QuickSpecs

Overview

Aruba 5400R zl2 Switch Series

The Aruba 5400R zl2 Switch Series delivers enterprise-class resiliency with innovative flexibility and scalability for customers creating smart digital workplaces that are optimized for mobile users with an integrated wired and wireless approach. This modular series brings scalable aggregation with Virtual Switching Framework (VSF) stacking technology, hitless failover, and Fast Software Upgrade for 5400R VSF stacks. The advanced Layer 2 and 3 feature set includes OSPF, IPv6, IPv4 BGP, dynamic segregation, robust QoS and policy-based routing with no software licensing required.

Based on a powerful ProVision ASIC, the Aruba 5400R zl2 Switch Series has a high-speed, high-capacity architecture with 2 Tbps crossbar switching fabric with low 2.1μ robust feature support, and value with flexible programmability for the latest applications. This series offers flexible connectivity options with 6 or 12 slot compact chassis, line rate 40GbE, up to 96 line rate Smart Rate multigigabit or 10GbE ports and up to 288 ports of PoE+ for powering access points, cameras and IoT devices. The 5400R is easy to deploy, use and manage using Aruba AirWave or Aruba Central. Aruba ClearPass offers centralized security and external captive portal support. The switches include a Limited Lifetime Warranty.



Aruba 5412R zl2 Switch

Key Features

- Powerful Aruba Layer 3 modular switch with VSF stacking, dynamic segmentation, low latency and resiliency.
- HPE Smart Rate for high speed multi gigabit bandwidth and PoE+ power.
- Scalable with line rate 40GbE for wireless traffic aggregation.
- Resilient with redundant management and hot swappable power supplies.
- Up to 288 ports of PoE+
- Software-defined ready with REST APIs and OpenFlow support.
- Advanced security and network management via Aruba ClearPass Policy Manager, Aruba AirWave and Aruba Central



QuickSpecs Aruba 5400R zl2 Switch Series

Overview

Models

Aruba 5406R zl2 Switch	J9821A
Aruba 5412R zl2 Switch	J9822A
Aruba 5412R 92GT PoE+ and 4 port SFP+ (No PSU) v3 zl2 Switch	JL001A
Aruba 5406R 8-port 1/2.5/5/10GBASE-T PoE+ / 8-port SFP+ (No PSU) v3 zl2 Switch	JL002A
Aruba 5406R 44GT PoE+ and 4 port SFP+ (No PSU) v3 zl2 Switch	JL003A
Aruba 5406R 16-port SFP+ (No PSU) v3 zl2 Switch	JL095A

Enhanced Capabilities

Simplified configuration and management

• Aruba Central cloud-based management platform

Offers simple, secure, and cost effective way to manage switches

• Zero Touch ProVisioning (ZTP)

Simplifies installation of the switch infrastructure using Aruba Activate-based or DHCP based process with AirWave and Central Network Management

• Flexible management

Supports both cloud-based Central and on-premise AirWave without ripping and replacing switching infrastructure

• IP SLA for Voice

Monitors quality of voice traffic using the UDP Jitter and UDP Jitter for VoIP tests (requires v3 modules).

• Built-in programmable and easy to use REST API interface

provides configuration automation for campus networks

Remote intelligent mirroring

Mirrors selected ingress/egress traffic based on ACL, port, MAC address, or VLAN to a local or remote HPE 8200 zl, 6600, 6200 yl, 5400 zl, 5400R, 3500, or 3800 Switch located anywhere on the network

RMON, XRMON, and sFlow

Provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events

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

Unidirectional link detection (UDLD)

Monitors the link between two switches and blocks the ports on both ends of the link if the link goes down at any point between the two devices

Management simplicity

Provides common software features and CLI implementation across all HPE ProVision-based switches (including the zl and yl switches)

• Command authorization

Leverages RADIUS to link a custom list of CLI commands to an individual network administrator's login; an audit trail documents activity

• Friendly port names

Allow assignment of descriptive names to ports

Dual flash images

Provides independent primary and secondary operating system files for backup while upgrading

• Multiple configuration files

Stores easily to the flash image

Connectivity

IEEE 802.3az Energy Efficient Ethernet

lowers power consumption in periods of low link usage (supported on v2 and higher 10/100/1000 and 10/100 modules)

IEEE 802.3at Power over Ethernet (PoE+)

provides up to 30 W per port that allows support of the latest PoE+ capable devices such as IP phones, wireless access points, and security cameras, as well as any IEEE 802.3af-compliant end device; eliminates the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments

Support for pre-standard PoE

detects and provides power to pre-standard PoE devices

High-density port connectivity

provides up to 12 interface module slots and up to 288 wire-speed 10/100/1000 PoE-enabled ports, 96 10-GbE ports , or 96 Smart Rate multi-gigabit ports per system

Jumbo frames

support high-performance remote backup and disaster-recovery services

Auto-MDIX

provides automatic adjustments for straight-through or crossover cables on all 10/100 and 10/100/1000 ports

Resiliency and high availability

• Virtual Switching Framework (VSF)

creates one virtual resilient switch from two switches; servers or switches can be attached using standard LACP for automatic load balancing and high availability; simplify network operation by reduce the need for complex protocols like Spanning Tree Protocol (STP), Equal-Cost Multipath (ECMP), and VRRP (requires v3 modules).

• Fast Software Upgrade

reduces downtime of the VSF stack during an upgrade by sequentially upgrading the members in the stack shrinking the downtime to a few seconds (requires v3 modules).

Virtual Router Redundancy Protocol (VRRP)

allows groups of two routers to dynamically back each other up to create highly available routed environments for IPv4 and IPv6 networks

Nonstop switching

improves network availability to better support critical applications such as unified communication and mobility; interface and fabric modules continue switching traffic during failover from active to standby management module

Nonstop routing

enhances Layer 3 high availability; OSPFv2/v3 and VRRP will continue to operate and route network traffic during failover from an active to a standby management module

• Redundant management and power

provide enhanced system availability and continuity of operations

• IEEE 802.1s Multiple Spanning Tree Protocol

provides high link availability in multiple VLAN environments by allowing multiple spanning trees; encompasses IEEE 802.1D Spanning Tree Protocol and IEEE 802.1w Rapid Spanning Tree Protocol

• IEEE 802.3ad Link Aggregation Control Protocol (LACP) and Hewlett Packard Enterprise port trunking support up to 144 trunks, each with up to eight links (ports) per trunk

Distributed trunking

enables loop-free and redundant network topology without using Spanning Tree Protocol; allows a server or switch to connect to two switches using one logical trunk for redundancy and load sharing

Optional redundant power supply

provides uninterrupted power and allows hot-swapping of the redundant power supplies when installed

• Hot-swappable modules

allows dissimilar modules, and power supplies in a redundant power supply configuration to be added or swapped without interrupting the network

• Sparing simplicity

with zl-common accessories (interface modules and power supplies)

• Uplink Failure Detection

provides active-standby network path redundancy for servers that are configured for active-standby NIC teaming

• SmartLink

provides easy-to-configure link redundancy of active and standby links

Performance

High-speed, high-capacity architecture

2 Tbps crossbar switching fabric provides intra-module and inter-module switching with 785.7 million pps throughput on the purpose-built ProVision ASICs

Selectable queue configurations

allows for increased performance by selecting the number of queues and associated memory buffering that best meet the requirements of the network applications

Software-defined networks

• Multiple programmatic interfaces

Supports REST APIs, Openflow 1.0 and 1.3, and more, to enable automation of network operations, monitoring, and troubleshooting.

Quality of Service (QoS)

Advanced classifier-based QoS

Classifies traffic using multiple match criteria based on Layer 2, 3, and 4 information; applies QoS policies such as setting priority level and rate limit to selected traffic on a per-port or per-VLAN basis

• Traffic prioritization

Allows real-time traffic classification into eight priority levels mapped to eight queues

Bandwidth shaping

Port-based rate limiting

provides per-port ingress-/egress-enforced increased bandwidth

Classifier-based rate limiting

uses an access control list (ACL) to enforce increased bandwidth for ingress traffic on each port

Supports per-port, per-queue

egress-based reduced bandwidth

• Class of Service (CoS)

Sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ

 Unknown Unicast Rate Limiting throttles unicast packets with unknown destination addresses and limits flooding on the VLAN

Unified Wired and Wireless Support

Supports unified wired and wireless policies

Using Aruba ClearPass Policy Manager

Switch auto-configuration

Automatically configures switch for different settings such as VLAN, CoS, PoE max power, and PoE priority when an Aruba access point is detected.

User role

Defines a set of switch-based policies in areas such as security, authentication, and QoS. A user role can be assigned to a group of users or devices, using switch-based local user role or download from ClearPass.

Improved network simplicity and security

Aruba Dynamic Segmentation automatically enforces user, device and application-aware policies on Aruba wired and
wireless networks. Automated device profiling, role-based access control, and Layer 7 firewall features deliver enhanced
visibility and performance for a better overall experience for both IT and end-users alike.

• Dynamic segregation

Provides a secured tunnel to transport network traffic on a per-port or per-user-role basis to an Aruba Controller. In per-user-role Tunneled Node, users are authenticated with ClearPass Policy Manager which can direct the traffic to be tunneled to Aruba controller or switch locally.

• Static IP visibility

Provides a way for ClearPass to do accounting for clients with static IP addresses

Layer 3 routing

Static IP routing

provides manually configured routing for both IPv4 and IPv6 networks

Routing Information Protocol (RIP)

provides RIPv1, RIPv2, and RIPng routing

OSPF

provides OSPFv2 for IPv4 routing and OSPFv3 for IPv6 routing

Policy-based routing

uses a classifier to select traffic that can be forwarded based on policy set by the network administrator (requires v2 or higher modules)

• Border Gateway Protocol (BGP)

• provides IPv4 Border Gateway Protocol routing, which is scalable, robust, and flexible

Layer 3 services

• Bidirectional Forwarding Detection (BFD)

monitor link connectivity and reduces network convergence time for OSPFv2, and VRRP (requires v3 modules)

• User Datagram Protocol (UDP) helper function

allows UDP broadcasts to be directed across router interfaces to specific IP unicast or subnet broadcast addresses and prevents server spoofing for UDP services such as DHCP

Loopback interface address

defines an address in Routing Information Protocol (RIP) and Open Standard Path First (OSPF), improving diagnostic capability

Route maps

provide more control during route redistribution; allow filtering and altering of route metrics

DHCP server

centralizes and reduces the cost of IPv4 address management

IPv6

- IPv6 host
- enables switch management in an IPv6 network
- Dual stack (IPv4 and IPv6)
- transitions IPv4 to IPv6, supporting connectivity for both protocols
- MLD snooping
- forwards IPv6 multicast traffic to the appropriate interface
- IPv6 ACL/QoS
- supports ACL and QoS for IPv6 traffic
- IPv6 routing
- supports static, RIPng, OSPFv3 routing protocols
- 6in4 tunneling
- supports encapsulation of IPv6 traffic in IPv4 packets
- Security

provides RA guard, DHCPv6 protection, dynamic IPv6 lockdown, and ND snooping

Layer 2 switching

VLAN support and tagging

supports the IEEE 802.1Q standard and 4094 VLANs simultaneously

IEEE 802.1v protocol VLANs

isolate select non-IPv4 protocols automatically into their own VLANs

VxLAN

encapsulation (tunneling) protocol for overlay network that enables a more scalable virtual network deployment (requires v3 modules)

GVRP and MVRP

allows automatic learning and dynamic assignment of VLANs

IEEE 802.1ad Q-in-Q

increases the scalability of an Ethernet network by providing a hierarchical structure; connects multiple LANs on a high-speed campus or metro network

MAC-based VLAN

provides granular control and security; uses RADIUS to map a MAC address/user to specific VLANs (requires v2 or higher modules)

Rapid Per-VLAN Spanning Tree (RPVST+)

allows each VLAN to build a separate spanning tree to improve link bandwidth usage; is compatible with PVST+

Hewlett Packard Enterprise switch meshing

dynamically load balances across multiple active redundant links to increase available aggregate bandwidth; allows concurrent Layer 3 routing with v2 or higher modules

Security

Control plane policing

sets rate limit on control protocols to protect CPU overload from DOS attacks

Access control lists (ACLs)

provide filtering based on the IP field, source/destination IP address/subnet, and source/destination TCP/UDP port number on a per-VLAN or per-port basis

• Multiple user authentication methods

- uses an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server to authenticate in accordance with industry standards
- Web-based authentication provides a browser-based environment, similar to IEEE 802.1X, to authenticate clients that do not support IEEE 802.1X
- Supports MAC-based client authentication MAC-based authentication
- Concurrent IEEE 802.1X, Web, and MAC authentication schemes per switch port accepts up to 32 sessions of IEEE 802.1X, Web, and MAC authentications

Private VLAN

provides network security by restricting peer-to-peer communication to prevent a variety of malicious attacks; typically a switch port can only communicate with other ports in the same community and/or an uplink port, regardless of VLAN ID or destination MAC address

• DHCP protection

blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks

Secure management access

delivers secure encryption of all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3

Switch CPU protection

provides automatic protection against malicious network traffic trying to shut down the switch

ICMP throttling

defeats ICMP denial-of-service attacks by enabling any switch port to automatically throttle ICMP traffic

Identity-driven ACL

enables implementation of a highly granular and flexible access security policy and VLAN

assignment specific to each authenticated network user

STP BPDU port protection

blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks

Dynamic IP lockdown

works with DHCP protection to block traffic from unauthorized hosts, preventing IP source address spoofing

• Dynamic ARP protection

blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data

STP Root Guard

protects the root bridge from malicious attacks or configuration mistakes

• Detection of malicious attacks

monitors 10 types of network traffic and sends a warning when an anomaly that potentially can be caused by malicious attacks is detected

Port security

allows access only to specified MAC addresses, which can be learned or specified by the administrator

MAC address lockout

prevents particular configured MAC addresses from connecting to the network

Source-port filtering

allows only specified ports to communicate with each other

RADIUS/TACACS+

eases switch management security administration by using a password authentication server

Secure Shell

encrypts all transmitted data for secure remote CLI access over IP networks

Radius over TLS (RadSec)

allows users to use a more secure and reliable mode of communications between switch and radius servers over unsecure networks

Secure Sockets Layer (SSL)

encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch

Secure FTP

allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file

• Open Authentication Role

simplifies first-time deployment of AAA in brownfield deployments by allowing full network access for failed clients and provides instant connectivity as soon as a client is plugged-in

• Critical Authentication Role

ensures that important infrastructure devices such as IP phones are allowed network access even in the absence of a RADIUS server

MAC Pinning

allows non-chatty legacy devices to stay authenticated by pinning client MAC addresses to the port until the clients logoff or get disconnected

Management Interface Wizard

helps secure management interfaces such as SNMP, telnet, SSH, SSL, Web, and USB at the desired level

Switch management logon security

helps secure switch CLI logon by optionally requiring either RADIUS or TACACS+ authentication

Security banner

displays a customized security policy when users log in to the switch

IEEE 802.1AE MACsec

provides security on a link between two switch ports (1Gbps or 10Gbps) using standard encryption and authentication based on pre-shared key. MACsec software support not yet available for modules with Smart Rate ports (requires v3 modules)

Enrollment over Secure Transport (EST)

enhances the switch PKI infrastructure with a simpler, scalable and more secure method of certificate provisioning, reenrollment and renewal

Convergence

IP multicast routing

includes PIM Sparse and Dense modes to route IP multicast traffic

• **IP multicast snooping** (data-driven IGMP)

automatically prevents flooding of IP multicast traffic

• Protocol Independent Multicast for IPv6

supports one-to-many and many-to-many media casting use cases such as IPTV over IPv6 networks

• LLDP-MED (Media Endpoint Discovery)

defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN to configure automatically network devices such as IP phones

PoE allocations

support multiple methods (automatic, IEEE 802.3af class, LLDP-MED, or user specified) to allocate PoE power for more efficient energy savings

Auto VLAN configuration for voice

- RADIUS VLAN: uses a standard RADIUS attribute and LLDP-MED to automatically configure a VLAN for IP phones
- CDPv2: uses CDPv2 to configure legacy IP phones

Local MAC Authentication

assigns attributes such as VLAN and QoS using locally configured profile that can be a list of MAC prefixes

Customer first, customer last support

When your network is important to your business, then your business needs the backing of Aruba Support Services. Partner with Aruba product experts to increase your team productivity, keep pace with technology advances, software releases, and obtain break-fix support.

- Foundation Care for Aruba support services include priority access to Aruba Technical Assistance Center(TAC) engineers 24x7x365, flexible hardware and onsite support options, and total coverage for Aruba products. Aruba switches with assigned Aruba Central subscriptions benefit with option for additional hardware support only.
- Aruba Pro Care adds fast access to senior Aruba TAC engineers, who are assigned as a single point of contact for case management, reducing the time spent addressing and resolving issues.

For complete details on Foundation Care and Aruba Pro Care, please visit: https://www.arubanetworks.com/supportservices/

Warranty, Services and Support

- Limited Lifetime Warranty
 See https://www.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://www.arubanetworks.com/support-services/arubacare/

Build To Order:

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

BTO Models

Rule # Description SKU

Aruba 5406R zl2 Switch

J9821A

- 1 Power Supply required
- 1 Fan Tray Included
- 1 Management module included
- 1 RJ-45 out-of-band management port
- 4U Height
- 1, 2 Aruba 5406R 8-port 1/2.5/5/10GBASE-T PoE+ / 8-port SFP+ (No PSU) v3 zl2 Switch

JL002A

- 1 Power Supply required
- 8 RJ-45 10GbE PoE+ ports
- 1 J9995A Aruba 8-port 1/2.5/5/10GBASE-T PoE+ MACsec v3 zl2 Module included
- 1 J9993A Aruba 8-port 1G/10GbE SFP+ MACsec v3 zl2 Module included (min=0 \ max=8 SFP+ Transceivers)
- 1 Fan Tray Included
- 1 Management module included
- 1 RJ-45 out-of-band management port
- 4U Height
- 1, 2 Aruba 5406R 16-port SFP+ (No PSU) v3 zl2 Switch

JL095A

- 1 Power Supply required
- 2 J9993A Aruba 8-port 1G/10GbE SFP+ MACsec v3 zl2 Module included (min=0 \ max=16 SFP+ Transceivers)
- 1 Fan Tray Included
- 1 Management module included
- 1 RJ-45 out-of-band management port
- 4U Height
- 1, 2 Aruba 5406R 44GT PoE+ and 4 port SFP+ (No PSU) v3 zl2 Switch

JL003A

- 1 Power Supply required
- 1 J9990A Aruba 20-port 10/100/1000BASE-T PoE+ / 4-port 1G/10GbE SFP+ MACsec v3 zl2 Module included (min=0 \ max=4 SFP Transceivers)
- 1 J9986A Aruba 24-port 10/100/1000BASE-T PoE+ MACsec v3 zl2 Module included
- 1 Fan Tray Included
- 1 Management module included
- 1 RJ-45 out-of-band management port
- 4U Height

Aruba 5412R zl2 Switch

J9822A

- 2 Power Supplies required
- 1 Fan Tray Included
- 1 Management module included
- 1 RJ-45 out-of-band management port
- 7U Height

1, 2	Aruba 5412R 92GT PoE+ and 4 port SFP+ (No PSU) v3 zl2 Switch	JL001A
	2 Power Supplies required	
	 1 - J9990A Aruba 20-port 10/100/1000BASE-T PoE+ / 4-port 1G/10GbE SFP+ MACsec 	
	v3 zI2 Module included (min=0 \ max=4 SFP Transceivers)	
	• 3 - J9986A Aruba 24-port 10/100/1000BASE-T PoE+ MACsec v3 zl2 Modules included	
	• 1 Fan Tray Included	
	1 Management module included	
	1 RJ-45 out-of-band management port	
	• 7U - Height	
	Configuration Rules	
Rule #	Description	SKU
1	The following Transceivers install into this Chassis :	
	Aruba 1G SFP LC SX 500m OM2 MMF Transceiver	J4858D
	Aruba 1G SFP LC LX 10km SMF Transceiver	J4859D
	Aruba 1G SFP LC LH 70km SMF Transceiver	J4860D
	Aruba 1G SFP RJ45 T 100m Cat5e Transceiver	J8177D
	Aruba 100M SFP LC FX 2km MMF Transceiver	J9054D
	Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9034D J9150D
	Aruba 10G SFP+ LC LRM 220m OM2 MMF Transceiver	J9152D
	Aruba 10G SFP+ LC ERM 22011 OM2 MIMF Transceiver Aruba 10G SFP+ LC ER 40km SMF Transceiver	J9152D J9153D
		J9133D J9281D
	Aruba 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	
	Aruba 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283D
2	Aruba 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285D
2	The following Transceivers install into this Chassis:	U 7/ E A
	Aruba 1G SFP LC SX 500m MMF TAA Transceiver	JL745A
	Aruba 1G SFP LC LX 10km SMF TAA Transceiver	JL746A
	Aruba 1G SFP RJ45 T 100m Cat5e TAA Transceiver	JL747A
	Aruba 10G SFP+ LC SR 300m MMF TAA Transceiver	JL748A
	Aruba 10G SFP+ LC LR 10km SMF TAA Transceiver	JL749A
Rack Lev	vel Integration CTO Models	
Rule #	Description	SKU
11	Aruba 5406R zl2 Switch	J9821A
	1 Power Supply required	3702171
	1 Fan Tray Included	
	1 Management module included	
	1 RJ-45 out-of-band management port	
	4U - Height	
1, 2, 11	Aruba 5406R 8-port 1/2.5/5/10GBASE-T PoE+ / 8-port SFP+ (No PSU) v3 zl2 Switch	JL002A
_ , _ , _ , _	10.00	32002/1
	 1 Power Supply required 8 RJ-45 10GbE PoE+ ports 	
	 1 - J9995A Aruba 8-port 1/2.5/5/10GBASE-T PoE+ MACsec v3 zl2 Module included 	
	1 - J9993A Aruba 8-port 1G/10GbE SFP+ MACsec v3 zl2 Module included 1 - J9993A Aruba 8-port 1G/10GbE SFP+ MACsec v3 zl2 Module included (min=0 \ max=8)	
	SFP+ Transceivers)	
	1 Fan Tray Included	
	1 Management module included	
	1 RJ-45 out-of-band management port	
	4U - Height	

gu		
1, 2, 11	Aruba 5406R 16-port SFP+ (No PSU) v3 zl2 Switch	JL095A
, ,	1 Power Supply required	
	• 2 - J9993A Aruba 8-port 1G/10GbE SFP+ MACsec v3 zl2 Module included (min=0 \	
	max=16 SFP+ Transceivers)	
	• 1 Fan Tray Included	
	1 Management module included	
	 1 RJ-45 out-of-band management port 	
	• 4U - Height	
1, 2, 11	Aruba 5406R 44GT PoE+ and 4 port SFP+ (No PSU) v3 zl2 Switch	JL003A
	1 Power Supply required	
	 1 - J9990A Aruba 20-port 10/100/1000BASE-T PoE+ / 4-port 1G/10GbE SFP+ MACsec 	
	v3 zl2 Module included (min=0 \ max=4 SFP Transceivers)	
	 1 - J9986A Aruba 24-port 10/100/1000BASE-T PoE+ MACsec v3 zl2 Module included 	
	1 Fan Tray Included	
	1 Management module included	
	1 RJ-45 out-of-band management port	
	4U - Height Aruba F (13R = 13 Switch)	100224
	Aruba 5412R zl2 Switch	J9822A
	2 Power Supplies required 1 For Travelladed	
	1 Fan Tray Included 1 Management module included	
	1 Management module included 1 DL / E out of hand management part	
	1 RJ-45 out-of-band management port7U - Height	
1, 2, 11	Aruba 5412R 92GT PoE+ and 4 port SFP+ (No PSU) v3 zl2 Switch	JL001A
1, 2, 11	·	JLOOIA
	 2 Power Supplies required 1 - J9990A Aruba 20-port 10/100/1000BASE-T PoE+ / 4-port 1G/10GbE SFP+ MACsec 	
	v3 zl2 Module included (min=0 \ max=4 SFP Transceivers)	
	3 - J9986A Aruba 24-port 10/100/1000BASE-T PoE+ MACsec v3 zl2 Modules included	
	• 1 Fan Tray Included	
	1 Management module included	
	1 RJ-45 out-of-band management port	
	• 7U - Height	
	Configuration Rules	
Rule #	Description	SKU
1	The following Transceivers install into this Chassis:	
	Aruba 1G SFP LC SX 500m OM2 MMF Transceiver	J4858D
	Aruba 1G SFP LC LX 10km SMF Transceiver	J4859D
	Aruba 1G SFP LC LH 70km SMF Transceiver	J4860D
	Aruba 1G SFP RJ45 T 100m Cat5e Transceiver	J8177D
	Aruba 100M SFP LC FX 2km MMF Transceiver	J9054D
	Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9150D
	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
	Aruba 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285D
	Aruba 10G SFP+ LC LR 10km SMF Transceiver	J9151E
2	The following Transceivers install into this Chassis:	

Aruba 1G SFP LC SX 500m MMF TAA Transceiver

JL745A

Arı	uba 1G SFP LC LX 10km SMF TAA Transceiver	JL746A
Arı	uba 1G SFP RJ45 T 100m Cat5e TAA Transceiver	JL747A
Arı	uba 10G SFP+ LC SR 300m MMF TAA Transceiver	JL748A
Arı	uba 10G SFP+ LC LR 10km SMF TAA Transceiver	JL749A
	the CTO Switch Chassis needs to be racked, Then the CTO Base Model needs to integrate (with 01) to the HPE Rack.	

Enter the following menu selections as integrated to the CTO Model X server above if order is factory built.

Modules

Rule #	Description	SKU
	Management Modules	
	(J9821A, JL002A, JL095A, JL003A, J9822A, JL001A) System (std 1 // max 2) User Selection (min 0 / max 1)	
	Aruba 5400R zl2 Management Module	J9827A
	No Transceivers	
	I/O Modules	
	J9821A only - System (std 0 // max=6) User Selection (min 0 / max=6) per Chassis	
	J9822A only - System (std 0 // max=12) User Selection (min 0 / max=12) per Chassis	
	JL002A, JL095A, JL003A only - System (std 2 // max=6) User Selection (min 0 / max=4) per Chassis	
	JL001A only - System (std 4 // max=12) User Selection (min 0 / max=8) per Chassis	
	Aruba 20-port 10/100/1000BASE-T PoE+ / 4-port 1/2.5/5/10GBASE-T PoE+ MACsec v3 zl2 Module	J9991A
	No Transceivers	
6	Aruba 20-port 10/100/1000BASE-T PoE+ MACsec / 1-port 40GbE QSFP+ v3 zl2 Module	J9992A
	 min=0 \ max=1 QSFP+ Transceiver 	
1, 2	Aruba 24-port 1GbE SFP MACsec v3 zl2 Module	J9988A
	 min=0 \ max=24 SFP Transceivers 	
1, 2	Aruba 12-port 10/100/1000BASE-T PoE+ / 12-port 1GbE SFP MACsec v3 zl2 Module • min=0 \ max=12 SFP Transceivers	J9989A
2, 3, 5	Aruba 8-port 1G/10GbE SFP+ MACsec v3 zl2 Module	J9993A
	 min=0 \ max=8 SFP/SFP+ Transceivers 	
2, 3, 5	Aruba 20-port 10/100/1000BASE-T PoE+ / 4-port 1G/10GbE SFP+ MACsec v3 zl2 Module	J9990A
	 min=0 \ max=8 SFP/SFP+ Transceivers 	
	Aruba 8-port 1/2.5/5/10GBASE-T PoE+ MACsec v3 zl2 Module	J9995A
	No Transceivers	
	Aruba 24-port 10/100/1000BASE-T PoE+ MACsec v3 zl2 Module	J9986A
	No Transceivers	
	Aruba 24-port 10/100/1000BASE-T MACsec v3 zl2 Module	J9987A
	No Transceivers	
6	Aruba 2-port 40GbE QSFP+ v3 zl2 Module	J9996A
	 min=0 \ max=2 QSFP+ Transceivers 	

Configuration Rules Rule # **Description** SKU 1 The following Transceivers install into this Module: (Use #0D1 if switch is CTO) - if applicable Aruba 1G SFP LC SX 500m OM2 MMF Transceiver J4858D Aruba 1G SFP LC LX 10km SMF Transceiver J4859D Aruba 1G SFP LC LH 70km SMF Transceiver J4860D Aruba 1G SFP RJ45 T 100m Cat5e Transceiver J8177D Aruba 100M SFP LC FX 2km MMF Transceiver J9054D 2 The following Transceivers install into this Chassis: (Use 0D1 if switch is CTO) - if applicable Aruba 1G SFP LC SX 500m MMF TAA Transceiver JL745A Aruba 1G SFP LC LX 10km SMF TAA Transceiver JL746A Aruba 1G SFP RJ45 T 100m Cat5e TAA Transceiver JL747A The following Transceivers install into this Chassis: (Use OD1 if switch is CTO) - if applicable 3 Aruba 10G SFP+ LC SR 300m MMF TAA Transceiver JL748A Aruba 10G SFP+ LC LR 10km SMF TAA Transceiver JL749A 5 The following Transceivers install into this Module: (Use #0D1 or #B01 if switch is CTO) - if applicable Aruba 1G SFP LC SX 500m OM2 MMF Transceiver J4858D Aruba 1G SFP LC LX 10km SMF Transceiver J4859D J4860D Aruba 1G SFP LC LH 70km SMF Transceiver Aruba 1G SFP RJ45 T 100m Cat5e Transceiver J8177D J9054D Aruba 100M SFP LC FX 2km MMF Transceiver Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver J9150D Aruba 10G SFP+ LC LRM 220m OM2 MMF Transceiver J9152D J9153D Aruba 10G SFP+ LC ER 40km SMF Transceiver J9281D Aruba 10G SFP+ to SFP+ 1m Direct Attach Copper Cable J9283D Aruba 10G SFP+ to SFP+ 3m Direct Attach Copper Cable Aruba 10G SFP+ to SFP+ 7m Direct Attach Copper Cable J9285D 6 The following Transceivers install into this Module: (Use #0D1 or #B01 if switch is CTO) - if applicable HPE X142 40G QSFP+ MPO SR4 Transceiver JH231A HPE X142 40G QSFP+ LC LR4 SM Transceiver JH232A HPE X142 40G QSFP+ MPO eSR4 300M Transceiver JH233A Aruba 40G QSFP+ LC Bidirectional 150m MMF 2-strand Transceiver JL308A HPE X242 40G QSFP+ to QSFP+ 1m Direct Attach Copper Cable JH234A HPE X242 40G QSFP+ to QSFP+ 3m Direct Attach Copper Cable JH235A

HPE X242 40G QSFP+ to QSFP+ 5m Direct Attach Copper Cable

JH236A

Transceivers

i i alisce	ivei 5	
Rule #	Description	SKU
	SFP Transceivers	
	Aruba 100M SFP LC FX 2km MMF Transceiver	J9054D
	Aruba 1G SFP LC SX 500m OM2 MMF Transceiver	J4858D
	Aruba 1G SFP LC LX 10km SMF Transceiver	J4859D
	Aruba 1G SFP LC LH 70km SMF Transceiver	J4860D
	Aruba 1G SFP RJ45 T 100m Cat5e Transceiver	J8177D
	Aruba 1G SFP LC SX 500m MMF TAA Transceiver	JL745A
	Aruba 1G SFP LC LX 10km SMF TAA Transceiver	JL746A
	Aruba 1G SFP RJ45 T 100m Cat5e TAA Transceiver	JL747A
	SFP+ Transceivers	
	Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9150D
	Aruba 10G SFP+ LC LRM 220m OM2 MMF Transceiver	J9152D
	Aruba 10G SFP+ LC ER 40km SMF Transceiver	J9153D
	Aruba 10G SFP+ LC SR 300m MMF TAA Transceiver	JL748A
	Aruba 10G SFP+ LC LR 10km SMF TAA Transceiver	JL749A
	Aruba 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281D
	Aruba 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283D
	Aruba 10G SFP+ to SFP+ 7m Direct Attach Copper Cable Aruba 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285D
	QSFP+ Transceivers	J4203D
	HPE X142 40G QSFP+ MPO SR4 Transceiver	ш 1271 л
		JH231A
	HPE X142 40G QSFP+ LC LR4 SM Transceiver	JH232A
	HPE X142 40G QSFP+ MPO eSR4 300M Transceiver	JH233A
	Aruba 40G QSFP+ LC Bidirectional 150m MMF 2-strand Transceiver	JL308A
	HPE X242 40G QSFP+ to QSFP+ 1m Direct Attach Copper Cable	JH234A
	HPE X242 40G QSFP+ to QSFP+ 3m Direct Attach Copper Cable	JH235A JH236A
	HPE X242 40G QSFP+ to QSFP+ 5m Direct Attach Copper Cable	
Internal	Power Supplies	
	(J9821A, JL002A, JL095A, JL003A) System (std 0 // max 2) User Selection (min 1 / max 2)	
	(J9822A, JL001A) System (std 0 // max 4) User Selection (min 2 / max 4)	
2, 4, 6, 7	Aruba 5400R 700W PoE+ zl2 Power Supply	J9828A
	• includes 1 x c13, 700w	
	Aruba 5400R 700W PoE+ zl2 Power Supply PDU NA, JP or TW	J9828A#B2B
	 HPE 2.5M C15 to C14 N.A. Power Cord(J9943A) 	
	Aruba 5400R 700W PoE+ zl2 Power Supply PDU ROW	J9828A#B2C
	 HPE 2.5M C15 to C14 ROW Power Cord (J9944A) 	370207111020
	Aruba 5400R 700W PoE+ zl2 Power Supply United States 220 volt	J9828A#B2E
		J70ZOA#DZL
	HPE 2.5m C15 to NEMA 6-20P 250V Non-locking Power Cord (JL336A) Aruba F (OOR 700W Ref Lat 2 Rower Supply)	100204#467
	Aruba 5400R 700W PoE+ zl2 Power Supply	J9828A#AC3
0 / / 7	No Localized Power Cord Selected	10000 4
2, 4, 6, 7	Aruba 5400R 1100W PoE+ zl2 Power Supply	J9829A
	• includes 1 x c15, 1100w	
	Aruba 5400R 1100W PoE+ zl2 Power Supply PDU NA, JP or TW	J9829A#B2B
	 HPE 2.5M C15 to C14 N.A. Power Cord(J9943A) 	
	Aruba 5400R 1100W PoE+ zl2 Power Supply PDU ROW	J9829A#B2C
	 HPE 2.5M C15 to C14 ROW Power Cord (J9944A) 	

	Aruba 5400R 1100W PoE+ zl2 Power Supply United States 220 volt	J9829A#B2E
	HPE 2.5m C15 to NEMA 6-20P 250V Non-locking Power Cord (JL336A) Aruba 5400R 1100W PoE+ zl2 Power Supply	J9829A#AC3
2, 4, 6, 7	No Localized Power Cord Selected Aruba 5400R 2750W PoE+ zl2 Power Supply includes 3 v s10 - 3750vv	J9830B
	 includes 2 x c19, 2750w Aruba 5400R 2750W PoE+ zl2 Power Supply PDU NA, JP or TW 	J9830B#B2B
	 HPE 2.5m C19 to C20 250V PDU Power Cord (JL342A) 	
	Aruba 5400R 2750W PoE+ zl2 Power Supply PDU ROW	J9830B#B2C
	 HPE 2.5m C19 to C20 250V PDU Power Cord (JL342A) 	
	Aruba 5400R 2750W PoE+ zl2 Power Supply United States 220 volt	J9830B#B2E
	 HPE 2.5m C19 to NEMA 6-20P 250V 20Amp Non-locking Power Cord(JL351A) 	
	Aruba 5400R 2750W PoE+ zl2 Power Supply	J9830B#AC3
	No Localized Power Cord Selected	
	Configuration Rules	
Rule #	Description	SKU
2	Localization required on orders without #B2B, #B2C or #B2E options.	
4	This power supply is ONLY supported on the following switches.	
	Aruba 5406R zl2 Switch	J9821A
	Aruba 5406R 8-port 1/2.5/5/10GBASE-T PoE+ / 8-port SFP+ (No PSU) v3 zl2 Switch	JL002A
	Aruba 5406R 16-port SFP+ (No PSU) v3 zl2 Switch	JL095A
	Aruba 5406R 44GT PoE+ and 4 port SFP+ (No PSU) v3 zl2 Switch	JL003A
	Aruba 5412R zl2 Switch	J9822A
	Aruba 5412R 92GT PoE+ and 4 port SFP+ (No PSU) v3 zl2 Switch	JL001A
6	If #B2E is selected Then replace Localized option with #B2E for power supply and with #B2E for switch. (Offered only in NA, Mexico, Taiwan, and Japan)	
7	Power Supplies can be mixed for a switch enclosure	
Notes:	For J9828A, J9829A, J9830A/B: Power Supplies can be mixed for a switch enclosure. However, the three different power supplies each require different power cords, and the wall plug that is needed for J9830A is different from the wall plug that is needed for J9828A and J9829A. Moreover, full redundancy and N+1 redundancy are only supported with like power supplies. Drop down under power supply should offer the following options and results: Switch/Router/Power Supply to PDU Power Cord - B2B in North America, Mexico, Taiwan, and Japan or B2C ROW. (Watson Default B2B or B2C for Rack Level CTO) Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO) High Volt Switch/Router/Power Supply to Wall Power Cord - B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan) No Localized Power Cord Selected - AC3 Option	

Ca	bl	es
----	----	----

Rule#	Description	SKU
	Console Cables	
	(std 0 // max 99) User Selection (min 0 // max 99) per switch	
	Aruba X2C2 RJ45 to DB9 Console Cable	JL448A
	Multi-Mode Cables	
	(std 0 // max 99) User Selection (min 0 // max 99) per switch	
	HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
	HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
	HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
	HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
	HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
	HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
	HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
	HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 1m Cable	QK732A
	HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 2m Cable	QK733A
	HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 5m Cable	QK734A
	HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 15m Cable	QK735A
	HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 30m Cable	QK736A
	HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 50m Cable	QK737A
Switch E	Enclosure Options	
Rule#	Description	SKU
	Fan Trays	
	Aruba 5406R zl2 Switch Fan Tray	J9831A
	Spare Only	
	Aruba 5412R zl2 Switch Fan Tray	J9832A
	Spare Only	
	Mounting Kit	
1, 2	HPE X450 4U/7U Universal 4-post Rackmount Kit	J9852A
	Configuration Rules:	
1	If this Mounting Kit is ordered with #0D1 then it integrates to the HPE Universal Rack. (not the switch)	
2	If switches J9821A, JL002A, JL095A, JL003A, J9822A and JL001A are installed into a rack, Then this Rack Mounting kit is required.	

Software

Rule #	Description	SKU
	Central	
	Aruba Central 8XXX Switch Foundation 1 year Subscription E-STU	R3K03AAE
	Aruba Central 8XXX Switch Foundation 3 year Subscription E-STU	R3K04AAE
	Aruba Central 8XXX Switch Foundation 5 year Subscription E-STU	R3K05AAE
	Aruba Central 8XXX Switch Foundation 7 year Subscription E-STU	R3K06AAE
	Aruba Central 8XXX Switch Foundation 10 year Subscription E-STU	R3K07AAE
	Aruba Central 64xx or 54xx Switch Foundation 1 year Subscription E-STU	R8L80AAE
	Aruba Central 64xx or 54xx Switch Foundation 3 year Subscription E-STU	R8L81AAE
	Aruba Central 64xx or 54xx Switch Foundation 5 year Subscription E-STU	R8L82AAE
	Aruba Central 64xx or 54xx Switch Foundation 7 year Subscription E-STU	R8L83AAE
	Aruba Central 64xx or 54xx Switch Foundation 10 year Subscription E-STU	R8L84AAE
Notes:	Add the Central Cloud Skus to the Aruba Catalog as Standalone:	
	Aruba > Network Management > Central > Cloud Services	
	Aruba Central On-Premises Switch 84xx/83xx/64xx/54xx Foundation 1 year Subscription E-STU	R6U88AAE
	Aruba Central On-Premises Switch 84xx/83xx/64xx/54xx Foundation 3 year Subscription E-STU	R6U89AAE
	Aruba Central On-Premises Switch 84xx/83xx/64xx/54xx Foundation 5 year Subscription E-STU	R6U90AAE
	Aruba Central On-Premises Switch 84xx/83xx/64xx/54xx Foundation 7 year Subscription E-STU	R6U91AAE
	Aruba Central On-Premises Switch 84xx/83xx/64xx/54xx Foundation 10 year Subscription E-STU	R6U92AAE
	Aruba Central On-Premises 8XXX Switch Foundation 1 year Subscription E-STU	R6U88AAE
	Aruba Central On-Premises 8XXX Switch Foundation 3 year Subscription E-STU	R6U89AAE
	Aruba Central On-Premises 8XXX Switch Foundation 5 year Subscription E-STU	R6U90AAE
	Aruba Central On-Premises 8XXX Switch Foundation 7 year Subscription E-STU	R6U91AAE
	Aruba Central On-Premises 8XXX Switch Foundation 10 year Subscription E-STU	R6U92AAE
	Aruba Central On-Premises 64xx or 54xx Switch Foundation 1 year Subscription E-STU	R8M10AAE
	Aruba Central On-Premises 64xx or 54xx Switch Foundation 3 year Subscription E-STU	R8M11AAE
	Aruba Central On-Premises 64xx or 54xx Switch Foundation 5 year Subscription E-STU	R8M12AAE
	Aruba Central On-Premises 64xx or 54xx Switch Foundation 7 year Subscription E-STU	R8M13AAE
	Aruba Central On-Premises 64xx or 54xx Switch Foundation 10 year Subscription E-STU	R8M14AAE
	Aruba Central On-Premises 64xx or 54xx Switch Foundation 1 year Subscription COP only TAC E- STU	R8M15AAE
	Aruba Central On-Premises 64xx or 54xx Switch Foundation 3 year Subscription COP only TAC E-STU	R8M16AAE
	Aruba Central On-Premises 64xx or 54xx Switch Foundation 5 year Subscription COP only TAC E-STU	R8M17AAE
	Aruba Central On-Premises 64xx or 54xx Switch Foundation 7 year Subscription COP only TAC E-STU	R8M18AAE
	Aruba Central On-Premises 64xx or 54xx Switch Foundation 10 year Subscription COP only TAC E-STU	R8M19AAE
Notes:	Add the Central On-Prem Skus to the Aruba Catalog as Standalone: Aruba > Network Management > Central > On-Prem Services	

Related Options

Accessories

Remarks	Description	SKU
	Modules	
	Aruba 5400R zl2 Management Module	J9827A
	Aruba 24-port 10/100/1000BASE-T PoE+ MACsec v3 zl2 Module	J9986A
	Aruba 24-port 10/100/1000BASE-T MACsec v3 zl2 Module	J9987A
	Aruba 24-port 1GbE SFP MACsec v3 zl2 Module	J9988A
	Aruba 12-port 10/100/1000BASE-T PoE+ / 12-port 1GbE SFP MACsec v3 zl2 Module	J9989A
	Aruba 20-port 10/100/1000BASE-T PoE+ / 4-port 1G/10GbE SFP+ MACsec v3 zl2 Module	J9990A
	Aruba 20-port 10/100/1000BASE-T PoE+ / 4-port 1/2.5/5/10GBASE-T PoE+ MACsec v3 zl2 Module	J9991A
	Aruba 20-port 10/100/1000BASE-T PoE+ MACsec / 1-port 40GbE QSFP+ v3 zl2 Module	J9992A
	Aruba 8-port 1G/10GbE SFP+ MACsec v3 zl2 Module	J9993A
	Aruba 8-port 1/2.5/5/10GBASE-T PoE+ MACsec v3 zl2 Module	J9995A
	Aruba 2-port 40GbE QSFP+ v3 zl2 Module	J9996A
	Transceivers	
	Aruba 100M SFP LC FX 2km MMF Transceiver	J9054D
	Aruba 1G SFP RJ45 T 100m Cat5e Transceiver	J8177D
	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 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
	Aruba 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285D
	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
	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
	Power Supply	
	Aruba 5400R 700W PoE+ zl2 Power Supply	J9828A
	Aruba 5400R 1100W PoE+ zl2 Power Supply	J9829A
	Aruba 5400R 2750W PoE+ zl2 Power Supply	J9830B

Related Options

Cables	
Aruba X2C2 RJ45 to DB9 Console Cable	JL448A
HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 1m Cable	QK732A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 2m Cable	QK733A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 5m Cable	QK734A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 15m Cable	QK735A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 50m Cable	QK737A
Mounting Kit	
HPE X450 4U/7U Universal 4-post Rackmount Kit	J9852A
Aruba 5406R zl2 Switch (J9821A)	
Aruba 5406R zl2 Switch Fan Tray	J9831A
Aruba 5412R zl2 Switch (J9822A)	
Aruba 5412R zl2 Switch Fan Tray	J9832A
HPE 5406R-44G-PoE+/2SFP+ (No PSU) v2 zl2 Switch (J9823A)	
Aruba 5406R zl2 Switch Fan Tray	J9831A
HPE 5412R-92G-PoE+/2SFP+ (No PSU) v2 zl2 Switch (J9825A)	
Aruba 5412R zl2 Switch Fan Tray	J9832A
HPE 5406R-44G-PoE+/4SFP (No PSU) v2 zl2 Switch (J9824A)	
Aruba 5406R zl2 Switch Fan Tray	J9831A
HPE 5412R-92G-PoE+/4SFP (No PSU) v2 zl2 Switch (J9826A)	
Aruba 5412R zl2 Switch Fan Tray	J9832A
HPE 5406R-8XGT/8SFP+ (No PSU) v2 zl2 Switch (J9868A)	
Aruba 5406R zl2 Switch Fan Tray	J9831A
Aruba 5412R 92GT PoE+ and 4-port SFP+ (No PSU) v3 zl2 Switch (JL001A)	
Aruba 5412R zl2 Switch Fan Tray	J9832A
Aruba 5406R 8-port 1/2.5/5/10GBASE-T PoE+ / 8-port SFP+ (No PSU) v3 zl2 Switch (JL002A)	
Aruba 5406R zl2 Switch Fan Tray	J9831A
Aruba 5406R 44GT PoE+ and 4-port SFP+ (No PSU) v3 zl2 Switch (JL003A)	
Aruba 5406R zl2 Switch Fan Tray	J9831A
Aruba 5406R 16-port SFP+ (No PSU) v3 zl2 Switch (JL095A)	
Aruba 5406R zl2 Switch Fan Tray	J9831A

Aruba 5406R zl2 Swi	itch (J9821A)	
Included accessories	1 Aruba 5400R zl2 Manad	gement Module (J9827A)
	1 Aruba 5406R zl2 Switch Fan Tray (J9831A)	
I/O ports and slots	6 open module slots	
		44 autosensing 10/100/1000 ports or 144 SFP ports or 48 SFP+ ports or 48
Power supplies	2 power supply slots	abit or 12 40GbE ports, or a combination
rower supplies		required (ordered separately)
Fan tray	includes: 1 x J9831A	
	1 fan tray slot	
Physical characteristics	Dimensions	17.5(w) x 17.75(d) x 6.9(h) in (44.45 x 45.09 x 17.53 cm) (4U height)
	Weight	24.5 lb (11.11 kg)
Memory and processor	v3 Gigabit module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal
	v2 Gigabit module	ARM11 @ 450 MHz; Packet buffer size: 18 MB internal
	v3 10G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal
	v2 10G module	ARM11 @ 550 MHz; Packet buffer size: 18 MB internal
	v3 40G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal
	Management Module	Freescale P2020 dual core @ 1.2 GHz, 16 MB flash, 1 GB SD Card, 4 GB DDR3 SODIMM
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included); horizontal surface mounting only	
Performance	1000 Mb Latency	< 2.8 μ s (FIFO 64-byte packets)
IPv6 Ready Certified	10 Gbps Latency	< 1.8 µs (FIFO 64-byte packets)
	40 Gbps Latency	< 1.5 µs (FIFO 64-byte packets)
	Throughput	up to 571.4 Mpps
	Routing/Switching capacity	960 Gbps
	Switch fabric speed	1015 Gbps
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); 0°C to 40°C with J8177C transceiver installed, 0°C to 35°C with FIPS Opacity Shield installed
	Operating relative humidity	15% to 95% @ 113°F (45°C), noncondensing
	Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 44 dB, Pressure: 31.7 dB ISO 7779, ISO 9296

Electrical characteristics	Frequency	50/60 Hz
	80plus.org Certification	Gold
	Description	Does not come with power supply. Two power supply slots are available; three different power supplies are available. See power supply products for additional specifications.
	Maximum heat dissipation	2450 BTU/hr (2584.75 kJ/hr), (max. non-PoE); 3700 BTU/hr (3903 kJ/hr) (max. using PoE)
	Voltage	100 - 127 / 200 - 240 VAC, rated
	Notes:	Heat dissipation does not include heat dissipated by the PoE-powered devices themselves.
Safety	CSA 22.2 No. 60950; UL 6	0950; IEC 60950; EN 60950
Emissions	FCC part 15 Class A; EN 5	5022/CISPR 22 Class A
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD; HPE ENV. 765.002
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC, 1kV signal, 0.5 kV DC
	Conducted	IEC 61000-4-6; 3 Vrms
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); SNMP manager; Out-of-band management (serial RS-232c or micro usb)	
Notes:	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later; for example, J9142B, J8177C).	
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

Aruba 5412R zl2 Swi	itch (J9822A)	
Included accessories	1 Aruba 5400R zl2 Manaç 1 Aruba 5406R zl2 Switch	
I/O ports and slots	12 open module slots Supports a maximum of 288 autosensing 10/100/1000 ports or 288 SFP ports or 96 SFP+ ports or 96 HPE Smart Rate Multi-Gigabit or 24 40GbE ports, or a combination	
Power supplies	4 power supply slots 2 minimum power supplie	s required (ordered separately)
Fan tray	includes: 1 x J9832A 1 fan tray slot	
Physical characteristics	Dimensions	17.5(w) x 17.75(d) x 12.1(h) in (44.45 x 45.09 x 30.73 cm) (7U height)
	Weight	38.1 lb (17.28 kg)
Memory and processor	v3 Gigabit module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal
	v2 Gigabit module	ARM11 @ 450 MHz; Packet buffer size: 18 MB internal
	v3 10G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal
	v2 10G module	ARM11 @ 550 MHz; Packet buffer size: 18 MB internal
	v3 40G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal
	Management Module	Freescale P2020 dual core @ 1.2 GHz, 16 MB flash, 1 GB SD Card, 4 GB DDR3 SODIMM
Mounting and enclosure	Mounts in an EIA standard surface mounting only	d 19-inch telco rack or equipment cabinet (hardware included); horizontal
Performance	1000 Mb Latency	< 2.8 µs (FIFO 64-byte packets)
IPv6 Ready Certified	10 Gbps Latency	< 1.8 µs (FIFO 64-byte packets)
	40 Gbps Latency	< 1.5 µs (FIFO 64-byte packets)
	Throughput	up to 1142.8 Mpps
	Routing/Switching capacity	1920 Gbps
	Switch fabric speed	2030 Gbps
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); 0°C to 40°C with J8177C transceiver installed, 0°C to 35°C with FIPS Opacity Shield installed
	Operating relative humidity	15% to 95% @ 113°F (45°C), noncondensing
	Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 49 dB, Pressure: 35.7 dB ISO 7779, ISO 9296

Electrical characteristics	Frequency	50/60 Hz
	80plus.org Certification	Gold
	Description	Does not come with power supply. Four power supply slots are available; three different power supplies are available. See power supply products for additional specifications.
	Maximum heat dissipation	4900 BTU/hr (5169.5 kJ/hr), (max. non-PoE); 7400 BTU/hr (7,807 kJ/hr) (max. using PoE)
	Voltage	100 - 127 / 200 - 240 VAC, rated
	Notes:	Heat dissipation does not include heat dissipated by the PoE-powered devices themselves. When more than four power cords are installed in a 5412R zl2 switch chassis, additional installation requirements are needed. Refer to the HPE 5400R zl2 Switches Quick Setup Guide and Safety/Regulatory Information manual for details.
Safety	CSA 22.2 No. 60950; UL 6	0950; IEC 60950; EN 60950
Emissions	FCC part 15 Class A; EN 5	5022/CISPR 22 Class A
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD; HPE ENV. 765.002
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC, 1kV signal, 0.5 kV DC
	Conducted	IEC 61000-4-6; 3 Vrms
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); SNMP manager; Out-of-band management (serial RS-232c or micro usb)	
Notes:	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later; for example, J9142B, J8177C).	
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

In also de al como	-	2 zl2 Switch (J9823A)	
Included accessories	1 Aruba 5400R zl2 Management Module (J9827A) 1 Aruba 5406R zl2 Switch Fan Tray (J9831A)		
I/O ports and slots	44 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only		
		44 autosensing 10/100/1000 ports or 144 SFP ports or 48 SFP+ ports or 48	
Power supplies	2 power supply slots	required (ordered separately)	
Fan tray	includes: 1 x J9831A 1 fan tray slot	required (Ordered Separatery)	
Physical characteristics	Dimensions	17.5(w) x 17.75(d) x 6.9(h) in (44.45 x 45.09 x 17.53 cm) (4U height)	
, sicai ciiai aci ciisiics	Weight	28.11 lb (12.75 kg)	
Memory and processor	v3 Gigabit module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal	
romory and processor	v2 Gigabit module	ARM11 @ 450 MHz; Packet buffer size: 18 MB internal	
	v3 10G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal	
	v2 10G module	ARM11 @ 550 MHz; Packet buffer size: 18 MB internal	
	v3 40G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal	
	Management Module	Freescale P2020 dual core @ 1.2 GHz, 16 MB flash, 1 GB SD Card, 4 GB DDR3 SODIMM	
Mounting and enclosure	Mounts in an EIA standard surface mounting only	d 19-inch telco rack or equipment cabinet (hardware included); horizontal	
Performance	1000 Mb Latency	< 2.8 µs (FIFO 64-byte packets)	
IPv6 Ready Certified	10 Gbps Latency	< 1.8 µs (FIFO 64-byte packets)	
	40 Gbps Latency	< 1.5 µs (FIFO 64-byte packets)	
	Throughput	up to 571.4 Mpps	
	Routing/Switching capacity	960 Gbps	
	Switch fabric speed	1015 Gbps	
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)	
	MAC address table size	64000 entries	
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); 0°C to 40°C with J8177C transceiver installed, 0°C to 35°C with FIPS Opacity Shield installed	
	Operating relative humidity	15% to 95% @ 113°F (45°C), noncondensing	
	Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	
	Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), noncondensing	
	Altitude	up to 10,000 ft (3 km)	
	Acoustic	Power: 44 dB, Pressure: 31.7 dB ISO 7779, ISO 9296	

Electrical characteristics	Frequency	50/60 Hz
	80plus.org Certification	Gold
	Description	Does not come with power supply. Two open power supply slots are available; three different power supplies are available. See power supply products for additional specifications.
	Maximum heat dissipation	2450 BTU/hr (2584.75 kJ/hr), (max. non-PoE); 3700 BTU/hr (3903 kJ/hr) (max. using PoE)
	Voltage	110 - 127 / 200 - 240 VAC, rated
	Idle power	215 W
	Notes:	 Idle power is the actual power consumption of the device with no ports connected. Heat dissipation does not include heat dissipated by the PoE-powered devices themselves.
Safety	CSA 22.2 No. 60950; UL 6	0950; IEC 60950; EN 60950
Emissions	FCC part 15 Class A; EN 5	5022/CISPR 22 Class A
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD; HPE ENV. 765.002
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC, 1kV signal, 0.5 kV DC
	Conducted	IEC 61000-4-6; 3 Vrms
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); SNMP manager; Out-of-band management (serial RS-232c or micro usb)	
Notes:	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later; for example, J9142B, J8177C).	
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

III E 5412K 72G I 0	E+/23FP+ (NO P3U) V	2 zl2 Switch (J9825A)
Included accessories	1 Aruba 5400R zl2 Management Module (J9827A) 1 Aruba 5412R zl2 Switch Fan Tray (J9832A)	
I/O ports and slots	92 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 2 open 10GbE SFP+ transceiver slots 8 open module slots Supports a maximum of 288 autosensing 10/100/1000 ports or 288 SFP ports or 96 SFP+ ports or 96 HPE Smart Rate Multi-Gigabit or 24 40GbE ports, or a combination	
Power supplies	4 power supply slots	s required (ordered separately)
Fan tray	includes: 1 x J9832A 1 fan tray slot	
Physical characteristics	Dimensions	17.5(w) x 17.75(d) x 12.1(h) in (44.45 x 45.09 x 30.73 cm) (7U height)
	Weight	45.19 lb (20.5 kg)
Memory and processor	v3 Gigabit module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal
	v2 Gigabit module	ARM11 @ 450 MHz; Packet buffer size: 18 Mb internal
	v3 10G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal
	v2 10G module	ARM11 @ 550 MHz; Packet buffer size: 18 MB internal
	v3 40G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal
	Management Module	Freescale P2020 dual core @ 1.2 GHz, 16 MB flash, 1 GB SD Card, 4 GB DDR3 SODIMM
Mounting and enclosure	Mounts in an EIA standard surface mounting only	d 19-inch telco rack or equipment cabinet (hardware included); horizontal
Performance	1000 Mb Latency	< 2.8 µs (FIFO 64-byte packets)
IPv6 Ready Certified	10 Gbps Latency	< 1.8 µs (FIFO 64-byte packets)
	40 Gbps Latency	< 1.5 µs (FIFO 64-byte packets)
	Throughput	up to 1142.8 Mpps
	Routing/Switching capacity	1920 Gbps
	Switch fabric speed	2030 Gbps
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); 0°C to 40°C with J8177C transceiver installed 0°C to 35°C with FIPS Opacity Shield installed
	Operating relative humidity	15% to 95% @ 113°F (45°C), noncondensing
	Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 49 dB, Pressure: 35.7 dB ISO 7779, ISO 9296

Electrical characteristics	Frequency	50/60 Hz
	80plus.org Certification	Gold
	Description	Does not come with power supply. Four power supply slots are available; three different power supplies are available. See power supply products for additional specifications.
	Maximum heat dissipation	4900 BTU/hr (5169 kJ/hr), (max. non-PoE); 7400 BTU/hr (7,807 kJ/hr) (max. using PoE)
	Voltage	110 - 127 / 200 - 240 VAC, rated
	Idle power	312 W
	Notes:	Idle power is the actual power consumption of the device with no ports connected. Heat dissipation does not include heat dissipated by the PoE-powered devices themselves. When more than four power cords are installed in a 5412R zl2 switch chassis, additional installation requirements are needed. Refer to the HPE 5400R zl2 Switches Quick Setup Guide and Safety/Regulatory Information manual for details.
Safety	CSA 22.2 No. 60950; UL 6	50950; IEC 60950; EN 60950
Emissions	FCC part 15 Class A; EN 5	5022/CISPR 22 Class A
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD; HPE ENV. 765.002
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC, 1kV signal, 0.5 kV DC
	Conducted	IEC 61000-4-6; 3 Vrms
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); SNMP manager; Out-of-band management (serial RS-232c or micro usb)	
Notes:	Supported 1G SFP transc later; for example, J91421	eivers are revision "B" or later (product number ends with the letter "B" or 3, J8177C).
Services	details on the service-leve	ard Enterprise website at http://www.hpe.com/networking/services for I descriptions and product numbers. For details about services and response contact your local Hewlett Packard Enterprise sales office.

HPE 5406R-44G-PoE	=+/4SFP (No PSU) v2	zl2 Switch (J9824A)
Included accessories	1 Aruba 5400R zl2 Manaç 1 Aruba 5406R zl2 Switch	
I/O ports and slots	44 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 open SFP transceiver slots 4 open module slots Supports a maximum of 144 autosensing 10/100/1000 ports or 144 SFP ports or 48 SFP+ ports or 48 HPE Smart Rate Multi-Gigabit or 12 40GbE ports, or a combination	
Power supplies	2 power supply slots 1 minimum power supply	required (ordered separately)
Fan tray	includes: 1 x J9831A 1 fan tray slot	
Physical characteristics	Dimensions	17.5(w) x 17.75(d) x 6.9(h) in (44.45 x 45.09 x 17.53 cm) (4U height)
	Weight	26.19 lb (11.88 kg)
Memory and processor	v3 Gigabit module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal
	v2 Gigabit module	ARM11 @ 450 MHz; Packet buffer size: 18 Mb internal
	v3 10G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal
	v2 10G module	ARM11 @ 550 MHz; Packet buffer size: 18 MB internal
	v3 40G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal
	Management Module	Freescale P2020 dual core @ 1.2 GHz, 16 MB flash, 1 GB SD Card, 4 GB DDR3 SODIMM
Mounting and enclosure	Mounts in an EIA standard surface mounting only	19-inch telco rack or equipment cabinet (hardware included); horizontal
Performance	1000 Mb Latency	< 2.8 μ s (FIFO 64-byte packets)
IPv6 Ready Certified	10 Gbps Latency	< 1.8 µs (FIFO 64-byte packets)
	40 Gbps Latency	< 1.5 µs (FIFO 64-byte packets)
	Throughput	up to 571.4 Mpps
	Routing/Switching capacity	960 Gbps
	Switch fabric speed	1015 Gbps
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); 0°C to 40°C with J8177C transceiver installed, 0°C to 35°C with FIPS Opacity Shield installed
	Operating relative humidity	15% to 95% @ 113°F (45°C), noncondensing
	Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 44 dB, Pressure: 31.7 dB ISO 7779, ISO 9296

Electrical characteristics	Frequency	50/60 Hz
	80plus.org Certification	Gold
	Description	Does not come with power supply. Two open power supply slots are available; three different power supplies are available. See power supply products for additional specifications.
	Maximum heat dissipation	2450 BTU/hr (2584.75 kJ/hr), (max. non-PoE); 3700 BTU/hr (3903 kJ/hr) (max. using PoE)
	Voltage	110 - 127 / 200 - 240 VAC, rated
	Idle power	215 W
	Notes:	 Idle power is the actual power consumption of the device with no ports connected. Heat dissipation does not include heat dissipated by the PoE-powered devices themselves.
Safety	CSA 22.2 No. 60950; UL 6	
Emissions	FCC part 15 Class A; EN 5	5022/CISPR 22 Class A
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD; HPE ENV. 765.002
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC, 1kV signal, 0.5 kV DC
	Conducted	IEC 61000-4-6; 3 Vrms
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); SNMP manager; Out-of-band management (serial RS-232c or micro usb)	
Notes:	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later; for example, J9142B, J8177C).	
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

HPE 5406R-8XGT/8	SFP+ (No PSU) v2 zl2	Switch (J9868A)
Included accessories	1 Aruba 5400R zl2 Management Module (J9827A) 1 Aruba 5406R zl2 Switch Fan Tray (J9831A)	
I/O ports and slots	8 RJ-45 10GbE ports (IEEE 802.3an-2006 Type 10GBASE-T) 8 open 10GbE SFP+ transceiver slots 4 open module slots Supports a maximum of 144 autosensing 10/100/1000 ports or 144 SFP ports or 48 SFP+ ports or 48 HPE Smart Rate Multi-Gigabit or 12 40GbE ports, or a combination	
Power supplies	2 power supply slots	required (ordered separately)
Fan tray	includes: 1 x J9831A 1 fan tray slot	
Physical characteristics	Dimensions	17.5(w) x 17.75(d) x 6.9(h) in (44.45 x 45.09 x 17.53 cm) (4U height)
	Weight	28.11 lb (12.75 kg)
Memory and processor	v3 Gigabit module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal
	v2 Gigabit module	ARM11 @ 450 MHz; Packet buffer size: 18 Mb internal
	v3 10G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal
	v2 10G module	ARM11 @ 550 MHz; Packet buffer size: 18 MB internal
	v3 40G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB Internal
	Management Module	Freescale P2020 dual core @ 1.2 GHz, 16 MB flash, 1 GB SD Card, 4 GB DDR3 SODIMM
Mounting and enclosure	Mounts in an EIA standard surface mounting only	19-inch telco rack or equipment cabinet (hardware included); horizontal
Performance	1000 Mb Latency	< 2.8 µs (FIFO 64-byte packets)
IPv6 Ready Certified	10 Gbps Latency	< 1.8 µs (FIFO 64-byte packets)
	40 Gbps Latency	< 1.5 µs (FIFO 64-byte packets)
	Throughput	up to 571.4 Mpps
	Routing/Switching capacity	960 Gbps
	Switch fabric speed	1015 Gbps
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)
	MAC address table size	64000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); 0°C to 40°C with J8177C transceiver installed, 0°C to 35°C with FIPS Opacity Shield installed
	Operating relative humidity	15% to 95% @ 113°F (45°C), noncondensing
	Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 44 dB, Pressure: 31.7 dB ISO 7779, ISO 9296
	1	· ·

Electrical characteristics	Frequency	50/60 Hz
	80plus.org Certification	Gold
	Description	Does not come with power supply. Two open power supply slots are available; three different power supplies are available. See power supply products for additional specifications.
	Maximum heat dissipation	2450 BTU/hr (2584.75 kJ/hr), (max. non-PoE); 3700 BTU/hr (3903 kJ/hr) (max. using PoE)
	Voltage	110 - 127 / 200 - 240 VAC, rated
	Idle power	215 W
	Notes:	Idle power is the actual power consumption of the device with no ports connected. Heat dissipation does not include heat dissipated by the PoE-powered devices themselves.
Safety	CSA 22.2 No. 60950; UL 6	60950; IEC 60950; EN 60950
Emissions	FCC part 15 Class A; EN 5	5022/CISPR 22 Class A
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD; HPE ENV. 765.002
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC, 1kV signal, 0.5 kV DC
	Conducted	IEC 61000-4-6; 3 Vrms
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); SNMP manager; Out-of band management (serial RS-232c or micro usb)	
Notes:	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later; for example, J9142B, J8177C).	
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

Aruba 5412R 92GT F	PoE+ and 4-port SFP+	· (No PSU) v3 zl2 Switch (JL001A)	
Included accessories	1 Aruba 5400R zl2 Manag		
	1 Aruba 5412R zl2 Switch	,	
	3 Aruba 24-port 10/100/1000BASE-T PoE+ MACsec v3 zl2 Module (J9986A) 1 Aruba 20-port 10/100/1000BASE-T PoE+ / 4-port 1G/10GbE SFP+ MACsec v3 zl2 Modu (J9990A)		
I/O ports and slots	(J9990A) 92 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type		
i/O ports and sions		ab Type 1000BASE-T, IEEE 802.3at PoE+);	
		half or full; 1000BASE-T: full only	
	4 open 10GbE SFP+ trans	sceiver slots	
	8 open module slots	00 1 10 10 10 10 10 10 10 10 10 10 10 10	
		88 autosensing 10/100/1000 96 SFP+ ports or 96 HPE Smart Rate Multi-Gigabit or 24 40GbE ports, or a	
	combination	90 SFF+ poils of 90 HFE Siliali Rale Mulli-digabil of 24 400bE poils, of a	
Power supplies	4 power supply slots		
. J Jappilos		s required (ordered separately)	
Fan tray	includes: 1 x J9832A	· · ·	
-	1 fan tray slot		
Physical characteristics	Dimensions	17.5(w) x 17.75(d) x 12.1(h) in (44.45 x 45.09 x 30.73 cm) (7U height)	
	Weight	45.19 lb (20.5 kg)	
Memory and processor	v3 Gigabit module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB internal	
	v2 Gigabit module	ARM11 @ 450 MHz; Packet buffer size: 18 Mb internal	
	v3 10G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB internal	
	v2 10G module	ARM11 @ 550 MHz; Packet buffer size: 18 MB internal	
	v3 40G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB internal	
	Management Module	Freescale P2020 dual core @ 1.2 MHz, 16 MB flash, 1 GB SD Card, 4 GB DDR3 SODIMM	
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included); Horizontal surface mounting only		
Performance	1000 Mb Latency	< 2.8 μs (FIFO 64-byte packets)	
	10 Gbps Latency	< 1.8 μ s (FIFO 64-byte packets)	
	40 Gbps Latency	< 1.5 µs (FIFO 64-byte packets)	
	Throughput	up to 1142.8 Mpps	
	Routing/Switching	1920 Gbps	
	capacity		
	Switch fabric speed	2030 Gbps	
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)	
	MAC address table size	64000 entries	
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); 0°C to 40°C with J8177C transceiver installed, 0°C to 35°C with FIPS Opacity Shield installed	
	Operating relative humidity	15% to 95% @ 113°F (45°C), noncondensing	
	Non-operating/Storage	-40°F to 158°F (-40°C to 70°C)	
	temperature		
	Non-operating/Storage	15% to 95% @ 149°F (65°C), noncondensing	
	relative humidity	(1.1. 1.7) 1.1. 1.1. 1.1. 1.1. 1.1. 1.1.	
	Altitude	up to 10,000 ft (3 km)	
	Acoustic	Power: 49 dB, Pressure: 35.7 dB ISO 7779, ISO 9296	
Flectrical characteristics	trical characteristics Frequency 50/60 Hz		

	80plus.org Certificati	on Gold
	Description	Does not come with power supply. Four open power supply slots are available; three different power supplies are available. See power supply products for additional specifications
	Maximum heat dissipation	4900 BTU/hr (5169.5 kJ/hr), (max. non-PoE); 7400 BTU/hr (7807 kJ/hr) (max. using PoE)
	Voltage	110 - 127 / 200 - 240 VAC, rated
	Idle power	312 W
	Notes:	 Idle power is the actual power consumption of the device with no ports connected.
		 Heat dissipation does not include heat dissipated by the PoE-powered devices themselves. When more than four power cords are installed in a 5412R zl2 switch chassis, additional installation requirements are needed. Refer to the HPE 5400R zl2 Switches Quick Setup Guide and Safety/Regulatory Information manual for details.
Safety	CSA 22.2 No. 60950; U	JL 60950; IEC 60950; EN 60950
Emissions	FCC part 15 Class A; El	N 55022/CISPR 22 Class A
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD; HPE ENV. 765.002
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC, 1kV signal, 0.5 kV DC
	Conducted	IEC 61000-4-6; 3 Vrms
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); SNMP manager; Out-of-band management (serial RS-232c or micro usb)	
Notes:	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later; for example, J9142B, J8177C).	
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

Aruba 5406R 8-por	† 1/2.5/5/10GBASE-T	PoE+ / 8-port SFP+ (No PSU) v3 zl2 Switch (JL002A)	
Included accessories	1 Aruba 5400R zl2 Management Module (J9827A) 1 Aruba 5406R zl2 Switch Fan Tray (J9831A) 1 Aruba 8-port 1G/10GbE SFP+ MACsec v3 zl2 Module (J9993A) 1 Aruba 8-port 1/2.5/5/10GBASE-T PoE+ MACsec v3 zl2 Module (J9995A)		
I/O ports and slots	8 RJ-45 HPE Smart Rate Multi-Gigabit ports (100M, 1/2.5/5GBASE-T and 10GBASE-T) 8 open 10GbE SFP+ transceiver slots 4 open module slots Supports a maximum of 144 autosensing 10/100/1000 ports or 144 SFP ports or 48 SFP+ ports or 48 HPE Smart Rate Multi-Gigabit or 12 40GbE ports, or a combination		
Power supplies	2 power supply slots 1 minimum power supply r	equired (ordered separately)	
Fan tray	includes: 1 x J9831A 1 fan tray slot		
Physical	Dimensions	17.5(w) x 17.75(d) x 6.9(h) in (44.45 x 45.09 x 17.53 cm)	
characteristics	Weight	(4U height)	
Memory and processor	v3 Gigabit module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB internal	
	v2 Gigabit module	ARM 11 @ 450 MHz; Packet buffer size: 18 MB internal	
	v3 10G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB internal	
	v2 10G module	ARM11 @ 550 MHz; Packet buffer size: 18 MB internal	
	v3 40G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB internal	
	Management Module	Freescale P2020 dual core @ 1.2 GHz, 16 MB flash, 1 GB SD Card, 4 GB DDR3 SODIMM	
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included); Horizontal surface mounting only		
Performance	1000 Mb Latency	< 2.8 μs (FIFO 64-byte packets)	
	10 Gbps Latency	< 1.8 µs (FIFO 64-byte packets)	
	40 Gbps Latency	< 1.5 µs (FIFO 64-byte packets)	
	Throughput	up to 571.4 Mpps	
	Routing/Switching capacity	960 Gbps	
	Switch fabric speed	1015 Gbps	
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)	
	MAC address table size	64000 entries	
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); 0°C to 40°C with J8177C transceiver installed, 0°C to 35°C with FIPS Opacity Shield installed	
	Operating relative humidity	15% to 95% @ 113°F (45°C), noncondensing	
	Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	
	Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), noncondensing	
	Altitude	up to 10,000 ft (3 km)	
	Acoustic	Power: 44 dB, Pressure: 31.7 dB ISO 7779, ISO 9296	

Electrical	Frequency	50/60 Hz	
characteristics	80plus.org Certification	Gold	
	Description	Does not come with power supply. Two open power supply slots are available; three different power supplies are available. See power supply products for additional specifications.	
	Maximum heat dissipation	2450 BTU/hr (2584.75 kJ/hr), (max. non-PoE); 3700 BTU/hr (3903 kJ/hr) (max. using PoE)	
	Voltage	110 - 127 / 200 - 240 VAC, rated	
	Idle power	215 W	
	Notes:	 Idle power is the actual power consumption of the device with no ports connected. Heat dissipation does not include heat dissipated by the PoE-powered devices themselves. 	
Safety	CSA 22.2 No. 60950; UL 60	950; IEC 60950; EN 60950	
Emissions	FCC part 15 Class A; EN 55022/CISPR 22 Class A		
Immunity	EN	EN 55024, CISPR 24	
	ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD; HPE ENV. 765.002	
	Radiated	IEC 61000-4-3; 3 V/m	
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)	
	Surge	IEC 61000-4-5; 1 kV/2 kV AC, 1kV signal, 0.5 kV DC	
	Conducted	IEC 61000-4-6; 3 Vrms	
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz	
	Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods	
	Harmonics	EN 61000-3-2, IEC 61000-3-2	
	Flicker	EN 61000-3-3, IEC 61000-3-3	
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); SNMP manager; Out-of-band management (serial RS-232c or micro usb)		
Notes:	 Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later; For example, J9142B, J8177C). HPE Smart Rate Multi-Gigabit Cabling; 1000BASE-T, 2.5 Gigabit, and 5 Gigabit Ethernet: Category 		
6	5e or better UTP or STP; 10GBASE-T: Category 6 or better (CAT6A recommended) UTP or STP		
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.		

	PoE+ and 4-port SFP+ (No PSU) v3 zl2 Switch (JL003A) 1 Aruba 5400R zl2 Management Module (J9827A) 1 Aruba 5406R zl2 Switch Fan Tray (J9831A) 1 Aruba 24-port 10/100/1000BASE-T PoE+ MACsec v3 zl2 Module (J9986A) 1 Aruba 20-port 10/100/1000BASE-T PoE+ / 4-port 1G/10GbE SFP+ MACsec v3 zl2 Module (J9990A)		
	44 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 open 10GbE SFP+ transceiver slots 4 open module slots Supports a maximum of 144 autosensing 10/100/1000 ports or 144 SFP ports or 48 SFP+ ports or 48 HPE Smart Rate Multi-Gigabit or 12 40GbE ports, or a combination		
	2 power supply slots 1 minimum power supply r	equired (ordered separately)	
an tray	includes: 1 x J9831A 1 fan tray slot		
,	Dimensions	17.5(w) x 17.75(d) x 6.9(h) in (44.45 x 45.09 x 17.53 cm) (4U height)	
characteristics	Weight	28.11 lb (12.75 kg)	
Memory and processor	v3 Gigabit module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB internal	
	v2 Gigabit module	ARM11 @ 450 MHz; Packet buffer size: 18 MB internal	
	v3 10G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB internal	
	v2 10G module	ARM11 @ 550 MHz; Packet buffer size: 18 MB internal	
	v3 40G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB internal	
	Management Module	Freescale P2020 dual core @ 1.2 GHz, 16 MB flash, 1 GB SD Card, 4 GB DDR3 SODIMM	
_	Mounts in an EIA standard surface mounting only	19-inch telco rack or equipment cabinet (hardware included); Horizontal	
Performance	1000 Mb Latency	< 2.8 µs (FIFO 64-byte packets)	
	10 Gbps Latency	< 1.8 µs (FIFO 64-byte packets)	
	40 Gbps Latency	< 1.5 µs (FIFO 64-byte packets)	
	Throughput	up to 571.4 Mpps	
	Routing/Switching capacity	960 Gbps	
	Switch fabric speed	1015 Gbps	
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)	
	MAC address table size	64000 entries	
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); 0°C to 40°C with J8177C transceiver installed, 0°C to 35°C with FIPS Opacity Shield installed	
	Operating relative humidity	15% to 95% @ 113°F (45°C), noncondensing	
	Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	
	Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), noncondensing	
	Altitude	up to 10,000 ft (3 km)	
	Acoustic	Power: 44 dB, Pressure: 31.7 dB ISO 7779, ISO 9296	
	s Frequency	50/60 Hz	

	Description	Does not come with power supply. Two open power supply slots are available; three different power supplies are available. See power supply products for additional specifications
	Maximum heat dissipation	2450 BTU/hr (2584.75 kJ/hr), (max. non-PoE); 3700 BTU/hr (3903 kJ/hr) (max. using PoE)
	Voltage	110 - 127 / 200 - 240 VAC, rated
	Idle power	215 W
	Notes:	 Idle power is the actual power consumption of the device with no ports connected.
		 Heat dissipation does not include heat dissipated by the PoE-powered devices themselves.
Safety	CSA 22.2 No. 60950; U	JL 60950; IEC 60950; EN 60950
Emissions	FCC part 15 Class A; E	N 55022/CISPR 22 Class A
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD; HPE ENV. 765.002
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC, 1kV signal, 0.5 kV DCIEC 61000-4-6; 3 Vrms
	Conducted	IEC 61000-4-6; 3 Vrms
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	Aruba AirWave Network Management; IMC - Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); SNMP manager; Out-of-band management (serial RS-232c or micro usb)	
Notes:	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later; For example, J9142B, J8177C).	
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

Aruba 5406R 16-por	t SFP+ (No PSU) v3 z	I2 Switch (JL095A)	
Included accessories	1 Aruba 5400R zl2 Management Module (J9827A) 1 Aruba 5406R zl2 Switch Fan Tray (J9831A) 2 Aruba 8-port 1G/10GbE SFP+ MACsec v3 zl2 Module (J9993A)		
I/O ports and slots	16 open 10GbE SFP+ transceiver slots 4 open module slots Supports a maximum of 144 autosensing 10/100/1000 ports or 144 SFP ports or 48 SFP+ ports or 48 HPE Smart Rate Multi-Gigabit or 12 40GbE ports, or a combination		
Power supplies	2 power supply slots 1 minimum power supply	required (ordered separately)	
Fan tray	includes: 1 x J9831A 1 fan tray slot		
Physical characteristics	Dimensions	17.5(w) x 17.75(d) x 6.9(h) in (44.45 x 45.09 x 17.53 cm) (4U height)	
	Weight	28.11 lb (12.75 kg)	
Memory and processor	v3 Gigabit module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB internal	
	v2 Gigabit module	ARM 11 @ 450 MHz; Packet buffer size: 18 MB internal	
	v3 10G module	Dual ARM Coretex A9 @ 1; Packet buffer size: 13.5 MB internal	
	v2 10G module	ARM11 @ 550 MHz; Packet buffer size: 18 MB internal	
	v3 40G module	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB internal	
	Management Module	Freescale P2020 dual core @ 1.2 GHz, 16 MB flash, 1 GB SD Card, 4 GB DDR3 SODIMM	
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included); Horizontal surface mounting only		
Performance	1000 Mb Latency	< 2.8 µs (FIFO 64-byte packets)	
	10 Gbps Latency	< 1.8 µs (FIFO 64-byte packets)	
	40 Gbps Latency	< 1.5 µs (FIFO 64-byte packets)	
	Throughput	up to 571.4 Mpps	
	Routing/Switching capacity	960 Gbps	
	Switch fabric speed	1015 Gbps	
	Routing table size	10000 entries (IPv4), 5000 entries (IPv6)	
	MAC address table size	64000 entries	
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); 0°C to 40°C with J8177C transceiver installed, 0°C to 35°C with FIPS Opacity Shield installed	
	Operating relative humidity	15% to 95% @ 113°F (45°C), noncondensing	
	Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	
	Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), noncondensing	
	Altitude	up to 10,000 ft (3 km)	
	Acoustic	Power: 44 dB, Pressure: 31.7 dB ISO 7779, ISO 9296	

Electrical characteristics	Frequency	50/60 Hz
	80plus.org Certification	Gold
	Description	Does not come with power supply. Two open power supply slots are available; three different power supplies are available. See power supply products for additional specifications.
	Maximum heat dissipation	2450 BTU/hr (2584.75 kJ/hr), (max. non-PoE); 3700 BTU/hr (3903 kJ/hr) (max. using PoE)
	Voltage	110 - 127 / 200 - 240 VAC, rated
	Idle power	215 W
	Notes:	 Idle power is the actual power consumption of the device with no ports connected.
		 Heat dissipation does not include heat dissipated by the PoE-powered devices themselves.
Safety	CSA 22.2 No. 60950; UL 6	60950; IEC 60950; EN 60950
Emissions	FCC part 15 Class A; EN 5	5022/CISPR 22 Class A
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD; HPE ENV. 765.002
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC, 1kV signal, 0.5 kV DC
	Conducted	IEC 61000-4-6; 3 Vrms
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	Aruba AirWave Network Management; IMC - Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); SNMP manager; Out-of-band management (serial RS-232c or micro usb)	
Notes:	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later; For example, J9142B, J8177C).	
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

Standards and protocols

(applies to all products in series)

General Protocols

- IEEE 802.1ad Q-in-Q
- IEEE 802.1AX-2008 Link Aggregation
- IEEE 802.1D MAC Bridges
- IEEE 802.1p Priority
- IEEE 802.1Q VLANs
- IEEE 802.1s Multiple Spanning Trees
- IEEE 802.1v VLAN classification by Protocol and Port
- IEEE 802.1w Rapid Reconfiguration of Spanning Tree
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- IEEE 802.3af Power over Ethernet
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 802.3x Flow Control
- IEEE 802.3bz 2.5Gb/s and 5Gb/s interfaces
- RFC 768 UDP
- RFC 783 TFTP Protocol (revision 2)
- RFC 792 ICMP
- RFC 793 TCP
- RFC 826 ARP
- RFC 854 TELNET
- RFC 868 Time Protocol
- RFC 951 BOOTP
- RFC 1058 RIPv1
- RFC 1350 TFTP Protocol (revision 2)
- RFC 1519 CIDR
- RFC 1542 BOOTP Extensions
- RFC 1918 Address Allocation for Private Internet
- RFC 2030 Simple Network Time Protocol (SNTP) v4
- RFC 2131 DHCP
- RFC 2453 RIPv2
- RFC 2548 (MS-RAS-Vendor only)
- RFC 3046 DHCP Relay Agent Information Option
- RFC 3575 IANA Considerations for RADIUS
- RFC 3576 Ext to RADIUS (CoA only)
- RFC 3768 VRRP
- RFC 4675 RADIUS VLAN & Priority
- RFC 5880 Bidirectional Forwarding Detection
- RFC 5905 Network Time Protocol Version 4: Protocol and Algorithms Specification
- UDLD (Uni-directional Link Detection)

BGP

- RFC 1997 BGP Communities Attribute
- RFC 2918 Route Refresh Capability
- RFC 4271 A Border Gateway Protocol 4 (BGP-4)
- RFC 4456 BGP Route Reflection: An Alternative to Full Mesh Internal BGP (IBGP)
- RFC 5492 Capabilities Advertisement with BGP-4

Network Management

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
- RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)
- RFC 3176 sFlow
- RFC 3411 SNMP Management Frameworks
- RFC 3412 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)
- RFC 3413 Simple Network Management Protocol (SNMP) Applications
- RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)
- RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)
- RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)
- RFC 5424 Syslog Protocol
- ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
- SNMPv1/v2c/v3
- XRMON

Denial of service protection

CPU DoS Protection

Device Management

- RFC 1591 DNS (client)
- RFC 2576 (Coexistence between SNMP V1, V2, V3)
- RFC 2579 (SMIv2 Text Conventions)
- RFC 2580 (SMIv2 Conformance)
- RFC 3416 (SNMP Protocol Operations v2)
- RFC 3417 (SNMP Transport Mappings)
- HTML and telnet management

QoS/CoS

- RFC 2474 DiffServ Precedence, including 8 queues/port
- RFC 2475 DiffServ Architecture
- RFC 2597 DiffServ Assured Forwarding (AF)
- RFC 2598 DiffServ Expedited Forwarding (EF)

IP Multicast

- RFC 3376 IGMPv3
- RFC 3973 PIM Dense Mode
- RFC 4601 PIM Sparse Mode

OSPF

- RFC 2328 OSPFv2
- RFC 3101 OSPF NSSA
- RFC 5340 OSPFv3 for IPv6

IPv₆

- RFC 1981 IPv6 Path MTU Discovery
- RFC 2080 RIPng for IPv6
- RFC 2081 RIPng Protocol Applicability Statement
- RFC 2082 RIP-2 MD5
- RFC 2375 IPv6 Multicast Address Assignments
- RFC 2460 IPv6 Specification
- RFC 2464 Transmission of IPv6 over Ethernet Networks
- RFC 2710 Multicast Listener Discovery (MLD) for IPv6
- RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only)
- RFC 3019 MLDv1 MIB
- RFC 3315 DHCPv6 (client and relay)
- RFC 3484 Default Address Selection for IPv6
- RFC 3587 IPv6 Global Unicast Address Format
- RFC 3596 DNS Extension for IPv6
- RFC 3810 MLDv2 for IPv6
- RFC 4022 MIB for TCP
- RFC 4087 IP Tunnel MIB
- RFC 4113 MIB for UDP
- RFC 4213 Basic Transition Mechanisms for IPv6 Hosts and Routers
- RFC 4251 SSHv6 Architecture
- RFC 4252 SSHv6 Authentication
- RFC 4253 SSHv6 Transport Layer
- RFC 4254 SSHv6 Connection
- RFC 4291 IP Version 6 Addressing Architecture
- RFC 4293 MIB for IP
- RFC 4294 IPv6 Node Requirements
- RFC 4419 Key Exchange for SSH
- RFC 4443 ICMPv6
- RFC 4541 IGMP & MLD Snooping Switch
- RFC 4861 IPv6 Neighbor Discovery
- RFC 4862 IPv6 Stateless Address Auto-configuration
- RFC 5095 Deprecation of Type 0 Routing Headers in IPv6
- RFC 5340 OSPFv3 for IPv6
- RFC 5453 Reserved IPv6 Interface Identifiers
- RFC 5519 Multicast Group Membership Discovery MIB (MLDv2 only)
- RFC 5722 Handling of Overlapping IPv6 Fragments
- RFC 6620 FCFS SAVI

MIBs

- IEEE 802.1ap (MSTP and STP MIB's only)
- IEEE 8021-Bridge-MIB (2008)
- IEEE 8021-Q-Bridge-MIB (2008)
- RFC 1155 Structure & ID of Mgmt Info for TCP/IP Internets
- RFC 1213 MIB II
- RFC 1493 Bridge MIB
- RFC 1724 RIPv2 MIB
- RFC 1850 OSPFv2 MIB
- RFC 2021 RMONv2 MIB
- RFC 2096 IP Forwarding Table MIB
- RFC 2578 Structure of Management Information Version 2 (SMIv2)
- RFC 2613 SMON MIB
- RFC 2618 RADIUS Client MIB
- RFC 2620 RADIUS Accounting MIB
- RFC 2665 Ethernet-Like-MIB
- RFC 2668 802.3 MAU MIB
- RFC 2674 802.1p and IEEE 802.1Q Bridge MIB
- RFC 2737 Entity MIB (Version 2)
- RFC 2787 VRRP MIB
- RFC 2863 The Interfaces Group MIB
- RFC 2925 Ping MIB
- RFC 2932 IP (Multicast Routing MIB)
- RFC 2933 IGMP MIB
- RFC 4292 IP Forwarding Table MIB
- RFC 4836 Managed Objects for 802.3 Medium Attachment Units (MAU)
- RFC 7331 BFD MIB

Security

- IEEE 802.1AE MAC Security Standard (MACSec)
- IEEE 802.1X Port Based Network Access Control
- RFC 1321 The MD5 Message-Digest Algorithm
- RFC 1492 TACACS+
- RFC 2698 A Two Rate Three Color Marker
- RFC 2818 HTTP Over TLS
- RFC 2865 RADIUS (client only)
- RFC 2866 RADIUS Accounting
- RFC 3579 RADIUS Support For Extensible Authentication Protocol (EAP)
- RFC 6614 Transport Layer Security (TLS) Encryption over Radius (RadSec)
- RFC 7030 Enrollment over Secure Transport
- Secure Sockets Layer (SSL)
- SSHv2 Secure Shell

Summary of Changes

28-Jun-2021 Version 30 Changed Standard Features and Configuration Information sections were updated. O6-Apr-2020 Version 29 Changed SKUs added in Configuration Information sections were updated. O6-Apr-2020 Version 28 Changed Standard Features-Warrarity and Configuration Information sections were updated. O1-Jul-2019 Version 26 Changed Standard Features and Technical Specification sections were updated. Obsolere SKUs were removed. Obsolered Obsolere SKUs were removed. Obsolere SKUs were removed. Obsolered Ob	Date	Version History	Action	Description of Change
06-Apr-2020 Version 28 Changed Updated. Standard Features- Warranty and Configuration Information sections were updated. 06-Jan-2020 Version 26 Changed Configuration Information section was updated. 04-Mar-2019 Version 25 Changed Stu J9151D was replaced with J9151E CTO section was removed. 03-Dec-2018 Version 24 Changed KkU J9151D was replaced with J9151E CTO section was removed. 04-Sep-2018 Version 23 Changed Key Features, Product overview and Enhanced Features were updated with Section was removed. 04-Sep-2018 Version 22 Changed Changed Software feature update with the current Recommended and Extended markings removed from the document. 04-Sep-2018 Version 21 Changed Software feature update 05-Jul-2017 Version 12 Changed SKU added: JL308A 07-Aug-2017 Version 19 Added SKU added: JL308A 04-Feb-2017 Version 18 Added SKU added: JL308A 05-Pe0-2016 Version 15 Changed Configuration section updated 07-Nov-2016 Version 15 Changed Product overview, Key Features, Features and Benefits, Technical Specifications updated 07-Jun-2016 Version 12 Changed Configuration section updated 08-Jan-201	28-Jun-2021	Version 30	Changed	Standard Features and Configuration Information sections were updated.
06-Apr-2020 Version 28 Changed Updated. Standard Features- Warranty and Configuration Information sections were updated. 06-Jan-2020 Version 26 Changed Configuration Information section was updated. 04-Mar-2019 Version 25 Changed Stu J9151D was replaced with J9151E CTO section was removed. 03-Dec-2018 Version 24 Changed KkU J9151D was replaced with J9151E CTO section was removed. 04-Sep-2018 Version 23 Changed Key Features, Product overview and Enhanced Features were updated with Section was removed. 04-Sep-2018 Version 22 Changed Changed Software feature update with the current Recommended and Extended markings removed from the document. 04-Sep-2018 Version 21 Changed Software feature update 05-Jul-2017 Version 12 Changed SKU added: JL308A 07-Aug-2017 Version 19 Added SKU added: JL308A 04-Feb-2017 Version 18 Added SKU added: JL308A 05-Pe0-2016 Version 15 Changed Configuration section updated 07-Nov-2016 Version 15 Changed Product overview, Key Features, Features and Benefits, Technical Specifications updated 07-Jun-2016 Version 12 Changed Configuration section updated 08-Jan-201	08-Mar-2021	Version 29	Changed	
01-Jul-2019 Version 26 Changed Obsolete SKUs were removed. Obsolete SKUs year ermoved. 04-Mar-2019 Version 25 Changed SKU 9151D was replaced with J9151E CTO section was removed. Obsolete SKUs were removed. 03-Dec-2018 Version 24 Changed KKy Features, Product overview and Enhanced Features were updated O1-Oct-2018 04-Sep-2018 Version 23 Changed Recommended and Extended markings removed from the document. 04-Sep-2018 Version 21 Changed Changed Software feature update dwith the current Recommended-Extended Options 02-Jul-2018 Version 20 Changed Configuration section updated 08-Jan-2018 Version 20 Changed Configuration section updated 07-Aug-2017 Version 19 Added SKU added: JL308A 07-Jul-2017 Version 19 Added SKU added: JL48A 01-May-2017 Version 16 Added SKU added: JL830B 07-Nov-2016 Version 15 Changed Product overview, Key Features, Features and Benefits, Technical Specifications 07-Aug-2017 Version 16 Added SKU added: JL830B 07-Nov-2016 Version 17 Changed Configuration section updated 07-Nov-2016 Version 18 Changed Changed Change Students Section updated <	06-Apr-2020	Version 28	Changed	Standard Features- Warranty and Configuration Information sections were
O4-Mar-2019 Version 25 Changed SKU J9151D was replaced with J9151E CTO section was removed. Obsolete SKUs were removed. Other Studend In the current Recommended Fextended Options of Studend In the current Recommended Fextended Options of Studend In the Current Product Options of Studend In the Current Product Options Options of Studend In the Stud	06-Jan-2020	Version 27	Changed	Configuration Information section was updated.
CTO section was removed. Obsolete SKUs were removed makings removed from the document. Obsolete SKUs were removed. Obsolete SKUs were sended with the current Recommended Features defended. Obsolete SKUs were removed from the document. Obsolete SKUs were removed with the current Recommended Features and Energits on Features and Benefits. Obsolete SKUs were removed. Obsolete SKUs were removed were updated. Obsolete SKUs were removed with the current Recommended Feature updated. Obsolete SKUs were removed with the current Recommended Feature updated. Obsolete Skus descriptions and Energits on Features and Benefits. Obsolete Skus descriptions and Configuration were updated. Obsolete Skus descriptions and Configuration Menu Obsolete Skus descriptions and Configuration Menu Obsolete Skus descriptions and Skus descriptions and Configuration Menu Obsolete Skus descriptions and Skus description	01-Jul-2019	Version 26	Changed	·
01-Oct-2018 Version 23 Changed Necommended and Extended markings removed from the document. 04-Sep-2018 Version 22 Changed OuickSpecs updated with the current Recommended-Extended Options 02-Jul-2018 Version 20 Changed Software feature update 07-Aug-2017 Version 19 Added SKU added: JL308A 03-Jul-2017 Version 18 Added SKU added: JL408A 01-May-2017 Version 17 Changed Minor edit made on Technical Specifications 06-Feb-2017 Version 16 Added SKU added: J9830B 07-Nov-2016 Version 15 Changed Product overview, Key Features, Features and Benefits, Technical Specifications updated. 07-Nov-2016 Version 13 Changed Product overview, Features and Benefits 08-Jun-2016 Version 12 Changed Adding #AC3 Option on Configuration Section. Minor changes on Features and Benefits 06-Jun-2016 Version 11 Changed Overview, Features and Benefits, Technical Specifications and Accessories updated 01-Dec-2015 Version 10 Changed OuickSpecs name changed to Aruba 5400R zl2 Switch Series Product overview, Features and benefits, Technical Specifications and Accessories updated. 27-Apr-2015 Version 8 Changed Changes were made on the nettire document Accessories added: J	04-Mar-2019	Version 25	Changed	CTO section was removed.
01-Oct-2018 Version 23 Changed Recommended and Extended markings removed from the document. 04-Sep-2018 Version 21 Changed OuickSpecs updated with the current Recommended-Extended Options 08-Jan-2018 Version 20 Changed Software feature update 07-Aug-2017 Version 19 Added SKU added: JL 308A 03-Jul-2017 Version 18 Added SKU added: JL 48A 01-May-2017 Version 17 Changed Minor edit made on Technical Specifications 06-Feb-2017 Version 16 Added SKU added: J9830B 07-Nov-2016 Version 15 Changed Product overview, Key Features, Features and Benefits, Technical Specifications updated. 01-Aug-2016 Version 13 Changed Adding #AC3 Option on Configuration Section.	03-Dec-2018	Version 24	Changed	Key Features, Product overview and Enhanced Features were updated
04-Sep-2018 Version 22 Changed OuickSpecs updated with the current Recommended-Extended Options 02-Jul-2018 Version 21 Changed Software feature update 08-Jan-2018 Version 19 Added SKU added: JL 308A 07-Aug-2017 Version 19 Added SKU added: JL 48A 01-May-2017 Version 18 Added SKU added: JL 48A 01-May-2017 Version 16 Added SKU added: JL 48A 07-Nov-2016 Version 15 Changed Minor edit made on Technical Specifications 07-Nov-2016 Version 15 Changed Product overview, Key Features, Features and Benefits, Technical Specifications updated. 01-Aug-2016 Version 14 Changed Configuration section updated. 01-Aug-2016 Version 12 Changed Overview, Features and Benefits 06-Jun-2016 Version 12 Changed Overview, Features and Benefits, Technical Specifications and Accessories updated 01-Dec-2016 Version 11 Changed SKU descriptions updated on all the document 01-Dec-2015 Version 8 Changed QuickSpecs name changed to Aruba 5400R zl2 Switch	01-Oct-2018	Version 23	Changed	
02-Jul-2018 Version 20 Changed Software feature update 08-Jan-2018 Version 20 Changed Software feature update 07-Aug-2017 Version 19 Added SKU added: JL 308A 03-Jul-2017 Version 18 Added SKU added: JL 448A 01-May-2017 Version 17 Changed Minor edit made on Technical Specifications 06-Feb-2017 Version 16 Added SKU added: J9830B 07-Nov-2016 Version 15 Changed Product overview, Key Features, Features and Benefits, Technical Specifications updated. 01-Aug-2016 Version 14 Changed Configuration section updated 01-Aug-2016 Version 12 Changed Overview, Features and Benefits 06-Jun-2016 Version 12 Changed Overview, Features and Benefits, Technical Specifications and Accessories updated 22-Apr-2016 Version 11 Changed SKU descriptions updated on all the document 01-Dec-2015 Version 9 Changed OukeKspecs name changed to Aruba 5400R zl2 Switch Series Product overview, Features and benefits, Technical Specifications and Accessories added: J9986A, J9987A, J9988A, J9989A, J9990A, J9991A, J9992A, J9993A, J9995A, J9995A	04-Sep-2018	Version 22		
08-Jan-2018Version 20Changed Configuration section updated Configuration section updated07-Aug-2017Version 19AddedSKU added: JL 308A03-Jul-2017Version 18AddedSKU added: JL 448A01-May-2017Version 17ChangedMinor edit made on Technical Specifications06-Feb-2017Version 16AddedSKU added: J9830B07-Nov-2016Version 15ChangedProduct overview, Key Features, Features and Benefits, Technical Specifications updated.30-Sep-2016Version 14ChangedConfiguration section updated01-Aug-2016Version 13ChangedConfiguration section updated04-Jun-2016Version 12ChangedOverview, Features and Benefits, Technical Specifications and Accessories updated05-Jun-2016Version 11ChangedSKU descriptions updated on all the document08-Jan-2016Version 10ChangedSKU descriptions updated on all the document08-Jan-2016Version 9ChangedOuickSpecs name changed to Aruba 5400R zl2 Switch Series Product overview, Features and benefits, Technical Specifications and Accessories updated.27-Apr-2015Version 8ChangedAccessories added: J9986A, J9987A, J9988A, J9989A, J9990A, J9991A, J9992A, J9993A, J9995A, J9996A, JH231A, JH232A, JH233A, JH233A, Models added: JL001A, JL002A, JL003A, JL095A Overview and Technical Specifications were updated20-Mar-2015Version 5ChangedChangedChangedSKUs descriptions and Configuration menu updated17-Feb-2015Version 5ChangedChangedUpda	•			
07-Aug-2017Version 19AddedSKU added: JL308A03-Ju-2017Version 18AddedSKU added: JL448A01-May-2017Version 17ChangedMinor edit made on Technical Specifications06-Feb-2017Version 16AddedSKU added: J9830B07-Nov-2016Version 15ChangedProduct overview, Key Features, Features and Benefits, Technical Specifications updated.30-Sep-2016Version 14ChangedConfiguration section updated01-Aug-2016Version 12ChangedAdding #AC3 Option on Configuration Section.	08-Jan-2018	Version 20		Software feature update
03-Jul-2017Version 18AddedSKU added: JL 448A01-May-2017Version 17ChangedMinor edit made on Technical Specifications06-Feb-2017Version 16AddedSKU added: J9830B07-Nov-2016Version 15ChangedProduct overview, Key Features, Features and Benefits, Technical Specifications updated.30-Sep-2016Version 14ChangedConfiguration section updated01-Aug-2016Version 13ChangedAdding #AC3 Option on Configuration Section. Minor changes on Features and Benefits06-Jun-2016Version 12ChangedOverview, Features and Benefits, Technical Specifications and Accessories updated22-Apr-2016Version 11ChangedSKU descriptions updated on all the document08-Jan-2016Version 9ChangedURLs updated01-Dec-2015Version 9ChangedQuickSpecs name changed to Aruba 5400R zl2 Switch Series Product overview, Features and benefits, Technical Specifications and Accessories updated.27-Apr-2015Version 8ChangedAccessories added: J9986A, J9987A, J9988A, J9989A, J9990A, J9991A, J9992A, J9993A, J9995A, J9995A, J9996A, JH231A, JH233A, JH234A, JH235A,	07-Aug-2017	Version 19	Added	
06-Feb-2017Version 16AddedSKU added: J9830B07-Nov-2016Version 15ChangedProduct overview, Key Features, Features and Benefits, Technical Specifications updated.30-Sep-2016Version 14ChangedConfiguration section updated01-Aug-2016Version 13ChangedAdding #AC3 Option on Configuration Section. Minor changes on Features and Benefits06-Jun-2016Version 12ChangedOverview, Features and Benefits, Technical Specifications and Accessories updated22-Apr-2016Version 11ChangedSKU descriptions updated on all the document08-Jan-2016Version 10ChangedURLs updated01-Dec-2015Version 9ChangedQuickSpecs name changed to Aruba 5400R zl2 Switch Series Product overview, Features and benefits, Technical Specifications and Accessories added: J9986A, J9987A, J9988A, J9989A, J9990A, J9991A, J9992A, J9993A,		Version 18	Added	SKU added: JL448A
06-Feb-2017Version 16AddedSKU added: J9830B07-Nov-2016Version 15ChangedProduct overview, Key Features, Features and Benefits, Technical Specifications updated.30-Sep-2016Version 14ChangedConfiguration section updated01-Aug-2016Version 13ChangedAdding #AC3 Option on Configuration Section. Minor changes on Features and Benefits06-Jun-2016Version 12ChangedOverview, Features and Benefits, Technical Specifications and Accessories updated22-Apr-2016Version 11ChangedSKU descriptions updated on all the document08-Jan-2016Version 10ChangedURLs updated01-Dec-2015Version 9ChangedQuickSpecs name changed to Aruba 5400R zl2 Switch Series Product overview, Features and benefits, Technical Specifications and Accessories added: J9986A, J9987A, J9988A, J9989A, J9990A, J9991A, J9992A, J9993A,	01-May-2017	Version 17	Changed	Minor edit made on Technical Specifications
07-Nov-2016Version 15ChangedProduct overview, Key Features, Features and Benefits, Technical Specifications updated.30-Sep-2016Version 14ChangedConfiguration section updated01-Aug-2016Version 13ChangedAdding #AC3 Option on Configuration Section. Minor changes on Features and Benefits06-Jun-2016Version 12ChangedOverview, Features and Benefits, Technical Specifications and Accessories updated22-Apr-2016Version 11ChangedSKU descriptions updated on all the document08-Jan-2016Version 9ChangedOuickSpecs name changed to Aruba 5400R zl2 Switch Series Product overview, Features and benefits, Technical Specifications and Accessories updated.27-Apr-2015Version 8ChangedAccessories added: J9986A, J9987A, J9988A, J9989A, J9990A, J9991A, J9992A, J9992A, J9993A, J9995A, J9996A, JH231A, JH233A, JH233A, JH235A, JH235A, JH235A, JH236AModels added: JL001A, JL002A, JL003A, JL003A, JL095A Overview and Technical Specifications were updated20-Mar-2015Version 7ChangedConfiguration menu for 5400zl split in to 2 menus: 5400 zl, and 5400R zl217-Feb-2015Version 6ChangedSKUs descriptions and Configuration menu updated01-Dec-2014Version 5ChangedChanged were made on the entire document05-Sep-2014Version 4ChangedUpdated Configuration Menu14-Jul-2014Version 3ChangedUpdated Overview section and Technical Specifications17-Jun-2014Version 3ChangedUpdated Overview section and Technical Specifications		Version 16		·
01-Aug-2016Version 13ChangedAdding #AC3 Option on Configuration Section. Minor changes on Features and Benefits06-Jun-2016Version 12ChangedOverview, Features and Benefits, Technical Specifications and Accessories updated22-Apr-2016Version 11ChangedSKU descriptions updated on all the document08-Jan-2016Version 10ChangedURLs updated01-Dec-2015Version 9ChangedQuickSpecs name changed to Aruba 5400R zl2 Switch Series Product overview, Features and benefits, Technical Specifications and Accessories updated.27-Apr-2015Version 8ChangedAccessories added: J9986A, J9987A, J9988A, J9989A, J9990A, J9991A, J9992A, J9993A, J9995A, J9996A, JH231A, JH232A, JH233A, JH235A, JH235A, JH236A Models added: JL001A, JL002A, JL003A, JL095A Overview and Technical Specifications were updated20-Mar-2015Version 7ChangedConfiguration menu for 5400zl split in to 2 menus: 5400 zl, and 5400R zl217-Feb-2015Version 6ChangedSKUs descriptions and Configuration menu updated01-Dec-2014Version 5ChangedChanges were made on the entire document05-Sep-2014Version 4ChangedUpdated Configuration Menu14-Jul-2014Version 3ChangedUpdated Overview section and Technical Specifications17-Jun-2014Version 2ChangedUpdated I/O ports and slots in several models and also added the WLAN section to Accessories.			Changed	·
01-Aug-2016Version 13ChangedAdding #AC3 Option on Configuration Section. Minor changes on Features and Benefits06-Jun-2016Version 12ChangedOverview, Features and Benefits, Technical Specifications and Accessories updated22-Apr-2016Version 11ChangedSKU descriptions updated on all the document08-Jan-2016Version 10ChangedURLs updated01-Dec-2015Version 9ChangedQuickSpecs name changed to Aruba 5400R zl2 Switch Series Product overview, Features and benefits, Technical Specifications and Accessories updated.27-Apr-2015Version 8ChangedAccessories added: J9986A, J9987A, J9988A, J9989A, J9990A, J9991A, J9992A, J9993A, J9995A, J9996A, JH231A, JH232A, JH233A, JH235A, JH235A, JH236A Models added: JL001A, JL002A, JL003A, JL095A Overview and Technical Specifications were updated20-Mar-2015Version 7ChangedConfiguration menu for 5400zl split in to 2 menus: 5400 zl, and 5400R zl217-Feb-2015Version 6ChangedSKUs descriptions and Configuration menu updated01-Dec-2014Version 5ChangedChanges were made on the entire document05-Sep-2014Version 4ChangedUpdated Configuration Menu14-Jul-2014Version 3ChangedUpdated Overview section and Technical Specifications17-Jun-2014Version 2ChangedUpdated I/O ports and slots in several models and also added the WLAN section to Accessories.	30-Sep-2016	Version 14	Changed	Configuration section updated
Minor changes on Features and Benefits O6-Jun-2016 Version 12 Changed Overview, Features and Benefits, Technical Specifications and Accessories updated 22-Apr-2016 Version 11 Changed SKU descriptions updated on all the document O8-Jan-2016 Version 10 Changed URLs updated O1-Dec-2015 Version 9 Changed QuickSpecs name changed to Aruba 5400R zl2 Switch Series Product overview, Features and benefits, Technical Specifications and Accessories updated. 27-Apr-2015 Version 8 Changed Accessories added: J9986A, J9987A, J9989A, J9990A, J9991A, J9992A, J9993A, J9995A, J9996A, JH231A, JH232A, JH233A, JH235A, JH235A, JH236A Models added: JL001A, JL002A, JL003A, JL095A Overview and Technical Specifications were updated 20-Mar-2015 Version 7 Changed Configuration menu for 5400zl split in to 2 menus: 5400 zl, and 5400R zl2 17-Feb-2015 Version 6 Changed SKUs descriptions and Configuration menu updated O1-Dec-2014 Version 5 Changed Updated Configuration Menu 14-Jul-2014 Version 3 Changed Updated Overview section and Technical Specifications 17-Jun-2014 Version 2 Changed Updated I/O ports and slots in several models and also added the WLAN section to Accessories.	•	Version 13		
06-Jun-2016Version 12Changed updatedOverview, Features and Benefits, Technical Specifications and Accessories updated22-Apr-2016Version 11ChangedSKU descriptions updated on all the document08-Jan-2016Version 10ChangedURLs updated01-Dec-2015Version 9ChangedQuickSpecs name changed to Aruba 5400R zl2 Switch Series Product overview, Features and benefits, Technical Specifications and Accessories updated.27-Apr-2015Version 8ChangedAccessories added: J9986A, J9987A, J9988A, J9989A, J9990A, J9991A, J9992A, J9993A, J9995A, J9995A, J9996A, JH231A, JH232A, JH233A, JH235A, Models added: JL001A, JL002A, JL003A, JL095A Overview and Technical Specifications were updated20-Mar-2015Version 7ChangedConfiguration menu for 5400zl split in to 2 menus: 5400 zl, and 5400R zl217-Feb-2015Version 6ChangedSKUs descriptions and Configuration menu updated01-Dec-2014Version 5ChangedChanges were made on the entire document05-Sep-2014Version 4ChangedUpdated Configuration Menu14-Jul-2014Version 3ChangedUpdated Overview section and Technical Specifications17-Jun-2014Version 2ChangedUpdated I/O ports and slots in several models and also added the WLAN section to Accessories.	3			
08-Jan-2016Version 10ChangedURLs updated01-Dec-2015Version 9ChangedQuickSpecs name changed to Aruba 5400R zl2 Switch Series Product overview, Features and benefits, Technical Specifications and Accessories updated.27-Apr-2015Version 8ChangedAccessories added: J9986A, J9987A, J9988A, J9989A, J9990A, J9991A, J9992A, J9993A, J9995A, J9996A, JH231A, JH232A, JH233A, JH234A, JH235A, JH236A Models added: JL001A, JL002A, JL003A, JL095A Overview and Technical Specifications were updated20-Mar-2015Version 7ChangedConfiguration menu for 5400zl split in to 2 menus: 5400 zl, and 5400R zl217-Feb-2015Version 6ChangedSKUs descriptions and Configuration menu updated01-Dec-2014Version 5ChangedChanges were made on the entire document05-Sep-2014Version 4ChangedUpdated Configuration Menu14-Jul-2014Version 3ChangedUpdated Overview section and Technical Specifications17-Jun-2014Version 2ChangedUpdated I/O ports and slots in several models and also added the WLAN section to Accessories.	06-Jun-2016	Version 12	Changed	Overview, Features and Benefits, Technical Specifications and Accessories
08-Jan-2016Version 10ChangedURLs updated01-Dec-2015Version 9ChangedQuickSpecs name changed to Aruba 5400R zl2 Switch Series Product overview, Features and benefits, Technical Specifications and Accessories updated.27-Apr-2015Version 8ChangedAccessories added: J9986A, J9987A, J9988A, J9989A, J9990A, J9991A, J9992A, J9993A, J9995A, J9996A, JH231A, JH232A, JH233A, JH234A, JH235A, JH236A Models added: JL001A, JL002A, JL003A, JL095A Overview and Technical Specifications were updated20-Mar-2015Version 7ChangedConfiguration menu for 5400zl split in to 2 menus: 5400 zl, and 5400R zl217-Feb-2015Version 6ChangedSKUs descriptions and Configuration menu updated01-Dec-2014Version 5ChangedChanges were made on the entire document05-Sep-2014Version 4ChangedUpdated Configuration Menu14-Jul-2014Version 3ChangedUpdated Overview section and Technical Specifications17-Jun-2014Version 2ChangedUpdated I/O ports and slots in several models and also added the WLAN section to Accessories.	22-Apr-2016	Version 11	Changed	
O1-Dec-2015 Version 9 Changed QuickSpecs name changed to Aruba 5400R zl2 Switch Series Product overview, Features and benefits, Technical Specifications and Accessories updated. 27-Apr-2015 Version 8 Changed Accessories added: J9986A, J9987A, J9988A, J9989A, J9990A, J9991A, J9992A, J9993A, J9995A, J9996A, JH231A, JH232A, JH233A, JH234A, JH235A, JH235A, JH236A Models added: JL001A, JL002A, JL003A, JL095A Overview and Technical Specifications were updated Configuration menu for 5400zl split in to 2 menus: 5400 zl, and 5400R zl2 17-Feb-2015 Version 6 Changed SKUs descriptions and Configuration menu updated O1-Dec-2014 Version 5 Changed Changed Updated Configuration Menu 14-Jul-2014 Version 3 Changed Updated Overview section and Technical Specifications 17-Jun-2014 Version 2 Changed Updated I/O ports and slots in several models and also added the WLAN section to Accessories.				
J9992A, J9993A, J9995A, J9996A, JH231A, JH232A, JH233A, JH234A, JH235A, JH235A, JH236A Models added: JL001A, JL002A, JL003A, JL095A Overview and Technical Specifications were updated 20-Mar-2015 Version 7 Changed Configuration menu for 5400zl split in to 2 menus: 5400 zl, and 5400R zl2 17-Feb-2015 Version 6 Changed SKUs descriptions and Configuration menu updated 01-Dec-2014 Version 5 Changed Changes were made on the entire document 05-Sep-2014 Version 4 Changed Updated Configuration Menu 14-Jul-2014 Version 3 Changed Updated Overview section and Technical Specifications 17-Jun-2014 Version 2 Changed Updated I/O ports and slots in several models and also added the WLAN section to Accessories.	01-Dec-2015	Version 9	-	QuickSpecs name changed to Aruba 5400R zl2 Switch Series Product overview, Features and benefits, Technical Specifications and
17-Feb-2015Version 6ChangedSKUs descriptions and Configuration menu updated01-Dec-2014Version 5ChangedChanges were made on the entire document05-Sep-2014Version 4ChangedUpdated Configuration Menu14-Jul-2014Version 3ChangedUpdated Overview section and Technical Specifications17-Jun-2014Version 2ChangedUpdated I/O ports and slots in several models and also added the WLAN section to Accessories.	27-Apr-2015	Version 8	Changed	J9992A, J9993A, J9995A, J9996A, JH231A, JH232A, JH233A, JH234A, JH235A, JH236A Models added: JL001A, JL002A, JL003A, JL095A
17-Feb-2015Version 6ChangedSKUs descriptions and Configuration menu updated01-Dec-2014Version 5ChangedChanges were made on the entire document05-Sep-2014Version 4ChangedUpdated Configuration Menu14-Jul-2014Version 3ChangedUpdated Overview section and Technical Specifications17-Jun-2014Version 2ChangedUpdated I/O ports and slots in several models and also added the WLAN section to Accessories.	20-Mar-2015	Version 7	Changed	· · · · · · · · · · · · · · · · · · ·
01-Dec-2014Version 5ChangedChanges were made on the entire document05-Sep-2014Version 4ChangedUpdated Configuration Menu14-Jul-2014Version 3ChangedUpdated Overview section and Technical Specifications17-Jun-2014Version 2ChangedUpdated I/O ports and slots in several models and also added the WLAN section to Accessories.				
05-Sep-2014Version 4ChangedUpdated Configuration Menu14-Jul-2014Version 3ChangedUpdated Overview section and Technical Specifications17-Jun-2014Version 2ChangedUpdated I/O ports and slots in several models and also added the WLAN section to Accessories.				-
14-Jul-2014 Version 3 Changed Updated Overview section and Technical Specifications 17-Jun-2014 Version 2 Changed Updated I/O ports and slots in several models and also added the WLAN section to Accessories.				
17-Jun-2014 Version 2 Changed Updated I/O ports and slots in several models and also added the WLAN section to Accessories.	•			
				Updated I/O ports and slots in several models and also added the WLAN
	10-Jun-2014	Version 1	New	New QuickSpecs

Copyright

Make the right purchase decision. Contact our presales specialists.







Get updates



© Copyright 2021 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

To learn more, visit: http://www.hpe.com/networking

c04293383 - 14945 - Worldwide - V30 - 28-June-2021