba X391 550W Port to Power AC Power Supply | JL600A#B2B |
| | • C13 PDU Jumper Cord (NA/MEX/TW/JP) (JL697A) | |
| | Aruba X391 550W Port to Power AC Power Supply | JL600A#B2C |
| | • C13 PDU Jumper Cord (ROW) (JL697A) | |
| | Aruba X391 550W Port to Power AC Power Supply | JL600A#B2E |
| | • HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | |
| | Aruba X391 550W Port to Power AC Power Supply | JL600A#AC3 |
| | • No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | |
| 1 | Aruba X391 550W Power to Port AC Power Supply | JL712A |
| | • Includes 1 x c13, 550w | |
| | Aruba X391 550W Power to Port AC Power Supply | JL712A#B2B |
| | • C13 PDU Jumper Cord (NA/MEX/TW/JP) (JL697A) | |
| | Aruba X391 550W Power to Port AC Power Supply | JL712A#B2C |
| | • C13 PDU Jumper Cord (ROW) (JL697A) | |
| | Aruba X391 550W Power to Port AC Power Supply | JL712A#B2E |
| | • HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A) | |
| | Aruba X391 550W Power to Port AC Power Supply | JL712A#AC3 |
| | • No Localized Power Cord Selected. Use J9955A to obtain a Locking Plug Power Cord (L6-20P) | |
| | Aruba X741 Port to Power Fan | JL714A |

## Configuration Information

| | | |
|---|---|---|
| | Aruba X742 Power to Port Fan | JL715A |
| | Aruba X412 1U Universal 2-post Rack Mount Kit | JL602A |
| | Aruba X414 1U Universal 4-post Rack Mount Kit | J9583B |
| | Aruba X544 Universal 4-post Duct Kit (Must order 4-post rack mount kit<br>• Must order 4-post rack mount kit separately | JL716A |
| | Aruba X2C2 RJ45 to DB9 Console Cable | JL448A |

**Configuration Rules**

| **Rule #** | **Description** |
|---|---|
| 1 | Localization required on orders without B2B, B2C, B2E or AC3 options. |
| **Notes:** | - OCA Only: Required Custom Choice (Min1/Max1)<br>- Switch/Router/Power Supply to PDU Power Cord - B2B in North America, Mexico, Taiwan, and Japan or B2C ROW. (OCA Default B2B or B2C for Rack Level CTO)<br>- Switch/Router/Power Supply to Wall Power Cord - Localized Option (OCA Default for BTO)<br>- High Volt Switch/Router/Power Supply to Wall Power Cord - B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)<br>- No Power Cord - AC3 Option |

# Technical Specifications

## Model Specifications

| Table 1 | | | | |
|---|---|---|---|---|
| | **Aruba 8360-32Y4C MACsec Port to Power 3 Fans 2 Power Supplies [JL700A]** | **Aruba 8360-32Y4C MACsec Power to Port 3 Fans 2 Power Supplies [JL701A]** | **Aruba 8360-16Y2C Port to Power 3 Fans 2 Power Supplies [JL702A]** | **Aruba 8360-16Y2C Power to Port 3 Fans 2 Power Supplies [JL703A]** |
| **I/O ports and slots** | | | | |
| | 28 ports of 1GbE/10GbE/25GbE (SFP/SFP+/SFP28)<br>4 ports of 10GbE/25GbE (SFP+/SFP28) with MACsec<br>4 ports of 40GbE/100GbE (QSFP+/QSFP28) (optional 1GBASE-T SFP, 10GBASE-T SFP+ transceivers and 4x10G/25G breakout cables supported) | | 16 ports of 1GbE/10GbE/25GbE (SFP/SFP+/SFP28)<br>2 ports of 40GbE/100GbE (QSFP+/QSFP28) (optional 1GBASE-T SFP and 10GBASE-T SFP+ transceivers and 4x10G/25G breakout cables supported) | |
| **Additional ports and slots** | | | | |
| Power Supplies | 2 field-replaceable and hot-swappable power supplies[1] | | | |
| Fans | 3 field-replaceable and hot-swappable fans[2] | | | |
| Management | RJ-45 serial and USB-C console; RJ-45 Ethernet port; USB-Type A | | | |
| **Notes:**<br>- [1] Bundles include the 2 power supplies (2xJL600A in JL700A & JL702A and 2xJL712A in JL701A & JL703A)<br>- [2] Bundles include the 3 fans (3xJL714A in JL700A & JL702A and 3xJL715A in JL701A & JL703A) | | | | |
| **Physical characteristics** | | | | |
| Physical Dimensions (HxWxD) | 1.73in x 17.4in x 16.0in 44.0mm x 442.5mm x 406.4 | | | |
| Full configuration weight | 18.05 lb<br>8.19 kg | | 17.00 lb (estim.)<br>7.71 kg (estim.) | |
| **Reliability** | | | | |
| MTBF | 305,025 hrs. | | 422,884 hrs. | |
| **Memory and Processor** | | | | |
| CPU | 1.8 GHz 4-core 64-bit | | | |
| Memory, Drive and Flash | 16GB RAM, 32GB Flash/Storage | | | |
| Packet Buffer | 32MB | | | |
| Performance | | | | |
| Switching Capacity | 2.4Tbps | | 1.2Tbps | |
| MAC Address Table Size | 212,992 | | | |
| IPv4 Host Table | 145,780 | | | |
| IPv6 Host Table | 145,780 | | | |
| IPv4 Unicast Routes | 606,977 | | | |
| IPv6 Unicast Routes | 630,784 | | | |
| Maximum Number of Access Control List (ACL) Entries Ingress | IPv4 65,536, IPv6 16,384, MAC 65,536 | | | |
| Maximum Number of Access Control List (ACL) Entries Egress | IPv4 8,192, IPv6 2,048, MAC 8,192 | | | |
| Maximum VLANs | 4,094 | | | |
| IGMP Groups | 7,000 | | | |

## Technical Specifications

| | | | | |
|---|---|---|---|---|
| MLD Groups | 7,000 | | | |
| IPv4 Multicast Routes | 7,000 | | | |
| IPv6 Multicast Routes | 7,000 | | | |
| | **Aruba 8360-32Y4C MACsec Port to Power 3 Fans 2 Power Supplies [JL700A]** | **Aruba 8360-32Y4C MACsec Power to Port 3 Fans 2 Power Supplies [JL701A]** | **Aruba 8360-16Y2C Port to Power 3 Fans 2 Power Supplies [JL702A]** | **Aruba 8360-16Y2C Power to Port 3 Fans 2 Power Supplies [JL703A]** |
| **Environment** | | | | |
| Operating Temperature[3] | 32°F to 113°F (0°C to 45°C) up to 5000 ft | 32°F to 104°F (0°C to 40°C) up to 5000 ft | 32°F to 113°F (0°C to 45°C) up to 5000 ft | 32°F to 104°F (0°C to 40°C) up to 5000 ft |
| Operating Relative Humidity | 15% to 95% relative humidity at 113°F (45°C), non-condensing | 15% to 95% relative humidity at 104°F (40°C), non-condensing | 15% to 95% relative humidity at 113°F (45°C), non-condensing | 15% to 95% relative humidity at 104°F (40°C), non-condensing |
| Non-Operating Temperature | -40°C to 70°C (-40°F to 158°F) up to 4.6km (15,000 ft.) | | | |
| Non-Operating/Storage Relative Humidity | 15% to 95% at 149°F (65°C) non-condensing | | | |
| Maximum Operating Altitude | Up to 10,000ft (3.048Km) | | | |
| Maximum Non-Operating Altitude | Up to 15,000ft (4.6Km) | | | |
| Primary Airflow | Port to Power (PrtToPwr) | Power to Port (PwrToPrt) | Port to Power (PrtToPwr) | Power to Port (PwrToPrt) |
| BTU/hr | 1,450 | 1,450 | 1,109 | 1,109 |
| Acoustic Sound Pressure and Sound Power[4] | $L_{WAd}$ = 6.3 Bel<br>$L_{pAm}$ (Bystander) = 45.4 dB | $L_{WAd}$ = 6.4 Bel<br>$L_{pAm}$ (Bystander) = 45.8 dB | $L_{WAd}$ = 6.0 Bel<br>$L_{pAm}$ (Bystander) = 42.8 dB | $L_{WAd}$ = 6.8 Bel<br>$L_{pAm}$ (Bystander) = 49.5 dB |

**Notes:**

- [3] Derate -1°C for every 1000 ft from 5000 ft to 10000 ft regardless of airflow direction
- [4] Reported as "declared A-weighted sound power level" and "mean bystander A-weighted sound pressure level". Acoustics measured in 25°C (77°F) semi-anechoic chamber with a loading of 30% Traffic on all ports. Measured in accordance to ISO 7779. Declared in accordance to ISO 9296.
  Values presented are the Declared A-Weighted Sound Power Levels ($L_{WAd}$) and Mean Bystander A-weighted Sound Pressure Level ($L_{pAm}$)

| | | |
|---|---|---|
| **Electrical Characteristics** | | |
| Frequency | 47-63 Hz | |
| AC Voltage<br>Current | 7.1A for 100-127VAC<br>3.4A for 200-240VAC | |
| Power Consumption | Max: 425W | Max: 325W |
| | Idle: 120W | Idle: 110W |
| **Regulatory** | | |
| Compliance | Products comply with CE Markings according to directives 2014/30/EU (EMC) and 2014/35/EU (Safety) | |
| RoHS | EN 50581:2012 | |
| **Safety** | | |
| EU | EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013<br>EN62368-1, Ed.2:2014 | |
| North America | UL/CUL 69050-1: 2nd Edition<br>UL/CUL 63268-1:2014<br>UL60950-1, CSA 22.2 No 60950-1 | |

## Technical Specifications

| | | | | |
|---|---|---|---|---|
| Worldwide | IEC60950-1:2005 Ed.2 + Am 1:2009 + A2:2013<br>IEC 62368-1:2014 | | | |
| | **Aruba 8360-32Y4C MACsec Port to Power 3 Fans 2 Power Supplies [JL700A]** | **Aruba 8360-32Y4C MACsec Power to Port 3 Fans 2 Power Supplies [JL701A]** | **Aruba 8360-16Y2C Port to Power 3 Fans 2 Power Supplies [JL702A]** | **Aruba 8360-16Y2C Power to Port 3 Fans 2 Power Supplies [JL703A]** |
| **EMC** | | | | |
| Emissions | EN 55024:2010+A2016/CISPR24:2015<br>EN55032:2015/CISPR 32, Class A<br>EN55035:2017/CISPR 35<br>EN61000-3-2:2014, Class A<br>EN61000-3-3:2013<br>FCC CFR 47 Part 15:2010, Class A<br>ICES-003, Class A<br>VCCI Class A<br>CNS 13438<br>CNS 13438 Class A | | | |
| **Laser** | | | | |
| | EN60825-1:2014 / IEC 60825-1: 2014 Class 1<br>Class 1 Laser Products / Laser Klasse 1 | | | |
| **Mounting** | | | | |
| | Mounts in an EIA standard 19-inch rack or other equipment cabinet; horizontal surface mounting only; 2-post and 4-post mounting options available[5]; air baffle available for 4-post power to port airflow deployment available separately | | | |
| **Notes:** [5] Rack mounting kit must be ordered separately. | | | | |

| **Table 2** | | |
|---|---|---|
| | **Aruba 8360-48XT4C Port to Power 3 Fans 2 Power Supplies [JL706A]** | **Aruba 8360-48XT4C Power to Port 3 Fans 2 Power Supplies [JL707A]** |
| **I/O ports and slots** | | |
| | 48 ports of 100M/1GbE/10GBASE-T<br>4 ports of 40GbE/100GbE (QSFP+/QSFP28) | |
| **Additional ports and slots** | | |
| Power Supplies | 2 field-replaceable and hot-swappable power supplies[1] | |
| Fans | 3 field-replaceable and hot-swappable fans[2] | |
| Management | RJ-45 serial and USB-C console; RJ-45 Ethernet port; USB-Type A | |
| **Notes:**<br>- [1] Bundles include the 2 power supplies (2xJL600A in JL706A and 2xJL712A in JL707A)<br>- [2] Bundles JL706A and JL707A include the 3 fans (3xJL714A in JL706A and 3xJL715A in JL707A and JL710A) | | |
| **Physical characteristics** | | |
| Physical Dimensions (HxWxD) | 1.73in x 17.4in x 16.0in<br>44.0mm x 442.5mm x 406.4mm | |
| Full configuration weight | 18.85 lb<br>8.55 kg | |
| Reliability | | |
| MTBF | 258,020 hrs. | |
| **Memory and Processor** | | |
| CPU | 1.8 GHz 4-core 64-bit | |
| Memory, Drive and Flash | 16GB RAM, 32GB Flash/Storage | |
| Packet Buffer | 32MB | |

## Technical Specifications

| | Aruba 8360-48XT4C Port to Power 3 Fans 2 Power Supplies [JL706A] | Aruba 8360-48XT4C Power to Port 3 Fans 2 Power Supplies [JL707A] |
|---|---|---|
| **Performance** | | |
| Switching Capacity | 1.76Tbps | |
| MAC Address Table Size | 212,992 | |
| IPv4 Host Table | 145,780 | |
| IPv6 Host Table | 145,780 | |
| IPv4 Unicast Routes | 606,977 | |
| IPv6 Unicast Routes | 630,784 | |
| Maximum Number of Access Control List (ACL) Entries Ingress | IPv4 65,536, IPv6 16,384, MAC 65,536 | |
| Maximum Number of Access Control List (ACL) Entries Egress | IPv4 8,192, IPv6 2,048, MAC 8,192 | |
| Maximum VLANs | 4,094 | |
| IGMP Groups | 7,000 | |
| MLD Groups | 7,000 | |
| IPv4 Multicast Routes | 7,000 | |
| IPv6 Multicast Routes | 7,000 | |
| **Environment** | | |
| Operating Temperature[3] | 32°F to 113°F (0°C to 45°C) up to 5000 ft | 32°F to 104°F (0°C to 40°C) up to 5000 ft |
| Operating Relative Humidity | 15% to 95% relative humidity at 113°F (45°C), non-condensing | 15% to 95% relative humidity at 104°F (40°C), non-condensing |
| Non-Operating Temperature | -40°C to 70°C (-40°F to 158°F) up to 4.6km (15,000 ft.) | |
| Non-Operating/Storage Relative Humidity | 15% to 95% at 149°F (65°C) non-condensing | |
| Maximum Operating Altitude | Up to 10,000ft (3.048Km) | |
| Maximum Non-Operating Altitude | Up to 15,000ft (4.6Km) | |
| Primary Airflow | Port to Power (PrtToPwr) | Power to Port (PwrToPrt) |
| BTU/hr | 1,706 | 1,706 |
| Acoustic Sound Pressure and Sound Power[4] | $L_{WAd}$ = 6.7 Bel<br>$L_{pAm}$ (Bystander) = 48.7 dB | $L_{WAd}$ = 6.5 Bel<br>$L_{pAm}$ (Bystander) = 47.6 dB |
| **Notes:**<br>- [3] Derate -1°C for every 1000 ft from 5000 ft to 10000 ft regardless of airflow direction<br>- [4] Reported as "declared A-weighted sound power level" and "mean bystander A-weighted sound pressure level". Acoustics measured in 25°C (77°F) semi-anechoic chamber with a loading of 30% Traffic on all ports. Measured in accordance to ISO 7779. Declared in accordance to ISO 9296.<br>Values presented are the Declared A-Weighted Sound Power Levels ($L_{WAd}$) and Mean Bystander A-weighted Sound Pressure Level ($L_{pAm}$) | | |
| **Electrical Characteristics** | | |
| Frequency | 47-63 Hz | |
| AC Voltage | 7.1A for 100-127VAC | |
| Current | 3.4A for 200-240VAC | |
| Power Consumption | Max: 500W<br>Idle: 120W | |

## Technical Specifications

| | Aruba 8360-48XT4C Port to Power 3 Fans 2 Power Supplies [JL706A] | Aruba 8360-48XT4C Power to Port 3 Fans 2 Power Supplies [JL707A] |
|---|---|---|
| **Regulatory** | | |
| Compliance | Products comply with CE Markings according to directives 2014/30/EU (EMC) and 2014/35/EU (Safety) | |
| RoHS | EN 50581:2012 | |
| **Safety** | | |
| EU | EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013<br>EN62368-1, Ed.2:2014 | |
| North America | UL/CUL 69050-1: 2nd Edition<br>UL/CUL 63268-1:2014<br>UL60950-1, CSA 22.2 No 60950-1 | |
| Worldwide | IEC60950-1:2005 Ed.2 + Am 1:2009 + A2:2013<br>IEC 62368-1:2014 | |
| **EMC** | | |
| Emissions | EN 55024:2010+A2016/CISPR24:2015<br>EN55032:2015/CISPR 32, Class A<br>EN55035:2017/CISPR 35<br>EN61000-3-2:2014, Class A<br>EN61000-3-3:2013<br>FCC CFR 47 Part 15:2010, Class A<br>ICES-003, Class A<br>VCCI Class A<br>CNS 13438<br>CNS 13438 Class A | |
| **Laser** | | |
| | EN60825-1:2014 / IEC 60825-1: 2014 Class 1<br>Class 1 Laser Products / Laser Klasse 1 | |
| **Mounting** | | |
| | Mounts in an EIA standard 19-inch rack or other equipment cabinet; horizontal surface mounting only; 2-post and 4-post mounting options available[5]; air baffle available for 4-post power to port airflow deployment available separately. | |

**Notes:** [5] Rack mounting kit must be ordered separately.

**Table 3**

| | Aruba 8360-12C Port to Power 3 Fans 2 Power Supplies [JL708A] | Aruba 8360-12C Power to Port 3 Fans 2 Power Supplies [JL709A] | Aruba 8360-24XF2C Port to Power 3 Fans 2 Power Supplies [JL710A] | Aruba 8360-24XF2C Power to Port 3 Fans 2 Power Supplies [JL711A] |
|---|---|---|---|---|
| **I/O ports and slots** | | | | |
| | 12 ports of 40GbE/100GbE (QSFP+/QSFP28) (optional 4x10G/25G breakout cables supported) | | 24 ports of 1GbE/10GbE (SFP/SFP+)<br>2 ports of 40GbE/100GbE (QSFP+/QSFP28) (optional 1GBASE-T SFP and 10GBASE-T SFP+ transceivers and 4x10G/25G breakout cables supported) | |
| **Additional ports and slots** | | | | |
| Power Supplies | 2 field-replaceable and hot-swappable power supplies[1] | | | |
| Fans | 3 field-replaceable and hot-swappable fans[2] | | | |
| Management | RJ-45 serial and USB-C console; RJ-45 Ethernet port; USB-Type A | | | |

**Notes:**
- [1]Bundles include the 2 power supplies (2xJL600A in JL708A & JL710A and 2xJL712A in JL709A & JL711A)
- [2]Bundles include the 3 fans (3xJL714A in JL708A & JL710A and 3xJL715A in JL709A & JL710A)

## Technical Specifications

| | Aruba 8360-12C Port to Power 3 Fans 2 Power Supplies [JL708A] | Aruba 8360-12C Power to Port 3 Fans 2 Power Supplies [JL709A] | Aruba 8360-24XF2C Port to Power 3 Fans 2 Power Supplies [JL710A] | Aruba 8360-24XF2C Power to Port 3 Fans 2 Power Supplies [JL711A] |
|---|---|---|---|---|
| **Physical characteristics** | | | | |
| Physical Dimensions (HxWxD) | 1.73in x 17.4in x 16.0in<br>44.0mm x 442.5mm x 406.4mm | | | |
| Full configuration weight | 17.65 lb<br>8.01 kg | | 17.8 lb<br>8.07 kg | |
| **Reliability** | | | | |
| MTBF | 509,714 hrs. | | 375,668 hrs. | |
| **Memory and Processor** | | | | |
| CPU | 1.8 GHz 4-core 64-bit | | | |
| Memory, Drive and Flash | 16GB RAM, 32GB Flash/Storage | | | |
| Packet Buffer | 32MB | | | |
| **Performance** | | | | |
| Switching Capacity | 2.4Tbps | | 880Gbps | |
| MAC Address Table Size | 212,992 | | | |
| IPv4 Host Table | 145,780 | | | |
| IPv6 Host Table | 145,780 | | | |
| IPv4 Unicast Routes | 606,977 | | | |
| IPv6 Unicast Routes | 630,784 | | | |
| Maximum Number of Access Control List (ACL) Entries Ingress | IPv4 65,536, IPv6 16,384, MAC 65,536 | | | |
| Maximum Number of Access Control List (ACL) Entries Egress | IPv4 8,192, IPv6 2,048, MAC 8,192 | | | |
| Maximum VLANs | 4,094 | | | |
| IGMP Groups | 7,000 | | | |
| MLD Groups | 7,000 | | | |
| IPv4 Multicast Routes | 7,000 | | | |
| IPv6 Multicast Routes | 7,000 | | | |
| **Environment** | | | | |
| Operating Temperature[3] | 32°F to 113°F (0°C to 45°C) up to 5000 ft | 32°F to 104°F (0°C to 40°C) up to 5000 ft | 32°F to 113°F (0°C to 45°C) up to 5000 ft | 32°F to 104°F (0°C to 40°C) up to 5000 ft |
| Operating Relative Humidity | 15% to 95% relative humidity at 113°F (45°C), non-condensing | 15% to 95% relative humidity at 104°F (40°C), non-condensing | 15% to 95% relative humidity at 113°F (45°C), non-condensing | 15% to 95% relative humidity at 104°F (40°C), non-condensing |
| Non-Operating Temperature | -40°C to 70°C (-40°F to 158°F) up to 4.6km (15,000 ft.) | | | |
| Non-Operating/Storage Relative Humidity | 15% to 95% at 149°F (65°C) non-condensing | | | |
| Maximum Operating Altitude | Up to 10,000ft (3.048Km) | | | |
| Maximum Non-Operating Altitude | Up to 15,000ft (4.6Km) | | | |
| Primary Airflow | Port to Power (PrtToPwr) | Power to Port (PwrToPrt) | Port to Power (PrtToPwr) | Power to Port (PwrToPrt) |
| BTU/hr | 1,280 | 1,280 | 1,280 | 1,280 |

## Technical Specifications

| | Aruba 8360-12C Port to Power 3 Fans 2 Power Supplies [JL708A] | Aruba 8360-12C Power to Port 3 Fans 2 Power Supplies [JL709A] | Aruba 8360-24XF2C Port to Power 3 Fans 2 Power Supplies [JL710A] | Aruba 8360-24XF2C Power to Port 3 Fans 2 Power Supplies [JL711A] |
|---|---|---|---|---|
| Acoustic Sound Pressure and Sound Power[4] | $L_{WAd}$ = 6.3 Bel<br>$L_{pAm}$ (Bystander) = 46.7 dB | $L_{WAd}$ = 6.2 Bel<br>$L_{pAm}$ (Bystander) = 45.3 dB | $L_{WAd}$ = 6.0 Bel<br>$L_{pAm}$ (Bystander) = 42.6 dB | $L_{WAd}$ = 6.2 Bel<br>$L_{pAm}$ (Bystander) = 44.4 dB |

**Notes:**
- [3] Derate -1°C for every 1000 ft from 5000 ft to 10000 ft regardless of airflow direction
- [4] Reported as "declared A-weighted sound power level" and "mean bystander A-weighted sound pressure level". Acoustics measured in 25°C (77°F) semi-anechoic chamber with a loading of 30% Traffic on all ports. Measured in accordance to ISO 7779. Declared in accordance to ISO 9296.
  Values presented are the Declared A-Weighted Sound Power Levels ($L_{WAd}$) and Mean Bystander A-weighted Sound Pressure Level ($L_{pAm}$)

| | | |
|---|---|---|
| **Electrical Characteristics** | | |
| Frequency | 47-63 Hz | |
| AC Voltage | 7.1A for 100-127VAC<br>3.4A for 200-240VAC | |
| **Current** | | |
| Power Consumption | Max: 375W | Max: 375W |
| | Idle: 120W | Idle: 120W |
| **Regulatory** | | |
| Compliance | Products comply with CE Markings according to directives 2014/30/EU (EMC) and 2014/35/EU (Safety) | |
| RoHS | EN 50581:2012 | |
| **Safety** | | |
| EU | EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013<br>EN62368-1, Ed.2:2014 | |
| North America | UL/CUL 69050-1: 2nd Edition<br>UL/CUL 63268-1:2014<br>UL60950-1, CSA 22.2 No 60950-1 | |
| Worldwide | IEC60950-1:2005 Ed.2 + Am 1:2009 + A2:2013<br>IEC 62368-1:2014 | |
| **EMC** | | |
| Emissions | EN 55024:2010+A2016/CISPR24:2015<br>EN55032:2015/CISPR 32, Class A<br>EN55035:2017/CISPR 35<br>EN61000-3-2:2014, Class A<br>EN61000-3-3:2013<br>FCC CFR 47 Part 15:2010, Class A<br>ICES-003, Class A<br>VCCI Class A<br>CNS 13438<br>CNS 13438 Class A | |
| **Laser** | | |
| | EN60825-1:2014 / IEC 60825-1: 2014 Class 1<br>Class 1 Laser Products / Laser Klasse 1 | |
| **Mounting** | | |
| | Mounts in an EIA standard 19-inch rack or other equipment cabinet; horizontal surface mounting only; 2-post and 4-post mounting options available[5]; air baffle available for 4-post power to port airflow deployment available separately | |

**Notes:** [5] Rack mounting kit must be ordered separately.

# Technical Specifications

## Standards and protocols

Applies to all products in series

- IEEE 802.1AB-2009
- IEEE 802.1AE (JL363A only)
- 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 802.3ae 10 Gigabit Ethernet
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- IEEE 802.3ba 40 Gigabit Ethernet Architecture
- IEEE 802.3x Flow Control
- IEEE 802.3z Gigabit Ethernet
- RFC 768 UDP
- RFC 791 IP
- RFC 792 ICMP
- RFC 793 TCP
- RFC 813 Window and Acknowledgement Strategy in TCP
- RFC 815 IP datagram reassembly algorithms
- RFC 826 ARP
- RFC 879 TCP maximum segment size and related topics
- RFC 896 Congestion control in IP/TCP internetworks
- RFC 917 Internet subnets
- RFC 919 Broadcasting Internet Datagrams
- RFC 922 Broadcasting Internet Datagrams in the Presence of Subnets (IP_BROAD)
- RFC 925 Multi-LAN address resolution
- RFC 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

## Technical Specifications

- 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

## Summary of Changes

| Date | Version History | Action | Description of Change |
|---|---|---|---|
| 02-Nov-2020 | Version 1 | New | New QuickSpecs |

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a00094643enw - 16627 - Worldwide - V1 - 02-November-2020