QuickSpecs

Overview

Aruba 3810M Switch Series



Models

Aruba 3810M 24G 1-slot Switch	JL071A
Aruba 3810M 48G 1-slot Switch	JL072A
Aruba 3810M 24G PoE+ 1-slot Switch	JL073A
Aruba 3810M 48G PoE+ 1-slot Switch	JL074A
Aruba 3810M 16SFP+ 2-slot Switch	JL075A
Aruba 3810M 40G 8 HPE Smart Rate PoE+ 1-slot Switch	JL076A
Aruba 3810M 48G PoE+ 4SFP+ 680W Switch	JL428A
Aruba 3810M 48G PoE+ 4SFP+ 1050W Switch	JL429A
Aruba 3810M 24SFP+ 250W Switch	JL430A

Key features

- Advanced Layer 3 switch series with backplane stacking, dynamic segmentation, low latency and resiliency
- Advanced security and network management via Aruba ClearPass Policy Manager, Aruba AirWave and Aruba Central
- Modular 10GbE and 40GbE uplinks for wireless aggregation
- HPE Smart Rate for high-speed multi-gigabit capacity and PoE+ power
- Software-defined ready with REST APIs and OpenFlow support

The Aruba 3810 Switch Series provides performance and resiliency for enterprises, SMBs, and branch office networks. With HPE Smart Rate multi-gigabit ports for high speed access points and IoT devices, this advanced Layer 3 network switch delivers a better



Standard Features

application experience with low latency, virtualization with resilient stacking technology, and line rate 40GbE for plenty of back haul capacity.

A powerful Aruba ProVision ASIC delivers performance, robust feature support, and value with flexible programmability for the latest applications. The 3810 delivers resiliency and scalability via innovative backplane stacking technology and redundant, hot-swappable power supplies all in a convenient 1U form factor. It supports an advanced Layer 2 and 3 feature set with OSPF, IPv6, IPv4 BGP, Dynamic Segmentation, robust QoS, and policy-based routing are included with no software licensing.

The 3810M 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 offer a limited lifetime warranty.

Standard Features

Enhanced Capabilities and benefits

Software-defined networks

• Supports multiple programmatic interfaces

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

Unified Wired and Wireless Support

• ClearPass Policy Manager support

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

Dynamic segmentation

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

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

Layer 4 prioritization

based on TCP/UDP port numbers

• 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

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
- Reduced bandwidth: provides per-port, per-queue egress-based reduced bandwidth

Remote intelligent mirroring

mirrors selected ingress/egress traffic based on an ACL, port, MAC address, or VLAN to a local or remote HPE 8200 zl, 6600, 6200 yl, 5400 zl, or 3500 switch anywhere on the network

• Remote monitoring (RMON), Extended RMON (XRMON), and sFlow v5

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

• Traffic prioritization

allows real-time traffic classification into eight priority levels that are mapped to eight queues

Unknown Unicast Rate Limiting

throttles unicast packets with unknown destination addresses and limits flooding on the VLAN

Standard Features

Simplified management and configuration

• Flexible management

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

• Aruba Central cloud-based management platform

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

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

provides configuration automation for campus networks

Friendly port names

allows assignment of descriptive names to ports

• 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

• Command authorization

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

• Multiple configuration files

stores easily to the flash image

Dual flash images

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

Out-of-band Ethernet management port

enables management over a separate physical management network; and keeps management traffic segmented from network data traffic

Zero Touch ProVisioning (ZTP)

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

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

• IP service level agreements (SLA) for voice

monitor quality of voice traffic using the UDP jitter and UDP jitter for VoIP tests

Connectivity

• Jumbo frames on Gigabit Ethernet and 10-Gigabit Ethernet ports

allow high-performance remote backup and disaster-recovery services

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

Choice of uplinks:

- SFP+ uplink models: provide fiber-optic (up to 70 km) or direct-attach-cable (DAC) connectivity
- 10GBASE-T uplink models: offer 10GbE speeds, using standard RJ-45 connectors and standard twisted-pair cabling up to 100 m

Auto-MDIX

provides automatic adjustments for straight-through or crossover cables on all RJ-45 ports

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

Standard Features

Performance and efficiency

• 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

• Energy-efficient design:

- 80 PLUS Silver Certified power supply: increases power efficiency and savings
- Energy-efficient Ethernet (EEE) support: reduces power consumption in accordance with IEEE 802.3az

Meshed stacking technology:

- High-performance stacking: provides up to 336 Gb/s of stacking throughput; each 4-port stacking module can support up to 42 Gb/s in each direction per stacking port
- Ring, chain, and mesh topologies: support up to a 10-member ring or chain and 5-member fully meshed stacks;
 meshed topologies offer increased resiliency vs. a standard ring
- Virtualized switching: provides simplified management as the switches appear as a single chassis when stacked

Aruba ProVision ASIC

provides very low latency, increased packet buffering, and adaptive power consumption

Resiliency and high availability

• Virtual Router Redundancy Protocol (VRRP)

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

Nonstop switching and routing

improves network availability to better support critical applications, such as unified communication and mobility; traffic will continue to be forwarded during failovers, when the backup member of the stack becomes the commander

IEEE 802.3ad Link Aggregation Protocol (LACP) and Hewlett Packard Enterprise port trunking

support up to 144 trunks, each with up to 8 links (ports) per trunk

• IEEE 802.1s Multiple Spanning Tree

provides high link availability in multiple VLAN environments by allowing multiple spanning trees; provides legacy support for IEEE 802.1d and IEEE 802.1w

Dual hot-swappable power supplies

- Increased resiliency: with secondary power supply to enable complete switch power redundancy in case of power line or supply failure
- Secondary power supply increases available PoE+ power

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

SmartLink

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

Layer 2 switching

• IEEE 802.1ad QinQ

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

VLAN support and tagging

supports the IEEE 802.1Q standard and 4096 VLANs simultaneously

IEEE 802.1v protocol VLANs

isolate select non-IPv4 protocols automatically into their own VLANs

MAC-based VLAN

provides granular control and security; uses RADIUS to map a MAC address/user to specific VLANs

Rapid Per-VLAN Spanning Tree (RPVST+)

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

Aruba 3810M switch meshing

dynamically load balances across multiple active redundant links to increase available aggregate bandwidth; allows concurrent Layer 3 routing

GVRP and MVRP

allows automatic learning and dynamic assignment of VLANs

Standard Features

Layer 3 services

• 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

User datagram protocol (UDP) helper function

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

DHCP server

centralizes and reduces the cost of IPv4 address management

Bidirectional Forwarding Detection (BFD)

enables link connectivity monitoring and reduces network convergence time for static routing, OSPFv2, and VRRP

Layer 3 routing

Static IP routing

provides manually configured routing for both IPv4 and IPv6 networks

OSPF

provides OSPFv2 for IPv4 routing and OSPFv3 for IPv6 routing

Policy-based routing

makes routing decisions based on policies set by the network administrator

Border Gateway Protocol (BGP)

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

• Routing Information Protocol (RIP)

provides RIPv1, RIPv2, and RIPng routing

Security

• Control plane policing

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

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

• Secure Sockets Layer (SSL)

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

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

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

Secure FTP

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

• Switch management logon security

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

• Secure management access

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

ICMP throttling

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

Standard Features

• 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

• DHCP protection

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

• 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

Management Interface Wizard

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

• Security banner

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

Switch CPU protection

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

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 authentication methods

- IEEE 802.1X

authenticates multiple IEEE 802.1X users per port; prevents a user from "piggybacking" on another user's authentication

- Supports web-based authentication
- MAC-based client authentication

Concurrent authentication modes

enables a switch port to accept up to 32 sessions of 802.1X, Web, and MAC authentication

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

• IEEE 802.1AE MACsec

provides security on a link between two switch ports (1Gbps or 10Gbps) using standard encryption and authentication

• 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

Standard Features

Convergence

• IP multicast snooping (data-driven IGMP)

prevents flooding of IP multicast traffic

• 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

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

• Protocol Independent Multicast for IPv6

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

• IP multicast routing

includes PIM sparse and dense modes to route IP multicast traffic

- 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

Warranty and support

Limited Lifetime Warranty

see http://www.hpe.com/networking/warrantysummary for warranty and support information included with your product purchase.

Software releases

to find software for your product, refer to http://www.hpe.com/networking/support; for details on the software releases available with your product purchase, refer to http://www.hpe.com/networking/warrantysummary

Configuration Information

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.

Aruba 3810M 24G 1-slot Switch

JL071A

- 24 RJ-45 autosensing 10/100/1000 ports
- 1 open stacking module slot
- 1 open uplink module slot
- 1 Power Supply required (Max 2)
- 1U Height

Aruba 3810M 48G 1-slot Switch

JL072A

- 48 RJ-45 autosensing 10/100/1000 ports
- 1 open stacking module slot
- 1 open uplink module slot
- 1 Power Supply required (Max 2)
- 1U Height

Aruba 3810M 24G PoE+ 1-slot Switch

JL073A

- 24 RJ-45 autosensing 10/100/1000 PoE+ ports
- 1 open stacking module slot
- 1 open uplink module slot
- 1 Power Supply required (Max 2)
- 1U Height

Aruba 3810M 48G PoE+ 1-slot Switch

JL074A

- 48 RJ-45 autosensing 10/100/1000 PoE+ ports
- 1 open stacking module slot
- 1 open uplink module slot
- 1 Power Supply required (Max 2)
- 1U Height

Aruba 3810M 16SFP+ 2-slot Switch

JL075A

- 16 fixed 1000/10000 SFP/SFP+ ports
- min=0 \ max=16 SFP/SFP+ Transceivers

See Configuration RULE: 1

- 1 open stacking module slot
- 2 open uplink module slot
- 1 Power Supply required (Max 2)
- 1U Height

Aruba 3810M 40G 8 HPE Smart Rate PoE+ 1-slot Switch

JL076A

- 40 RJ-45 autosensing 10/100/1000 PoE+ ports
- 8 RJ-45 1/2.5/5/XGT PoE+ ports
- 1 open stacking module slot
- 1 open uplink module slot
- 1 Power Supply required (Max 2)
- 1U Height

Configuration Information

Aruba 3810M 48G PoE+ 4SFP+ 680W Switch	JL428A
 Includes 1 3810M 48 Port PoE+ Switch (JL074A) 	See
• 48 RJ-45 autosensing 10/100/1000 PoE+ ports	Configuration
• 4 fixed 1000/10000 SFP/SFP+ ports	RULE: 1, 2
• min=0 \ max=4 SFP/SFP+ Transceivers	
1 open stacking module slot Includes 1 uplink module (ILOSTA)	
 Includes 1 uplink module (JL083A) Includes 1 680W Power Supply (JL086A, Max 2) 	
1U - Height	
PDU Cable NA/MEX/TW/JP	JL428A#B2B
C15 PDU Jumper Cord (NA/MEX/TW/JP)	02:20, 222
PDU Cable ROW	JL428A#B2C
C15 PDU Jumper Cord (ROW)	
High Volt Power Supply to Wall Power Cord	JL428A#B2E
NEMA L6-20P Cord (NA/MEX/JP/TW)	
No Power Cord	JL428A#AC3
No Localized Power Cord Selected	
Aruba 3810M 48G PoE+ 4SFP+ 1050W Switch	JL429A
 Includes 1 3810M 48 Port PoE+ Switch (JL074A) 	See
• 48 RJ-45 autosensing 10/100/1000 PoE+ ports	Configuration
 4 fixed 1000/10000 SFP/SFP+ ports 	RULE: 1, 2
• min=0 \ max=4 SFP/SFP+ Transceivers	
1 open stacking module slot A policy of the description of the CH 007AN A policy of the CH 007AN A	
 Includes 1 uplink module (JL083A) Includes 1 1050W Power Supply (JL087A, May 2) 	
Includes 1 1050W Power Supply (JL087A, Max 2)1U - Height	
PDU Cable NA/MEX/TW/JP	JL429A#B2B
C15 PDU Jumper Cord (NA/MEX/TW/JP)	32 12 77 W B2B
PDU Cable ROW	JL429A#B2C
C15 PDU Jumper Cord (ROW)	
High Volt Power Supply to Wall Power Cord	JL429A#B2E
NEMA L6-20P Cord (NA/MEX/JP/TW)	
No Power Cord	JL429A#AC3
No Localized Power Cord Selected	
Aruba 3810M 24SFP+ 250W Switch	JL430A
 Includes 1 3810M 16 Port SFP+ Switch (JL075A) 	See
• 16 fixed 1000/10000 SFP/SFP+ ports	Configuration
 8 port SFP+ ports on the included modules 	RULE: 1, 2
min=0 \ max=24 SFP/SFP+ Transceivers	
1 open stacking module slot	
Includes 2 uplink modules (JL083A)	
 Includes 1 250W Power Supply (JL085A, Max 2) 	
• 1U - Height PDU Cable NA/MEX/TW/JP	JL430A#B2B
	JL43UA#BZB
C15 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW	JL430A#B2C
C15 PDU Jumper Cord (ROW)	JL43UM#DZC
- C13 i DO Juliipei Colu (NOW)	

Configuration Information

High Volt Power Supply to Wall Power Cord

JL430A#B2E

NEMA L6-20P Cord (NA/MEX/JP/TW)

No Power Cord JL430A#AC3

No Localized Power Cord Selected

Configuration Rules:

RULE 1 The following Transceivers install into this Switch (For the 1000/10000 SFP+ Ports):

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 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

RULE 2 Localization required on orders without #B2B, #B2C, #B2E options.

Rack Level Integration CTO Models

Aruba 3810M 24G 1-slot Switch

JL071A

- See 24 RJ-45 autosensing 10/100/1000 ports Configuration 1 open stacking module slot **RULE: 10, 11** 1 open uplink module slot
- 1 Power Supply required (Max 2)
- 1U Height

Aruba 3810M 48G 1-slot Switch

JL072A

- See • 48 RJ-45 autosensing 10/100/1000 ports Configuration 1 open stacking module slot **RULE: 10, 11**
- 1 open uplink module slot
- 1 Power Supply required (Max 2)
- 1U Height

Aruba 3810M 24G PoE+ 1-slot Switch

JL073A

- See 24 RJ-45 autosensing 10/100/1000 PoE+ ports Configuration 1 open stacking module slot **RULE: 10, 11**
- 1 open uplink module slot
- 1 Power Supply required (Max 2)
- 1U Height

Aruba 3810M 48G PoE+ 1-slot Switch

JL074A

- 48 RJ-45 autosensing 10/100/1000 PoE+ ports
- 1 open stacking module slot
- 1 open uplink module slot 1 Power Supply required (Max 2)
- 1U Height

See

Configuration

RULE: 10, 11

Page 11

Configuration Information

Aruba 3810M 16SFP+ 2-slot Switch	JL075A
• 16 fixed 1000/10000 SFP/SFP+ ports	See
• min=0 \ max=16 SFP/SFP+ Transceivers	Configuration
1 open stacking module slot	RULE: 1, 10, 11
2 open uplink module slot	
• 1 Power Supply required (Max 2)	
• 1U - Height	
Aruba 3810M 40G 8 HPE Smart Rate PoE+ 1-slot Switch	JL076A
 40 RJ-45 autosensing 10/100/1000 PoE+ ports 	See
• 8 RJ-45 1/2.5/5/XGT PoE+ ports	Configuration
1 open stacking module slot	RULE: 10, 11
1 open uplink module slot	
1 Power Supply required (Max 2)	
• 1U - Height	W 400A
Aruba 3810M 48G PoE+ 4SFP+ 680W Switch	JL428A
• Includes 1 3810M 48 Port PoE+ Switch (JL074A)	See
• 48 RJ-45 autosensing 10/100/1000 PoE+ ports	Configuration RULE: 1, 3, 4, 10,
• 4 fixed 1000/10000 SFP/SFP+ ports	11
• min=0 \ max=4 SFP/SFP+ Transceivers	
1 open stacking module slotIncludes 1 uplink module (JL083A)	
 Includes 1 dpink module (JL083A) Includes 1 680W Power Supply (JL086A, Max 2) 	
1U - Height	
PDU Cable NA/MEX/TW/JP	JL428A #B2B
C15 PDU Jumper Cord (NA/MEX/TW/JP)	32 126/ CH 323
PDU Cable ROW	JL428A #B2C
C15 PDU Jumper Cord (ROW)	32 126/ CH B2 C
High Volt Power Supply to Wall Power Cord	JL428A #B2E
NEMA L6-20P Cord (NA/MEX/JP/TW)	32 120/(11822
No Power Cord	JL428A#AC3
No Localized Power Cord Selected	3E+20/(///(C3
Aruba 3810M 48G PoE+ 4SFP+ 1050W Switch	JL429A
Includes 1 3810M 48 Port PoE+ Switch (JL074A)	See
48 RJ-45 autosensing 10/100/1000 PoE+ ports	Configuration
 4 fixed 1000/10000 SFP/SFP+ ports 	RULE: 1, 3, 4, 10,
• min=0 \ max=4 SFP/SFP+ Transceivers	11
1 open stacking module slot	
Includes 1 uplink module (JL083A)	
 Includes 1 1050W Power Supply (JL087A, Max 2) 	
• 1U - Height	
PDU Cable NA/MEX/TW/JP	JL429A #B2B
C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU Cable ROW	JL429A #B2C
C15 PDU Jumper Cord (ROW)	
High Volt Power Supply to Wall Power Cord	JL429A #B2E
NEMA L6-20P Cord (NA/MEX/JP/TW)	
No Power Cord	JL429A #AC3
No Localized Power Cord Selected	

Configuration Information

Aruba 3810M 24SFP+ 250W Switch Includes 1 3810M 16 Port SFP+ Switch (JL075A) 16 fixed 1000/10000 SFP/SFP+ ports 8 port SFP+ ports on the included modules min=0 \ max=24 SFP/SFP+ Transceivers 1 open stacking module slot Includes 2 uplink modules (JL083A) Includes 1 250W Power Supply (JL085A, Max 2) 1U - Height	JL430A See Configuration RULE: 1, 3, 4, 10, 11
PDU Cable NA/MEX/TW/JP	JL430A #B2B
C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU Cable ROW	JL430A #B2C
C15 PDU Jumper Cord (ROW)	
High Volt Power Supply to Wall Power Cord	JL430A #B2E
 NEMA L6-20P Cord (NA/MEX/JP/TW) 	
No Power Cord	JL430A #AC3

Configuration Rules:

No Localized Power Cord Selected

Configuration Rule	5.	
RULE 1	The following Transceivers install into this Switch (For the 1000/10000 SFP+ Ports):	
	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 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
RULE 3	Localization required on orders without #B2B, #B2C, #B2E options.	
RULE 4	When Switches are Factory Racked with this power supply, Then #B2B, or #B2C should	
	be the Defaulted Power Cable option on the Power Supplies. (See Drop down remark in	
RULE 10	"Internal Power Supplies" section.)	
	If switch is OD1 to Racks, then the J9583A#OD1 is also required.	
RULE 11	If the CTO Switch Chassis needs to be racked, Then the CTO Base Model needs to integrate (with #0D1) to the HPE Network Rack.	

Configuration Information

Remarks:

Drop down under power supply should offer the following options and results:

Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C ROW. (Watson Default B2B or B2C for Rack Level CTO)
Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO)

High Volt Switch/Router/Power Supply to Wall Power Cord - #B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)

Watson Blue **NOTE:** It is recommended that both power supplies match for full redundancy in the case of a fully populated switch, but not required.

Clic UNB - If an option is ordered with #0D1/#B01, then the switch must have #0D1 option.

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

Modules

Stacking Modules

System (std 0 // max=1) User Selection (min 0 / max=1) per Chassis Aruba 3810M 4-port Stacking Module

• min=1 \ max=4 Stacking cables

See Configuration

JL084A

RULE: 1

Configuration Rules:

RULE 1

One of the following Stacking Cables must be selected:

 Aruba 3800/3810M 0.5m Stacking Cable
 J9578A

 Aruba 3800/3810M 1m Stacking Cable
 J9665A

 Aruba 3800/3810M 3m Stacking Cable
 J9579A

Uplink Modules

JL071A, JL072A, JL073A, JL074A, JL076A Only System (std 0 // max 1) User Selection (min 0 / max 1) per Chassis JL075A Only System (std 0 // max 2) User Selection (min 0 / max 2) per Chassis JL428A, JL429A Only System (std 1 // max 1) User Selection (min 0 / max 0) per Chassis JL430A Only System (std 2 // max 2) User Selection (min 0 / max 0) per Chassis

Aruba 3810M/2930M 1-port QSFP+ 40GbE Module

JL078A

• min=0 \ max=1 QSFP+ Transceiver

See Configuration

Aruba 3810M 2QSFP+ 40GbE Module

RULE: 1

min=0 \ max=2 QSFP+ Transceiver

See Configuration

Aruba 3810M 4 HPE Smart Rate PoE+ Module

RULE: 1, 3 JL081A

4 x HPE Smart Rate Ports

JL079A

Aruba 3810M/2930M 4-port 100M/1G/10G SFP+ MACsec Module

JL083A See

• min=0 \ max=4 SFP/SFP+ Transceivers

Configuration RULE: 2

The following Transceivers install into this Module: (Use #0D1 or #B01 if switch is CTO)

Configuration Information

HPE X122 1G SFP LC BX-U Transceiver

HPE X111 100M SFP LC FX Transceiver

Aruba 100M SFP LC FX 2km MMF Transceiver

Aruba 1G SFP LC LX 10km SMF Transceiver

Aruba 1G SFP LC LH 70km SMF Transceiver

Aruba 1G SFP RJ45 T 100m Cat5e Transceiver

Aruba 1G SFP LC SX 500m OM2 MMF Transceiver

Configuration Rules:

RULE 1

KOLL 1	- 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
	HPE X242 40G QSFP+ to QSFP+ 1m Direct Attach Copper Cable	JH234A
	HPE X242 40G QSFP+ to QSFP+ 3m Direct Attach Copper Cable	JH235A
	HPE X242 40G QSFP+ to QSFP+ 5m Direct Attach Copper Cable	JH236A
	Aruba 40G QSFP+ LC Bidirectional 150m MMF 2-strand Transceiver	JL308A
RULE 2	The following Transceivers install into this Switch (For the 1000/10000 SFP+ Ports):	
	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 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
RULE 3	This module is only available for the following switches:	
	Aruba 3810M 48G 1-slot Switch	JL072A
	Aruba 3810M 48G PoE+ 1-slot Switch	JL074A
	Aruba 3810M 40G 8 HPE Smart Rate PoE+ 1-slot Switch	JL076A
Remarks:	Watson Only Blue NOTE Although all 3810M/2930M Switches are compatible with the 4	
	Port HPE Smart Rate module, non PoE switches do not provide PoE power to the HPE	
	Smart Rate Module.	
Transceivers SFP Transceive		
	SFP LC LH Transceiver	J4860C
	SFP LC LX Transceiver	J4859C
	SFP LC SX Transceiver	J4858C
	SFP LC 3X Transceiver	J4636C J9142B
111 6 7122 10	The by Transcrive	3/1420

J9143B

J9054C

J9054D

J4858D

J4859D

J4860D

J8177D

Configuration Information

SFP+ Transceivers	
HPE X132 10G SFP+ LC ER Transceiver	J9153A
HPE X132 10G SFP+ LC SR Transceiver	J9150A
HPE X132 10G SFP+ LC LR Transceiver	J9151A
HPE X132 10G SFP+ LC LRM Transceiver	J9152A
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
HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
QSFP+ Transceivers	
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
Internal Power Supplies	
System (std 0 // max=2) User Selection (min 1 / max=2) per Switch	
For JL428A, JL429A, JL430A System (std 1 // max=2) User Selection (min 0 / max=1) per Switch	
Aruba X371 12VDC 250W 100-240VAC Power Supply	JL085A
	See
	Configuration
	RULE: 1, 3, 4
PDU Cable NA/MEX/TW/JP	JL085A #B2B
C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU Cable ROW	JL085A #B2C
C15 PDU Jumper Cord (ROW)	
High Volt Power Supply to Wall Power Cord	JL085A #B2E
NEMA L6-20P Cord (NA/MEX/JP/TW)	
No Power Cord	JL085A #AC3
No Localized Power Cord Selected	2222
Aruba X372 54VDC 680W 100-240VAC Power Supply	JL086A
7 Haba 7372 3 TVDC 33017 100 2 TOV/TCT SWEI Supply	See
	Configuration
	RULE: 2, 3, 4
PDU Cable NA/MEX/TW/JP	JL086A #B2B
C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU Cable ROW	JL086A #B2C
C15 PDU Jumper Cord (ROW)	
High Volt Power Supply to Wall Power Cord	JL086A #B2E
NEMA L6-20P Cord (NA/MEX/JP/TW)	32300/(11022
- HENRY EO ZON CONGRANDINE/GONTENGO	

Configuration Information

No Power Cord JL086A #AC3

No Localized Power Cord Selected

Aruba X372 54VDC 1050W 110-240VAC Power Supply

See

JL087A

Configuration **RULE:** 2, 3, 4

PDU Cable NA/MEX/TW/JP

JL087A #B2B

C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU Cable ROW

JL087A #B2C

• C15 PDU Jumper Cord (ROW)

High Volt Power Supply to Wall Power Cord

JL087A #B2E

• NEMA L6-20P Cord (NA/MEX/JP/TW)

No Power Cord

JL087A #AC3

No Localized Power Cord Selected

Configuration Rules:

RULE 1 If this Power supply is selected, Then JL071A, JL072A, JL075A, JL430A must be the

switch its installed into.

RULE 2 If this Power supply is selected, Then JL073A, JL074A, JL076A, JL428A, JL429A must be

the switch its installed into.

RULE 3 Localization required on orders without #B2B or #B2C options.

RULE 4 When Switches are Factory Racked with this power supply, Then #B2B, or #B2C should

be the Defaulted Power Cable option on the Power Supplies. (See Drop down remark in

"Internal Power Supplies" section.)

Remarks: Drop down under power supply should offer the following options and results:

Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C ROW. (Watson Default B2B or B2C for Rack Level CTO) Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for

BTO and Box Level CTO)

High Volt Switch/Router/Power Supply to Wall Power Cord - #B2E Option. (Offered only

in North America, Mexico, Taiwan, and Japan) No Localized Power Cord Selected - #AC3 Option

Watson Blue NOTE: It is recommended that both power supplies match for full redundancy

in the case of a fully populated switch, but not required.

Configuration Information

Cables

(std 0 // max 99) User Selection (min 0 // max 99) per switch	
Aruba 3800/3810M 0.5m Stacking Cable	J9578A
Aruba 3800/3810M 1m Stacking Cable	J9665A
Aruba 3800/3810M 3m Stacking Cable	J9579A

Console Cables

(std 0 // max 99) User Selection (min 0 // max 99) per switch

Aruba X2C2 RJ45 to DB9 Console Cable JL448A

Allaba AZEZ No 10 DB A Console Cable	3L110/1
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 Enclosure Options

Rack Mount Kit

(std 0 // max 1) User Selection (min 0 // max 1) per switch HPE X410 1U Universal 4-post Rackmount Kit

J9583A

Configuration

RULE: 1

Configuration Rules:

RULE 1 If this switch is factory installed in HPE Network Racks, Then the J9583A#0D1 is required.

Fan Tray

Aruba 3810 Switch Fan Tray

JL088A

• This is a Spare Only

Technical Specifications

Aruba 3810M 24G 1-slot Switch (JL071A)

Included accessories 1 Aruba 3810 Switch Fan Tray (JL088A)

I/O ports and slots 24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-

TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only; Ports 1 - 24 support MACSec Supports a maximum of 4 SFP+ ports or 1 40GbE ports, with optional

module

1 open module slot

Supports a maximum of 4 SFP+ ports or 1 40GbE ports, with optional module

Additional ports and slots 1 stacking module slot

1 RJ-45 serial console port

1 RJ-45 out-of-band management port 1 dual-personality (RJ-45 or USB micro-B)

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray includes: 1 x JL088A

1 fan tray slot

Switch ships with 1 JL088A fan tray installed. Spares ordered separately.

Physical characteristics Dimensions 17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)

Weight 12.76 lb (5.79 kg)

Memory and processor P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card

Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal

Mounting and enclosure Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface

mounting only

Performance IPv6 Ready Certified

1000 Mb Latency $< 2.8 \mu s$ (FIFO 64-byte packets)10 Gbps Latency $< 1.8 \mu s$ (FIFO 64-byte packets)40 Gbps Latency $< 1.5 \mu s$ (FIFO 64-byte packets)Throughputup to 95.2 Mpps (64-byte packets)

Routing/Switching 160 Gbps

capacity

Switch fabric speed 169 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)

Operating relative

humidity

15% to 95% @ 104°F (40°C), noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

15% to 90% @ 149°F (65°C), noncondensing

Altitude up to 10,000 ft (3 km)

Acoustic Power: 39 dB, Pressure: 22.8 dB **Primary Airflow** Front-to-side and front-to-rear

Direction

Technical Specifications

Electrical Characteristics Frequency 50/60Hz

Voltage JL085A PSU: 100-127/200-240 VAC

Current JL085A PSU (Each): 1A/0.5A

Max/Idle Power Rating

(Switch+ 1 PSU) JL079A: 7W/3W JL081A: 4W/3W

JL083A: 11W/4W

JL078A: 4W/3W

Maximum Heat 310.31

Dissipation *(Max Case)

PoE Power (Max

Possible)

N/A

Notes Idle power is the actual power consumption of the device with no ports

connected. Maximum power rating and maximum heat dissipation are the worst case theoretical maximum numbers provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports

plugged in, and all modules populated. This is a modular product.

*Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and

accessories, please consult configurator.

Safety EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-

1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1:

2007 Class1 Class 1 Laser Products / Laser Klasse 1; UL 62368-1 Ed.2

Emissions FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010

+A12:2011+A2:2013

Immunity Generic EN55022: 2010

EN EN55024: 2010 **ESD** IEC 61000-4-2

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

Conducted IEC 61000-4-6; 3 V

Power frequency

magnetic field

IEC 61000-4-8; 1 A/m, 50 or 60 Hz

Voltage dips and interruptions

IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods

Harmonics EN61000-3-2:2006 +A1:2009 +A2:2009 Class A

Flicker EN61000-3-3:2008

Management Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface;

Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of-band;

Out-of-band management (serial RS-232c or micro usb)

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.

Technical Specifications

Aruba 3810M 48G 1-slot Switch (JL072A)

Included accessories 1 Aruba 3810 Switch Fan Tray (JL088A)

I/O ports and slots 48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-

TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full

only; Ports 1 - 48 support MACSec

1 open module slot

Supports a maximum of 4 SFP+ ports or 2 40GbE ports, with optional module

Additional ports and slots 1 stacking module slot

1 RJ-45 serial console port

1 RJ-45 out-of-band management port 1 dual-personality (RJ-45 or USB micro-B)

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray includes: 1 x JL088A

1 fan tray slot

Switch ships with 1 JL088A fan tray installed. Spares ordered separately.

Physical characteristics Dimensions 17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)

Weight 13.20 lb (5.99 kg)

Memory and processor P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card

Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal

Mounting and enclosure Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface

mounting only

Performance IPv6 Ready Certified

1000 Mb Latency $< 2.8 \ \mu s$ (FIFO 64-byte packets)10 Gbps Latency $< 1.8 \ \mu s$ (FIFO 64-byte packets)40 Gbps Latency $< 1.5 \ \mu s$ (FIFO 64-byte packets)Throughputup to 190.5 Mpps (64-byte packets)

Routing/Switching

capacity

320 Gbps

Switch fabric speed 338 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)

Operating relative

humidity

15% to 95% @ 104°F (40°C), noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

450/ - 000/ 0 4 / 005 (/ 500)

relative humidity

15% to 90% @ 149°F (65°C), noncondensing

Altitude up to 10,000 ft (3 km)

Acoustic Power: 38 dB, Pressure: 21.8 dB **Primary Airflow** Front-to-side and front-to-rear

Direction

Page 21

Technical Specifications

Electrical Characteristics Frequency 50/60Hz

> Voltage JL085A PSU: 100-127/200-240 VAC

Current JL085A PSU (Each): 1A/0.5A

Max/Idle Power Rating

(Switch+ 1 PSU)

95W/78W

Second PSU Power

Adder

10W

Max/Idle Uplink Power

Adder

JL079A: 7W/3W JL081A: 4W/3W JL083A: 11W/4W

JL078A: 4W/3W

Maximum Heat 395.56

Dissipation *(Max Case)

PoE Power (Max

Possible)

N/A

Notes Idle power is the actual power consumption of the device with no ports

connected. Maximum power rating and maximum heat dissipation are the worst case theoretical maximum numbers provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports

plugged in, and all modules populated. This is a modular product.

*Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and

IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods

accessories, please consult configurator.

Safety EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-

1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1:

2007 Class 1 Class 1 Laser Products / Laser Klasse 1; UL 62368-1 Ed.2

Emissions FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010

+A12:2011+A2:2013

EN55022: 2010 **Immunity** Generic

> EN EN55024: 2010 **ESD** IEC 61000-4-2

Radiated IEC 61000-4-3; 3 V/m

EFT/Burst IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)

IEC 61000-4-5; 1 kV/2 kV AC Surge

Conducted IEC 61000-4-6: 3 V

Power frequency

magnetic field

IEC 61000-4-8; 1 A/m, 50 or 60 Hz

Voltage dips and

interruptions

Harmonics

EN61000-3-2:2006 +A1:2009 +A2:2009 Class A

Flicker EN61000-3-3:2008

Technical Specifications

Management Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface;

Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of-band;

Out-of-band management (serial RS-232c or micro usb)

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 3810M 24G PoE+ 1-slot Switch (JL073A)

Included accessories 1 Aruba 3810 Switch Fan Tray (JL088A)

I/O ports and slots 24 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+); Duplex: 10BASE-T/100BASE-TX:

half or full; 1000BASE-T: full only; Ports 1 - 24 support MACSec

1 open module slot

Supports a maximum of 4 SFP+ ports or 1 40GbE ports, with optional module

Additional ports and slots 1 stacking module slot

1 RJ-45 serial console port

1 RJ-45 out-of-band management port 1 dual-personality (RJ-45 or USB micro-B)

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray includes: 1 x JL088A

1 fan tray slot

Switch ships with 1 JL088A fan tray installed. Spares ordered separately

Physical characteristics Dimensions 17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)

Weight 13.02 lb (5.91 kg)

Memory and processor P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card

Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal

Mounting and enclosure Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface

mounting only

Performance IPv6 Ready Certified

1000 Mb Latency $< 2.8 \mu s$ (FIFO 64-byte packets)10 Gbps Latency $< 1.8 \mu s$ (FIFO 64-byte packets)40 Gbps Latency $< 1.5 \mu s$ (FIFO 64-byte packets)Throughputup to 95.2 Mpps (64-byte packets)

Routing/Switching 160 Gbps

capacity

Switch fabric speed 169 Gbps

Routing table size 10000 entries (IPv4), 5000 entries (IPv6)

MAC address table size 64000 entries

Technical Specifications

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

Operating relative

humidity

15% to 95% @ 104°F (40°C), noncondensing

15% to 90% @ 149°F (65°C), noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

Altitude up to 10,000 ft (3 km)

Acoustic Power: 44 dB, Pressure: 27.6 dB **Primary Airflow** Front-to-side and front-to-rear **Direction**

Electrical Characteristics Frequency

50/60Hz

Voltage JL086A PSU: 100-127/200-240 VAC

JL087A PSU: 110-127/200-240 VAC

Current JL086A PSU (Each): 5A/2.5A

JL087A PSU (Each): 8.5A/5A

Max/Idle Power Rating

(Switch+ 1 PSU)

95W/82W

Second PSU Power

Adder

10W

Max/Idle Uplink Power

Adder

JL078A: 4W/3W JL079A: 7W/3W JL081A: 4W/3W

JL083A: 11W/4W

Maximum Heat

PoE Power (Max

Dissipation *(Max Case)

Possible)

Notes

840W

395.56

Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst case theoretical maximum numbers provide for planning the

infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. This is a modular product.

*Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and

accessories, please consult configurator.

EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-Safety

> 1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1:

2007 Class1 Class 1 Laser Products / Laser Klasse 1; UL 62368-1 Ed.2

Emissions FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010

+A12:2011+A2:2013

Technical Specifications

Immunity Generic EN55022: 2010

EN EN55024: 2010 **ESD** IEC 61000-4-2

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

Conducted IEC 61000-4-6; 3 V

Power frequency IEC 61000-4-8; 1 A/m, 50 or 60 Hz

magnetic field

Voltage dips and IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods

interruptions

Harmonics EN61000-3-2:2006 +A1:2009 +A2:2009 Class A

Flicker EN61000-3-3:2008

Management Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface;

Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of-band;

Out-of-band management (serial RS-232c or micro usb)

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 3810M 48G PoE+ 1-slot Switch (JL074A)

Included accessories 1 Aruba 3810 Switch Fan Tray (JL088A)

I/O ports and slots 48 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+); Duplex: 10BASE-T/100BASE-TX:

half or full; 1000BASE-T: full only; Ports 1 - 48 support MACSec

1 open module slot

Supports a maximum of 4 SFP+ ports or 2 40GbE ports, with optional module

Additional ports and slots 1 stacking module slot

1 RJ-45 serial console port

1 RJ-45 out-of-band management port 1 dual-personality (RJ-45 or USB micro-B)

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray includes: 1 x JL088A

1 fan tray slot

Switch ships with 1 JL088A fan tray installed. Spares ordered separately.

Physical characteristics Dimensions $17.42(w) \times 16.98(d) \times 1.73(h)$ in $(44.25 \times 43.13 \times 4.39 \text{ cm})$ (1U height)

Weight 13.62 lb (6.18 kg)

Memory and processor P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card

Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal

Mounting and enclosure Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface

mounting only

Technical Specifications

Performance IPv6 Ready Certified

 $\begin{array}{ll} \textbf{1000 Mb Latency} & < 2.8 \ \mu \text{s} \ (\text{FIFO 64-byte packets}) \\ \textbf{10 Gbps Latency} & < 1.8 \ \mu \text{s} \ (\text{FIFO 64-byte packets}) \\ \textbf{40 Gbps Latency} & < 1.5 \ \mu \text{s} \ (\text{FIFO 64-byte packets}) \\ \end{array}$

Routing/Switching

capacity

Throughput

320 Gbps

Switch fabric speed 338 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)

Operating relative

humidity

15% to 95% @ 104°F (40°C), noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

up to 190.5 Mpps (64-byte packets)

Nonoperating/Storage

relative humidity

15% to 90% @ 149°F (65°C), noncondensing

Altitude up to 10,000 ft (3 km)

Acoustic Power: 47 dB, Pressure: 29.4 dB **Primary Airflow** Front-to-side and front-to-rear

Direction

Electrical Characteristics Frequency 50/60Hz

Voltage JL086A PSU: 100-127/200-240 VAC

135W/103W

JL087A PSU: 110-127/200-240 VAC

Current JL086A PSU (Each): 5A/2.5A

JL087A PSU (Each): 8.5A/5A

Max/Idle Power Rating

(Switch+ 1 PSU)

Second PSU Power

Adder

10W

Max/Idle Uplink Power

Adder

JL078A: 4W/3W JL079A: 7W/3W JL081A: 4W/3W JL083A: 11W/4W

Maximum Heat

531.96

Dissipation *(Max Case)

PoE Power (Max

Possible)

1440W

Notes

Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst case theoretical maximum numbers provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. This is a modular product.

*Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and accessories, please consult configurator.

Technical Specifications

Safety EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-

1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1:

2007 Class1 Class 1 Laser Products / Laser Klasse 1; UL 62368-1 Ed.2

Emissions FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010

+A12:2011+A2:2013

Immunity Generic EN55022: 2010

EN EN55024: 2010 **ESD** IEC 61000-4-2

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

Conducted IEC 61000-4-6; 3 V

Power frequency IEC 61000-4-8; 1 A/m, 50 or 60 Hz magnetic field

Voltage dips and

IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods

interruptions

Harmonics EN61000-3-2:2006 +A1:2009 +A2:2009 Class A

Flicker EN61000-3-3:2008

Management Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface;

Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of-band;

Out-of-band management (serial RS-232c or micro usb)

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 3810M 16SFP+ 2-slot Switch (JL075A)

Included accessories 1 Aruba 3810 Switch Fan Tray (JL088A)

I/O ports and slots 16 SFP+ fixed 1000/10000 SFP+ ports; Duplex: 100BASE-TX: half or full; 1000BASE-T: full only; Ports

1 - 16 support MACSec2 open module slots

Supports a maximum of 8 SFP+ ports or 2 40GbE ports, with optional module

Additional ports and slots 1 stacking module slot

1 RJ-45 serial console port

1 RJ-45 out-of-band management port 1 dual-personality (RJ-45 or USB micro-B)

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray includes: 1 x JL088A

1 fan tray slot

Switch ships with 1 JL088A fan tray installed. Spares ordered separately.

Physical characteristics Dimensions 17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)

Weight 13.28 lb (6.02 kg)

Memory and processor P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card

Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal

Technical Specifications

Mounting and enclosure Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface

mounting only

Performance IPv6 Ready Certified

> 1000 Mb Latency $< 2.8 \mu s$ (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 285.7 Mpps (64-byte packets)

Routing/Switching

capacity

480 Gbps

508 Gbps Switch fabric speed

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)

Operating relative

humidity

15% to 95% @ 104°F (40°C), noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

15% to 90% @ 149°F (65°C), noncondensing

Altitude up to 10,000 ft (3 km)

Acoustic Power: 39 dB, Pressure: 22.3 dB Front-to-side and front-to-rear **Primary Airflow**

Direction

Electrical Characteristics Frequency 50/60Hz

> JL085A PSU: 100-127/200-240 VAC Voltage

> > 120W/95W

JL085A PSU (Each): 1A/0.5A Current

Max/Idle Power Rating

(Switch+ 1 PSU)

Second PSU Power

Adder

10W

Max/Idle Uplink Power JL078A: 4W/3W Adder JL079A: 7W/3W

> JL081A: 4W/3W JL083A: 11W/4W

480.81 **Maximum Heat**

Dissipation *(Max Case)

PoE Power (Max

Possible)

N/A

Notes

Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst case theoretical maximum numbers provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. This is a modular product.

*Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and accessories, please consult configurator

Aruba 3810M Switch Series QuickSpecs

Technical Specifications

EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-Safety

> 1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1:

2007 Class 1 Class 1 Laser Products / Laser Klasse 1: UL 62368-1 Ed.2

Emissions FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010

+A12:2011+A2:2013

Generic **Immunity** EN55022: 2010

> ΕN EN55024: 2010 **ESD** IEC 61000-4-2

Radiated IEC 61000-4-3; 3 V/m

EFT/Burst IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)

IEC 61000-4-5; 1 kV/2 kV AC Surge

Conducted IEC 61000-4-6; 3 V

Power frequency IEC 61000-4-8; 1 A/m, 50 or 60 Hz magnetic field

Voltage dips and

IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods

interruptions

Harmonics EN61000-3-2:2006 +A1:2009 +A2:2009 Class A

Flicker EN61000-3-3:2008

Aruba AirWave Network Management; IMC - Intelligent Management Center; Command-line interface; Management

Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of-band;

Out-of-band management (serial RS-232c or micro usb)

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 3810M 40G 8 HPE Smart Rate PoE+ 1-slot Switch (JL076A)

Included accessories 1 Aruba 3810 Switch Fan Tray (JL088A)

I/O ports and slots 40 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+); Duplex: 10BASE-T/100BASE-TX:

half or full; 1000BASE-T: full only; Ports 1 - 40 support MACSec

8 RJ-45 HPE Smart Rate Multi-Gigabit ports; Ports 1 - 8 support MACSec

1 open module slot

Supports a maximum of 4 SFP+ ports or 2 40GbE ports, with optional module

Additional ports and slots 1 stacking module slot

1 RJ-45 serial console port

1 RJ-45 out-of-band management port 1 dual-personality (RJ-45 or USB micro-B)

2 power supply slots Power supplies

1 minimum power supply required (ordered separately)

Fan tray includes: 1 x JL088A

1 fan trav slot

Switch ships with 1 JL088A fan tray installed. Spares ordered separately.

17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height) Physical characteristics **Dimensions**

> Weight 13.61 lb (6.17 kg)

Technical Specifications

Memory and processor P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card

Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal

Mounting and enclosure Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface

mounting only

Performance IPv6 Ready Certified

1000 Mb Latency $< 2.8 \ \mu s$ (FIFO 64-byte packets)10 Gbps Latency $< 1.8 \ \mu s$ (FIFO 64-byte packets)40 Gbps Latency $< 1.5 \ \mu s$ (FIFO 64-byte packets)

Throughput up to 273.8 Mpps (64-byte packets)

Routing/Switching

capacity

480 Gbps

Switch fabric speed 508 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)

Operating relative

humidity

15% to 05% @ 10/%5 (/0%) manage

15% to 95% @ 104°F (40°C), noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

15% to 90% @ $149^{\circ}F$ (65°C), noncondensing

Altitude up to 10,000 ft (3 km)

AcousticPower: 49 dB, Pressure: 31.5 dBPrimary AirflowFront-to-side and front-to-rear

Direction

Technical Specifications

Electrical Characteristics Frequency 50/60Hz

Voltage JL086A PSU: 100-127/200-240 VAC

JL087A PSU: 110-127/200-240 VAC

Current JL086A PSU (Each): 5A/2.5A

JL087A PSU (Each): 8.5A/5A

Max/Idle Power Rating

(Switch+ 1 PSU)

190W/158W

Second PSU Power

Adder

10W

Max/Idle Uplink Power

Adder

JL078A: 4W/3W JL079A: 7W/3W JL081A: 4W/3W

JL083A: 11W/4W

Maximum Heat

Dissipation *(Max Case)

PoE Power (Max

Possible)

1440W

719.51

Notes

Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst case theoretical maximum numbers provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports

plugged in, and all modules populated. This is a modular product.

*Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and

accessories, please consult configurator.

Safety EN 60950/IEC 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-

1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1:

2007 Class 1 Class 1 Laser Products / Laser Klasse 1: UL 62368-1 Ed.2

Emissions FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010

+A12:2011+A2:2013

Immunity Generic EN55022: 2010

EN EN55024: 2010 **ESD** IEC 61000-4-2

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

Conducted IEC 61000-4-6; 3 V

Power frequency magnetic field

IEC 61000-4-8; 1 A/m, 50 or 60 Hz

Voltage dips and

interruptions

IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods

Harmonics EN61000-3-2:2006 +A1:2009 +A2:2009 Class A

Flicker EN61000-3-3:2008

Technical Specifications

Management Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface;

Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of-band;

Out-of-band management (serial RS-232c or micro usb)

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 3810M 48G PoE+ 4SFP+ 680W Switch (JL428A)

Included accessories 1 Aruba 3810M 48G PoE+ 1-slot Switch (JL074A)

1 Aruba X372 54VDC 680W Power Supply (JL086A)

1 Aruba 3810M 4SFP+ Module (JL083A) 1 Aruba 3810 Switch Fan Tray (JL088A)

I/O ports and slots 48 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+); Duplex: 10BASE-T/100BASE-TX:

half or full; 1000BASE-T: full only; Ports 1 - 48 support MACSec

1 open module slot

Supports a maximum of 4 SFP+ ports or 2 40GbE ports, with optional module

Additional ports and slots 1 stacking module slot

1 RJ-45 serial console port

1 RJ-45 out-of-band management port 1 dual-personality (RJ-45 or USB micro-B)

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray includes: 1 x JL088A

1 fan tray slot

Switch ships with 1 JL088A fan tray installed. Spares ordered separately.

Physical characteristics Dimensions 17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)

Weight 13.62 lb (6.18 kg)

Memory and processor P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card

Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal

Mounting and enclosure Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface

mounting only

Performance IPv6 Ready Certified

1000 Mb Latency $< 2.8 \ \mu s$ (FIFO 64-byte packets)10 Gbps Latency $< 1.8 \ \mu s$ (FIFO 64-byte packets)40 Gbps Latency $< 1.5 \ \mu s$ (FIFO 64-byte packets)Throughputup to 190.5 Mpps (64-byte packets)

Routing/Switching 320 Gbps

capacity

Switch fabric speed 338 Gbps

Routing table size 10000 entries (IPv4), 5000 entries (IPv6)

MAC address table size 64000 entries

Technical Specifications

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

Operating relative

humidity

15% to 95% @ 104°F (40°C), noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

15% to 90% @ 149°F (65°C), noncondensing

Altitude up to 10,000 ft (3 km)

Acoustic Power: 47 dB, Pressure: 29.4 dB **Primary Airflow** Front-to-side and front-to-rear

Direction

Electrical Characteristics Frequency 50/60Hz

Voltage JL085A PSU: 100-127/200-240 VAC

Current JL085A PSU (Each): 1A/0.5A

Max/Idle Power Rating

(Switch+ 1 PSU)

70W/55W

Second PSU Power

Adder

10W

Max/Idle Uplink Power

Adder

JL078A: 4W/3W JL079A: 7W/3W JL081A: 4W/3W

JL083A: 11W/4W

Maximum Heat

Dissipation *(Max Case)

PoE Power (Max Possible)

N/A

310.31

Notes

Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst case theoretical maximum numbers provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports

plugged in, and all modules populated. This is a modular product.

*Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and

accessories, please consult configurator.

Safety EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-

1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1:

2007 Class1 Class 1 Laser Products / Laser Klasse 1; UL 62368-1 Ed.2

Emissions FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010

+A12:2011+A2:2013

Technical Specifications

Immunity Generic EN55022: 2010

EN EN55024: 2010 **ESD** IEC 61000-4-2

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

Conducted IEC 61000-4-6; 3 V

Power frequency IEC 61000-4-8; 1 A/m, 50 or 60 Hz

magnetic field

Voltage dips and IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods

interruptions

Harmonics EN61000-3-2:2006 +A1:2009 +A2:2009 Class A

Flicker EN61000-3-3:2008

Management Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface;

Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of-band;

Out-of-band management (serial RS-232c or micro usb)

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 3810M 48G PoE+ 4SFP+ 1050W Switch (JL429A)

Included accessories 1 Aruba 3810M 48G PoE+ 1-slot Switch (JL074A)

1 Aruba X372 54VDC 1050W Power Supply (JL087A)

1 Aruba 3810M 4SFP+ Module (JL083A) 1 Aruba 3810 Switch Fan Tray (JL088A)

I/O ports and slots 48 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+); Duplex: 10BASE-T/100BASE-TX:

half or full; 1000BASE-T: full only; Ports 1 - 48 support MACSec

1 open module slot

Supports a maximum of 4 SFP+ ports or 2 40GbE ports, with optional module

Additional ports and slots 1 stacking module slot

1 RJ-45 serial console port

1 RJ-45 out-of-band management port 1 dual-personality (RJ-45 or USB micro-B)

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray includes: 1 x JL088A 1 fan tray slot

Switch ships with 1 JL088A fan tray installed. Spares ordered separately.

Physical characteristics Dimensions 17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)

Weight 13.62 lb (6.18 kg)

Memory and processor P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card

Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal

Mounting and enclosure Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface

mounting only

Performance IPv6 Ready Certified

1000 Mb Latency < $2.8 \mu s$ (FIFO 64-byte packets) **10 Gbps Latency** < $1.8 \mu s$ (FIFO 64-byte packets)

Technical Specifications

40 Gbps Latency $< 1.5 \mu s$ (FIFO 64-byte packets)

Throughput up to 190.5 Mpps (64-byte packets) 320 Gbps

Routing/Switching

capacity

Switch fabric speed 338 Gbps

Routing table size 10000 entries (IPv4), 5000 entries (IPv6)

MAC address table size 64000 entries

32°F to 113°F (0°C to 45°C) **Environment** Operating temperature

Operating relative

humidity

15% to 95% @ 104°F (40°C), noncondensing

15% to 90% @ 149°F (65°C), noncondensing

Nonoperating/Storage -40°F to 158°F (-40°C to 70°C)

temperature

relative humidity

Nonoperating/Storage

Altitude up to 10,000 ft (3 km)

Acoustic Power: 47 dB, Pressure: 29.4 dB **Primary Airflow** Front-to-side and front-to-rear

Direction

Technical Specifications

Electrical Characteristics Frequency 50/60Hz

> Voltage JL085A PSU: 100-127/200-240 VAC

Current JL085A PSU (Each): 1A/0.5A

Max/Idle Power Rating

(Switch+ 1 PSU)

70W/55W

Second PSU Power

Adder

10W

Max/Idle Uplink Power

Adder

JL079A: 7W/3W JL081A: 4W/3W JL083A: 11W/4W

JL078A: 4W/3W

Maximum Heat 310.31

Dissipation *(Max Case)

PoE Power (Max

Possible) Notes

N/A

Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst case theoretical maximum numbers provide for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports

plugged in, and all modules populated. This is a modular product.

*Switch + 2 power supplies + one JL083A Uplink. For most accurate heat dissipation, idle and max power for any combination of chassis and

accessories, please consult configurator.

Safety EN 60950/IEC 60950; UL 60950; UL 60950-1; CAN/CSA 22.2 No. 60950; EN 60825; CSA 22.2 60950-

1; EN62479:2010; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1, Ed. 2; IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013; IEC 60825:2007; EN60850-1:2007 / IEC 60825-1:

2007 Class 1 Class 1 Laser Products / Laser Klasse 1; UL 62368-1 Ed.2

Emissions FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A; EN 60950-1:2006 +A11:2009 +A1:2010

+A12:2011+A2:2013

Generic **Immunity** EN55022: 2010

> EN EN55024: 2010 **ESD** IEC 61000-4-2

Radiated IEC 61000-4-3; 3 V/m

EFT/Burst IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)

IEC 61000-4-5; 1 kV/2 kV AC Surge

Conducted IEC 61000-4-6: 3 V

Power frequency magnetic field

IEC 61000-4-8; 1 A/m, 50 or 60 Hz

Voltage dips and

IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods

interruptions

Harmonics EN61000-3-2:2006 +A1:2009 +A2:2009 Class A

Flicker EN61000-3-3:2008

Technical Specifications

Management Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface;

Web browser; Configuration menu; Out-of-band management (RJ-45 Ethernet); In-line and out-of-band;

Out-of-band management (serial RS-232c or micro usb)

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 3810M 24SFP+ 250W Switch (JL430A)

Included accessories 1 Aruba 3810M 16SFP+ 2-slot Switch (JL075A)

1 Aruba X371 12VDC 250W Power Supply (JL085A)

2 Aruba 3810M 4SFP+ Module (JL083A) 1 Aruba 3810 Switch Fan Tray (JL088A)

I/O ports and slots 16 SFP+ fixed 1000/10000 SFP+ ports; Duplex: 100BASE-TX: half or full; 1000BASE-T: full only; Ports

1 - 16 support MACSec2 open module slots

Supports a maximum of 8 SFP+ ports or 2 40GbE ports, with optional module

Additional ports and slots 1 stacking module slot

1 RJ-45 serial console port

1 RJ-45 out-of-band management port 1 dual-personality (RJ-45 or USB micro-B)

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray includes: 1 x JL088A

1 fan tray slot

Switch ships with 1 JL088A fan tray installed. Spares ordered separately.

Physical characteristics Dimensions 17.42(w) x 16.98(d) x 1.73(h) in (44.25 x 43.13 x 4.39 cm) (1U height)

Weight 13.28 lb (6.02 kg)

Memory and processor P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card

Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal

Mounting and enclosure Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface

mounting only

Performance IPv6 Ready Certified

 $\begin{array}{ll} \textbf{1000 Mb Latency} & < 2.8 \ \mu \text{s} \ (\text{FIFO 64-byte packets}) \\ \textbf{10 Gbps Latency} & < 1.8 \ \mu \text{s} \ (\text{FIFO 64-byte packets}) \\ \textbf{40 Gbps Latency} & < 1.5 \ \mu \text{s} \ (\text{FIFO 64-byte packets}) \\ \textbf{Throughput} & \text{up to 285.7 Mpps (64-byte packets)} \\ \end{array}$

Routing/Switching

capacity

480 Gbps

Switch fabric speed 508 Gbps

Routing table size 10000 entries (IPv4), 5000 entries (IPv6)

MAC address table size 64000 entries

Technical Specifications

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

Operating relative

humidity

15% to 95% @ 104°F (40°C), noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

15% to 90% @ 149°F (65°C), noncondensing

Altitude up to 10,000 ft (3 km)

AcousticPower: 39 dB, Pressure: 22.3 dBPrimary AirflowFront-to-side and front-to-rear

Direction

From-10-side and from-10-10

Electrical Characteristics Frequency 50/60Hz

Voltage JL085A PSU: 100-127/200-240 VAC

Current JL085A PSU (Each): 1A/0.5A

Max/Idle Power Rating

(Switch+ 1 PSU)

142W/103W

Second PSU Power

Adder

10W

Max/Idle Uplink Power

Adder

JL078A: 4W/3W JL079A: 7W/3W JL081A: 4W/3W

JL083A: 11W/4W

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Dissipation *(Max Case)

PoE Power (Max

Possible)

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310.31

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+A12:2011+A2:2013

Technical Specifications

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EN EN55024: 2010 **ESD** IEC 61000-4-2

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Standards and protocols (applies to all products in series) 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 4724 Graceful Restart Mechanism for BGP

RFC 5492 Capabilities Advertisement with BGP-4

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

Technical Specifications

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 5798 VRRP (exclude Accept Mode and sub-sec timer)

RFC 5880 Bidirectional Forwarding Detection

RFC 5905 Network Time Protocol Version 4: Protocol and Algorithms Specification

UDLD (Uni-directional Link Detection)

IP Multicast

RFC 3376 IGMPv3

RFC 3973 PIM Dense Mode

RFC 4601 PIM Sparse Mode

Technical Specifications

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 only)

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

draft-ietf-savi-mix

Technical Specifications

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 4836 Managed Objects for 802.3 Medium Attachment Units (MAU)

RFC 7331 BFD MIB

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

OSPF

RFC 2328 OSPFv2

RFC 3101 OSPF NSSA

RFC 3623 Graceful OSPF Restart (Unplanned Outages only)

RFC 5340 OSPFv3 for IPv6

Technical Specifications

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)

Security

IEEE 802.1X Port Based Network Access Control

RFC 1321 The MD5 Message-Digest Algorithm

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)

Secure Sockets Layer (SSL)

SSHv2 Secure Shell

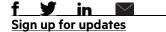
Accessories

Aruba 3810M Switch Series accessories

Aruba 3810M Switch Series accessories	
Modules	
Aruba 3810M 4-port Stacking Module	JL084A
Aruba 3810M/2930M 4-port 100M/1G/10G SFP+ MACsec Module	JL083A
Aruba 3810M/2930M 1-port QSFP+ 40GbE Module	JL078A
Aruba 3810M 2QSFP+ 40GbE Module	JL079A
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
Cables	
Aruba X2C2 RJ45 to DB9 Console Cable	JL448A
Aruba 3800/3810M 0.5m Stacking Cable	J9578A
Aruba 3800/3810M 1m Stacking Cable	J9665A
Aruba 3800/3810M 3m Stacking Cable	J9579A
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
Power Supply	
Aruba X371 12VDC 250W 100-240VAC Power Supply	JL085A
Aruba X372 54VDC 680W 100-240VAC Power Supply	JL086A
Aruba X372 54VDC 1050W 110-240VAC Power Supply	JL087A
Fan Tray	
Aruba 3810 Switch Fan Tray	JL088A
Mounting Kit	
HPE X410 1U Universal 4-post Rackmount Kit	J9583A
·	

Summary of Changes

Date	Version History	Action	Description of Change
04-Mar-2019	Version 19	Changed	SKU J9151D was replaced with J9151E
			CTO models were removed.
			Obsolete SKUs were removed.
03-Dec-2018	Version 18	Changed	Software feature update: Key features, Product overview and Enhanced
			Capabilities updated
02-Jul-2018	Version 17	Changed	Software feature update
07-May-2018	Version 16	Added	Edits made on Configuration section and Technical Specifications
05-Mar-2018	Version 15	Changed	Configuration section updated.
05-Feb-2018	Version 14	Changed	Configuration section updated.
			Document name updated to match Product Master.
08-Jan-2018	Version 13	Changed	Software feature update
07-Aug-2017	Version 12	Added	SKU added: JL308A
03-Jul-2017	Version 11	Added	SKU added: JL448A
08-May-2017	Version 10	Changed	Configuration section updated
03-Apr-2017	Version 9	Changed	Modules updated on Configuration section
17-Feb-2017	Version 8	Changed	Configuration section updated (Adding #B2B, #B2C, and #B2E Options
			on SKUs JL428A; JL429A and JL430A)
09-Jan-2017	Version 7	Added	Models added: JL428A, JL429A, JL430A
07-Nov-2016	Version 6	Changed	Product overview, Features and Benefits updated
19-Aug-2016	Version 5	Changed	Configuration section updated. Minor changes made on Technical
			Specifications.
06-June-2016	Version 4	Changed	Features and Benefits, Standards and Protocols, Accessories updated.
			SKU descriptions updated.
18-Mar-2016	Version 3	Changed	Minor edits on Features and Benefits, Switch family photo added.
11-Dec-2015	Version 2	Changed	Standards and protocols and Configuration Menu updated
01-Dec-2015	Version 1	Created	Document creation





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