

Overview

Aruba 2930F Switch Series

The Aruba 2930F Switch Series is designed for customers creating smart digital workplaces that are optimized for mobile users with an integrated wired and wireless approach. These convenient Layer 3 network switches include built-in uplinks and power so are simple to deploy and manage with advanced security and network management tools like Aruba ClearPass Policy Manager, Aruba AirWave and cloud-based Aruba Central.

A powerful Aruba ProVision ASIC delivers performance, robust feature support and value with programmability for the latest applications. Stacking with Virtual Switching Framework (VSF) provides simplicity and scalability. The 2930F supports built-in 1GbE or 10GbE uplinks, PoE+, Access OSPF routing, Dynamic Segmentation, robust QoS, RIP routing, and IPv6 with no software licensing required.

The Aruba 2930F Switch Series provides a convenient and cost-effective access switch solution that can be quickly set up with Zero Touch Provisioning. The robust basic Layer 3 feature set includes a limited lifetime warranty.



Aruba 2930F Switch Series

Models

Aruba 2930F 24G 4SFP+ Switch	JL253A
Aruba 2930F 48G 4SFP+ Switch	JL254A
Aruba 2930F 24G PoE+ 4SFP+ Switch	JL255A
Aruba 2930F 48G PoE+ 4SFP+ Switch	JL256A
Aruba 2930F 8G PoE+ 2SFP+ Switch	JL258A
Aruba 2930F 24G 4SFP Switch	JL259A
Aruba 2930F 48G 4SFP Switch	JL260A
Aruba 2930F 24G PoE+ 4SFP Switch	JL261A
Aruba 2930F 48G PoE+ 4SFP Switch	JL262A
Aruba 2930F 24G PoE+ 4SFP+ TAA-compliant Switch	JL263A
Aruba 2930F 48G PoE+ 4SFP+ TAA-compliant Switch	JL264A
Aruba 2930F 48G PoE+ 4SFP 740W Switch	JL557A
Aruba 2930F 48G PoE+ 4SFP+ 740W Switch	JL558A
Aruba 2930F 48G PoE+ 4SFP+ 740W TAA-compliant Switch	JL559A

Overview

Key features

- Aruba Layer 3 switch series with VSF stacking, static, RIP and Access OSPF Routing, dynamic segmentation, ACLs, and robust QoS
- Supports cloud and on-premises management. And advanced policy management using Aruba ClearPass
- Convenient built-in 1GbE or 10GbE uplinks and up to 740 W PoE+
- Software-defined ready with REST APIs and OpenFlow support
- Simple deployment with Zero Touch Provisioning

Enhanced Capabilities

Unified Wired and Wireless Support

- **Supports unified wired and wireless policies**
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**
allows ClearPass to do accounting for clients with static IP address

Software-defined networks

- **REST APIs and OpenFlow**
Supports multiple programmatic interfaces, including REST APIs and Openflow 1.0 and 1.3, to enable automation of network operations, monitoring, and troubleshooting.

Quality of Service (QoS)

- **Traffic prioritization (IEEE 802.1p)**
for classification into eight priority levels mapped to eight queues
- **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
- **Rate limiting**
sets per-port ingress enforced maximums and per-port, per-queue minimums
- **Large buffers**
provide graceful congestion management
- **Unknown Unicast Rate Limiting**
throttles unicast packets with unknown destination addresses and limits flooding on the VLAN

Connectivity

- **Convenient built-in 10 Gbps Ethernet (4 x SFP+) uplinks**
available on select models
- **Auto-MDIX**
provides automatic adjustments for straight-through or crossover cables on all 10/100 and 10/100/1000 ports
- **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

Standard Features

Standard Features

- **IPv6**
 - **IPv6 host**
enables switches to be managed in an IPv6 network
 - **Dual stack (IPv4 and IPv6)**
transitions from 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 network traffic
 - **IPv6 routing**
supports static and RIPng protocols
 - **Security**
provides RA guard, DHCPv6 protection, dynamic IPv6 lockdown, and ND snooping

Performance and efficiency

- **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
- **Designed with the latest Aruba Provision ASIC**
providing very low latency, increased packet buffering, and adaptive power consumption
- **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
- **-Stacking topology**
 - Virtual Switching Framework (VSF) front plane stacking creates one virtual resilient switch from up to eight* switches
 - Ring topology supports up to an 8-member stack
 - Virtualized switching provides simplified management as the switches act as a single chassis when stacked

¹Requires ArubaOS-Switch 16.06 software.

Convergence

- **IP multicast snooping and data-driven IGMP**
automatically prevent 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
- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP)**
facilitates easy mapping using network management applications with LLDP automated device discovery protocol
- **PoE and PoE+ allocations**
support multiple methods (automatic, IEEE 802.3at dynamic, LLDP-MED fine grain, IEEE 802.3af device class, or user-specified) to allocate and manage PoE/PoE+ power for more efficient energy savings
- **Local MAC Authentication**
assigns attributes such as VLAN and QoS using locally configured profile that can be a list of MAC prefixes
- **IP multicast routing**
includes PIM Sparse and Dense modes to route IP multicast traffic (limited to 16 interfaces)
- **Protocol Independent Multicast for IPv6**
supports one-to-many and many-to-many media casting use cases such as IPTV over IPv6 networks

Standard Features

Resiliency and high availability

- **IEEE 802.1s Multiple Spanning Tree**
provides high link availability by allowing multiple spanning trees; provides legacy support for IEEE 802.1d and IEEE 802.1w
- **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 (limited to 128 VRs)
- **IEEE 802.3ad link-aggregation-control protocol (LACP) and port trunking**
support up to 60 static or dynamic trunks with each trunk having up to eight links (ports) per static trunk
- **SmartLink**
provides easy-to-configure link redundancy of active and standby links
- **SNMPv1, v2, and v3**
provide complete support of SNMP; provide full support of industry-standard Management Information Base (MIB) plus private extensions; SNMPv3 supports increased security using encryption

Simplified configuration and management

- **Aruba Central support**
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 or a DHCP-based process with AirWave and Central Network Management
- **Built-in programmable and easy to use REST API interface**
provides configuration automation for campus networks
- **Flexible management with same hardware**
supports both cloud-based Central and on-premises AirWave with the same hardware, ensuring management platform changes without ripping and replacing switching infrastructure
- **Out-of-band Ethernet management port**
enables management on a separate physical management network, and keeps management traffic segmented from network data traffic

Manageability

- **Dual flash images**
provides independent primary and secondary operating system files for backup while upgrading
- **Friendly port names**
allow assignment of descriptive names to ports
- **Find-Fix-Inform feature**
finds and fixes common network problems automatically, then informs administrator
- **Supports multiple configuration files**
stored to a flash image
- **RMON, XRMON, and sFlow**
provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **Troubleshooting**
ingress and egress port monitoring enable more efficient network problem solving
- **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

Standard Features

Layer 2 switching

- **VLAN Support and Tagging**
supports IEEE 802.1Q (4094 VLAN IDs) and 2K VLANs simultaneously
- **Jumbo packet support**
improves the performance of large data transfers; supports frame size of up to 9220 bytes
- **IEEE 802.1v protocol VLANs**
isolate select non-IPv4 protocols automatically into their own 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+
- **GVRP and MVRP**
allows automatic learning and dynamic assignment of VLANs
- **VxLAN**
encapsulation (tunneling) protocol for overlay network that enables a more scalable virtual network deployment

Layer 3 services

- **DHCP server**
centralizes and reduces the cost of IPv4 address management

Layer 3 routing

- **Static IP routing**
provides manually configured routing; includes ECMP capability
- **256 static and 10,000 RIP routes**
facilitate segregation of user data, without adding external hardware
- **Routing Information Protocol (RIP)**
provides RIPv1, RIPv2, and RIPv3 routing
- **Access OSPF**
provides OSPFv2 and OSPFv3 protocols for routing between access and the next layer on the LAN. Only one OSPF area and up to 8 interfaces are supported
- **Policy-based routing**
uses a classifier to select traffic that can be forwarded based on policy set by the network administrator (limited to 16 next-hop routes)

Security

- **Control Plane Policing set rate limit on control protocols to protect CPU overload from DOS attacks**
- **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
 - supports Web-based authentication
 - supports MAC-based authentication
- **Authentication flexibility**
 - **Multiple IEEE 802.1X users per port**
provides authentication of multiple devices on a single port; prevents a user from "piggybacking" on another user's IEEE 802.1X authentication
 - **Concurrent IEEE 802.1X, Web, and MAC authentication schemes per port**
switch port will accept up to 32 sessions of IEEE 802.1X, Web, and MAC authentications
- **TPM-based Security**
includes a Trusted Platform Module (TPM) for secure hardware-based generation and storage of cryptographic keys that can be used for a variety of authentication purposes
- **Access control lists (ACLs)**
provide IP Layer 3 filtering based on source/destination IP address/subnet and source/destination TCP/UDP port number
- **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

Standard Features

- **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
- **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
- **Custom banner**
displays security policy when users log in to the switch
- **STP BPDU port protection**
blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
- **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
- **Identity-driven ACL**
enables implementation of a highly granular and flexible access security policy and VLAN assignment specific to each authenticated network user
- **Per-port broadcast throttling**
Configures broadcast control selectively on heavy traffic port uplinks
- **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
- **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

Monitor and diagnostics

- **Digital optical monitoring of SFP+ and 1000BASE-T transceivers**
allows detailed monitoring of the transceiver settings and parameters

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 2930F 24G 4SFP+ Switch	JL253A
<ul style="list-style-type: none"> • 24 RJ-45 autosensing 10/100/1000 ports • 4 SFP/SFP+ 1G/10G ports • min=0 \ \ max=4 SFP/SFP+ Transceivers • 1U - Height 	See Configuration RULE: 1, 2, 3
PDU Cable NA/MEX/TW/JP	JL253A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL253A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL253A#B2E
<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
Aruba 2930F 48G 4SFP+ Switch	JL254A
<ul style="list-style-type: none"> • 48 RJ-45 autosensing 10/100/1000 ports • 4 SFP/SFP+ 1G/10G ports • min=0 \ \ max=4 SFP/SFP+ Transceivers • 1U - Height 	See Configuration RULE: 1, 2, 3
PDU Cable NA/MEX/TW/JP	JL254A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL254A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL254A#B2E
<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
Aruba 2930F 24G PoE+ 4SFP+ Switch	JL255A
<ul style="list-style-type: none"> • 24 RJ-45 PoE+ autosensing 10/100/1000 ports • 4 SFP/SFP+ 1G/10G ports • min=0 \ \ max=4 SFP/SFP+ Transceivers • 1U - Height 	See Configuration RULE: 1, 2, 3
PDU Cable NA/MEX/TW/JP	JL255A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL255A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL255A#B2E
<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	

Configuration Information

Aruba 2930F 48G PoE+ 4SFP+ Switch	JL256A
<ul style="list-style-type: none"> • 48 RJ-45 PoE+ autosensing 10/100/1000 ports • 4 SFP/SFP+ 1G/10G ports • min=0 \ \ max=4 SFP/SFP+ Transceivers • 1U - Height 	See Configuration RULE: 1, 2, 3
PDU Cable NA/MEX/TW/JP	JL256A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL256A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL256A#B2E
<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
Aruba 2930F 8G PoE+ 2SFP+ Switch	JL258A
<ul style="list-style-type: none"> • 8 RJ-45 PoE+ autosensing 10/100/1000 ports • 2 SFP/SFP+ 1G/10G ports • min=0 \ \ max=2 SFP/SFP+ Transceivers • 1U - Height 	See Configuration RULE: 1, 2, 3
PDU Cable NA/MEX/TW/JP	JL258A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL258A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL258A#B2E
<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
Aruba 2930F 24G 4SFP Switch	JL259A
<ul style="list-style-type: none"> • 24 RJ-45 autosensing 10/100/1000 ports • 4 SFP 1G ports • min=0 \ \ max=4 SFP Transceivers • 1U - Height 	See Configuration RULE: 1, 3
PDU Cable NA/MEX/TW/JP	JL259A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL259A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL259A#B2E
<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	

Configuration Information

Aruba 2930F 48G PoE+ 4SFP 740W Switch	JL557A
<ul style="list-style-type: none"> • 48 RJ-45 autosensing 10/100/1000 ports • 4 SFP 1G ports • min=0 \ \ max=4 SFP Transceivers • 1U - Height 	See Configuration RULE: 1, 3
PDU Cable NA/MEX/TW/JP	JL557A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL557A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL557A#B2E
<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
No Power Cord	JL557A#AC3
<ul style="list-style-type: none"> • No Localized Power Cord Selected 	
Aruba 2930F 48G 4SFP Switch	JL260A
<ul style="list-style-type: none"> • 48 RJ-45 autosensing 10/100/1000 ports • 4 SFP 1G ports • min=0 \ \ max=4 SFP Transceivers • 1U - Height 	See Configuration RULE: 1, 3
PDU Cable NA/MEX/TW/JP	JL260A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL260A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL260A#B2E
<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
Aruba 2930F 24G PoE+ 4SFP Switch	JL261A
<ul style="list-style-type: none"> • 24 RJ-45 PoE+ autosensing 10/100/1000 ports • 4 SFP 1G ports • min=0 \ \ max=4 SFP Transceivers • 1U - Height 	See Configuration RULE: 1, 3
PDU Cable NA/MEX/TW/JP	JL261A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL261A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	

Configuration Information

High Volt Switch to Wall Power Cord	JL261A#B2E
<ul style="list-style-type: none"> HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
Aruba 2930F 48G PoE+ 4SFP+ 740W Switch	JL558A
<ul style="list-style-type: none"> 48 RJ-45 PoE+ autosensing 10/100/1000 ports 4 SFP 1G ports min=0 \ \ max=4 SFP Transceivers 1U - Height 	See Configuration RULE: 1, 3
PDU Cable NA/MEX/TW/JP	JL558A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL558A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL558A#B2E
<ul style="list-style-type: none"> HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
No Power Cord	JL558A#AC3
<ul style="list-style-type: none"> No Localized Power Cord Selected 	
Aruba 2930F 48G PoE+ 4SFP Switch	JL262A
<ul style="list-style-type: none"> 48 RJ-45 PoE+ autosensing 10/100/1000 ports 4 SFP 1G ports min=0 \ \ max=4 SFP Transceivers 1U - Height 	See Configuration RULE: 1, 3
PDU Cable NA/MEX/TW/JP	JL262A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL262A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL262A#B2E
<ul style="list-style-type: none"> HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	

TAA Compliant Chassis

Aruba 2930F 24G PoE+ 4SFP+ TAA-compliant Switch	JL263A
<ul style="list-style-type: none"> 24 RJ-45 PoE+ autosensing 10/100/1000 ports 4 SFP/SFP+ 1G/10G ports min=0 \ \ max=4 SFP/SFP+ Transceivers 1U - Height 	See Configuration RULE: 1, 2, 3, 4
PDU Cable NA/MEX/TW/JP	JL263A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	

Configuration Information

PDU Cable ROW	JL263A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL263A#B2E
<ul style="list-style-type: none"> HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
Aruba 2930F 48G PoE+ 4SFP+ 740W TAA-compliant Switch	JL559A
<ul style="list-style-type: none"> 48 RJ-45 PoE+ autosensing 10/100/1000 ports 4 SFP/SFP+ 1G/10G ports min=0 \ \ max=4 SFP/SFP+ Transceivers 1U - Height 	See Configuration RULE: 1, 2, 3, 4
PDU Cable NA/MEX/TW/JP	JL559A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL559A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL559A#B2E
<ul style="list-style-type: none"> HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
No Power Cord	JL559A#AC3
<ul style="list-style-type: none"> No Localized Power Cord Selected 	
Aruba 2930F 48G PoE+ 4SFP+ TAA-compliant Switch	JL264A
<ul style="list-style-type: none"> 48 RJ-45 PoE+ autosensing 10/100/1000 ports 4 SFP/SFP+ 1G/10G ports min=0 \ \ max=4 SFP/SFP+ Transceivers 1U - Height 	See Configuration RULE: 1, 2, 3, 4
PDU Cable NA/MEX/TW/JP	JL264A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL264A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL264A#B2E
<ul style="list-style-type: none"> HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	

Configuration Rules:

RULE 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

Configuration Information

RULE 2	The following Transceivers install into this Switch:	
	Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9150D
	Aruba 10G SFP+ LC LR 10km SMF Transceiver	J9151E
	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

RULE 3 Localization required on orders without #B2B, #B2C or #B2E options.

RULE 4 TAA Switch Chassis are available in the US, UK, Israel, Vietnam, South Korea, India and Taiwan only.

NOTE:: 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)
 #AC3 - No Power Cord

Rack Level Integration CTO Models

Aruba 2930F 24G 4SFP+ Switch	JL253A
<ul style="list-style-type: none"> 24 RJ-45 autosensing 10/100/1000 ports 4 SFP/SFP+ 1G/10G ports min=0 \ max=4 SFP/SFP+ Transceivers 1U - Height 	See Configuration RULE: 1, 2, 3, 4, 5
PDU Cable NA/MEX/TW/JP	JL253A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL253A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL253A#B2E
<ul style="list-style-type: none"> HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
Aruba 2930F 48G 4SFP+ Switch	JL254A
<ul style="list-style-type: none"> 48 RJ-45 autosensing 10/100/1000 ports 4 SFP/SFP+ 1G/10G ports min=0 \ max=4 SFP/SFP+ Transceivers 1U - Height 	See Configuration RULE: 1, 2, 3, 4, 5
PDU Cable NA/MEX/TW/JP	JL254A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL254A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	

Configuration Information

High Volt Switch to Wall Power Cord	JL254A#B2E
<ul style="list-style-type: none"> HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
Aruba 2930F 24G PoE+ 4SFP+ Switch	JL255A
<ul style="list-style-type: none"> 24 RJ-45 PoE+ autosensing 10/100/1000 ports 4 SFP/SFP+ 1G/10G ports min=0 \ \ max=4 SFP/SFP+ Transceivers 1U - Height 	See Configuration RULE: 1, 2, 3, 4, 5
PDU Cable NA/MEX/TW/JP	JL255A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL255A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL255A#B2E
<ul style="list-style-type: none"> HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
Aruba 2930F 48G PoE+ 4SFP+ Switch	JL256A
<ul style="list-style-type: none"> 48 RJ-45 PoE+ autosensing 10/100/1000 ports 4 SFP/SFP+ 1G/10G ports min=0 \ \ max=4 SFP/SFP+ Transceivers 1U - Height 	See Configuration RULE: 1, 2, 3, 4, 5
PDU Cable NA/MEX/TW/JP	JL256A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL256A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL256A#B2E
<ul style="list-style-type: none"> HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
Aruba 2930F 24G 4SFP Switch	JL259A
<ul style="list-style-type: none"> 24 RJ-45 autosensing 10/100/1000 ports 4 SFP 1G ports min=0 \ \ max=4 SFP Transceivers 1U - Height 	See Configuration RULE: 1, 3, 4, 5
PDU Cable NA/MEX/TW/JP	JL259A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL259A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL259A#B2E
<ul style="list-style-type: none"> HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	

Configuration Information

Aruba 2930F 48G PoE+ 4SFP 740W Switch	JL557A
<ul style="list-style-type: none"> • 48 RJ-45 autosensing 10/100/1000 ports • 4 SFP 1G ports • min=0 \ \ max=4 SFP Transceivers • 1U - Height 	See Configuration RULE: 1, 3
PDU Cable NA/MEX/TW/JP	JL557A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL557A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL557A#B2E
<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
No Power Cord	JL557A#AC3
<ul style="list-style-type: none"> • No Localized Power Cord Selected 	
Aruba 2930F 48G 4SFP Switch	JL260A
<ul style="list-style-type: none"> • 48 RJ-45 autosensing 10/100/1000 ports • 4 SFP 1G ports • min=0 \ \ max=4 SFP Transceivers • 1U - Height 	See Configuration RULE: 1, 3, 4, 5
PDU Cable NA/MEX/TW/JP	JL260A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL260A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL260A#B2E
<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
Aruba 2930F 24G PoE+ 4SFP Switch	JL261A
<ul style="list-style-type: none"> • 24 RJ-45 PoE+ autosensing 10/100/1000 ports • 4 SFP 1G ports • min=0 \ \ max=4 SFP Transceivers • 1U - Height 	See Configuration RULE: 1, 3, 4, 5
PDU Cable NA/MEX/TW/JP	JL261A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL261A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL261A#B2E
<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	

Configuration Information

Aruba 2930F 48G PoE+ 4SFP+ 740W Switch	JL558A
<ul style="list-style-type: none"> • 48 RJ-45 PoE+ autosensing 10/100/1000 ports • 4 SFP 1G ports • min=0 \ \ max=4 SFP Transceivers • 1U - Height 	See Configuration RULE: 1, 3
PDU Cable NA/MEX/TW/JP	JL558A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL558A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL558A#B2E
<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
No Power Cord	JL558A#AC3
<ul style="list-style-type: none"> • No Localized Power Cord Selected 	
Aruba 2930F 48G PoE+ 4SFP Switch	JL262A
<ul style="list-style-type: none"> • 48 RJ-45 PoE+ autosensing 10/100/1000 ports • 4 SFP 1G ports • min=0 \ \ max=4 SFP Transceivers • 1U - Height 	See Configuration RULE: 1, 3, 4, 5
PDU Cable NA/MEX/TW/JP	JL262A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL262A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL262A#B2E
<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
TAA Compliant Chassis	
Aruba 2930F 24G PoE+ 4SFP+ TAA-compliant Switch	JL263A
<ul style="list-style-type: none"> • 24 RJ-45 PoE+ autosensing 10/100/1000 ports • 4 SFP/SFP+ 1G/10G ports • min=0 \ \ max=4 SFP/SFP+ Transceivers • 1U - Height 	See Configuration RULE: 1, 2, 3, 4, 5, 6
PDU Cable NA/MEX/TW/JP	JL263A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL263A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL263A#B2E

Configuration Information

<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
Aruba 2930F 48G PoE+ 4SFP+ 740W TAA-compliant Switch	JL559A
<ul style="list-style-type: none"> • 48 RJ-45 PoE+ autosensing 10/100/1000 ports • 4 SFP/SFP+ 1G/10G ports • min=0 \ \ max=4 SFP/SFP+ Transceivers • 1U - Height 	See Configuration RULE: 1, 2, 3, 4, 5, 6
PDU Cable NA/MEX/TW/JP	JL559A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL559A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL559A#B2E
<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
No Power Cord	JL559A#AC3
<ul style="list-style-type: none"> • No Localized Power Cord Selected 	
Aruba 2930F 48G PoE+ 4SFP+ TAA-compliant Switch	JL264A
<ul style="list-style-type: none"> • 48 RJ-45 PoE+ autosensing 10/100/1000 ports • 4 SFP/SFP+ 1G/10G ports • min=0 \ \ max=4 SFP/SFP+ Transceivers • 1U - Height 	See Configuration RULE: 1, 2, 3, 4, 5, 6
PDU Cable NA/MEX/TW/JP	JL264A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JL264A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JL264A#B2E
<ul style="list-style-type: none"> • HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	

Configuration Rules:

RULE 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

Configuration Information

RULE 2	The following Transceivers install into this Switch:	
	Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9150D
	Aruba 10G SFP+ LC LR 10km SMF Transceiver	J9151E
	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
RULE 3	If this switch is factory installed in HPE Racks, Then the J9583A#OD1 is required. CLIC Only - Allow the J9583AZ in all regions.	
RULE 4	Localization required on orders without #B2B, #B2C, #B2E options.	
RULE 5	If this Switch Chassis is selected for Rack Level Integration, Then the Switch Chassis needs to integrate (with #OD1) to the HPE Rack.	
RULE 6	TAA Switch Chassis are available in the US, UK, Israel, Vietnam, South Korea, India and Taiwan only.	
NOTES	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) #AC3 - No Power Cord	

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

Transceivers

SFP Transceivers

HPE X111 100M SFP LC FX Transceiver	J9054C
Aruba 100M SFP LC FX 2km MMF Transceiver	J9054D
HPE X121 1G SFP LC LH Transceiver	J4860C
HPE X121 1G SFP LC LX Transceiver	J4859C
HPE X121 1G SFP LC SX Transceiver	J4858C
HPE X121 1G SFP RJ45 T Transceiver	J8177C
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

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
Aruba 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9150D
Aruba 10G SFP+ LC LR 10km SMF Transceiver	J9151E
Aruba 10G SFP+ LC ER 40km SMF Transceiver	J9153D
Aruba 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281D
Aruba 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283D

Configuration Information

HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B

Cables

Console Cables

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

Aruba X2C2 RJ45 to DB9 Console Cable	JL448A
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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

Mounting Kit

(std 0 // max 1) User Selection (min 0 // max 1) per switch

HPE X410 1U Universal 4-post Rackmount Kit	J9583A
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See Configuration
RULE: 1, 2

Configuration Rules:

- RULE 1** If this Mounting Kit is order with #OD1 then it integrates to the HPE Universal Rack. (not the switch)
- RULE 2** This Rack Mount Kit is not compatible with JL258A

Accessories

For JL258A System (std 0 // max 1) User Selection (min 0 // max 1) per switch

Aruba 2930F 8-port Cable Guard	JL311A
Aruba 2930F 8-port Power Shelf	JL312A

Additional Options

Aruba 2930F Switch Series accessories

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 ER 40km SMF Transceiver	J9153D
Aruba 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281D
Aruba 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283D

NOTE: no support for J9152D 10G LRM, nor J9285D 10G 7m DAC

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

Aruba 2930F 24G 4SFP+ Switch (JL253A)

HPE X410 1U Universal 4-post Rackmount Kit	J9583A
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Aruba 2930F 48G 4SFP+ Switch (JL254A)

HPE X410 1U Universal 4-post Rackmount Kit	J9583A
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Aruba 2930F 24G PoE+ 4SFP+ Switch (JL255A)

HPE X410 1U Universal 4-post Rackmount Kit	J9583A
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Aruba 2930F 48G PoE+ 4SFP+ Switch (JL256A)

HPE X410 1U Universal 4-post Rackmount Kit	J9583A
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Additional Options

Aruba 2930F 8G PoE+ 2SFP+ Switch (JL258A)

Aruba 2930F 8-port Cable Guard

JL311A

Aruba 2930F 8-port Power Shelf

JL312A

Aruba 2930F 24G 4SFP Switch (JL259A)

HPE X410 1U Universal 4-post Rackmount Kit

J9583A

Aruba 2930F 48G 4SFP Switch (JL260A)

HPE X410 1U Universal 4-post Rackmount Kit

J9583A

Aruba 2930F 24G PoE+ 4SFP Switch (JL261A)

HPE X410 1U Universal 4-post Rackmount Kit

J9583A

Aruba 2930F 48G PoE+ 4SFP Switch (JL262A)

HPE X410 1U Universal 4-post Rackmount Kit

J9583A

Aruba 2930F 24G PoE+ 4SFP+ TAA-compliant Switch (JL263A)

HPE X410 1U Universal 4-post Rackmount Kit

J9583A

Aruba 2930F 48G PoE+ 4SFP+ TAA-compliant Switch (JL264A)

HPE X410 1U Universal 4-post Rackmount Kit

J9583A

Aruba 2930F 48G PoE+ 4SFP 740W Switch (JL557A)

HPE X410 1U Universal 4-post Rackmount Kit

J9583A

Aruba 2930F 48G PoE+ 4SFP+ 740W Switch (JL558A)

HPE X410 1U Universal 4-post Rackmount Kit

J9583A

Aruba 2930F 48G PoE+ 4SFP+ 740W TAA-compliant Switch (JL559A)

HPE X410 1U Universal 4-post Rackmount Kit

J9583A

Additional Options

NOTE: Details are not available for all accessories. The following specifications were available at the time of publication.

<p>Aruba 2930F 8-port Cable Guard (JL311A) The Cable Guard secures cables that are connected to the switch and provides extra security against theft or tampering with the switch and its cables after it is installed</p>	<p>Product Type Mounting Kit</p> <p>Physical characteristics Dimensions: 1.42(w) x 4.33(d) x 0.69(h) in (3.6 x 11 x 1.75 cm) Weight: 1.28 lb (0.58 kg)</p> <p>Notes Dimensions: 10.94" x 3.62" x 1.69" or 27.8cm x 9.2cm x 4.3cm w/ears 10.94" x 1.69" x 1.69" or 27.8cm x 4.3cm x 4.3cm without ears Weight: 1.262 lbs or 57 kg (including faceplate, ears, and screws) 1.026 lbs or .47 kg (faceplate only)</p> <p>Warranty Limited Lifetime Warranty: See http://www.hpe.com/networking/warrantysummary for warranty and support information included with your product purchase.</p> <p>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.</p>
<p>Aruba 2930F 8-port Power Shelf (JL312A) An easy-to-use solution for attaching the external power adapter to any of the Aruba 2530 8-port switches.</p>	<p>Product Type Mounting Kit</p> <p>Physical characteristics Dimensions: 10.75(w) x 6(d) x 2(h) in (27.31 x 15.24 x 5.08 cm) Weight: 0.93 lb (0.42 kg)</p> <p>Overall Positioning Statement The Aruba 2930F 8-port Power Shelf provides an easy to use solution for attaching the external power adapter to the Aruba 2930F 8G 2SFP+ PoE+ Switch. The power adapter shelf can be quickly attached on the rear of the Aruba 2930F 8G PoE+ 2SFP+ Switch and the adapter fit into place. This power adapter shelf is designed for wall, table or rack deployments.</p> <p>Key Features</p> <ul style="list-style-type: none"> • Quickly attach external power adapter to 8 port switch • Designed for use with Aruba 2930F 8G PoE+ 2SFP+ Switch <p>Notes The Aruba 2930F 8-port Power Shelf is an accessory for the Aruba 2930F 8G PoE+ 2SFP+ Switch. The shelf mounts on the back of the switch providing a place to hold the external power adapter.</p> <p>Warranty Limited Lifetime Warranty: See http://www.hpe.com/networking/warrantysummary for warranty and support information included with your product purchase.</p> <p>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.</p>

Additional Options

<p>HPE X121 1G SFP LC SX Ports Transceiver (J4858C) A small form-factor pluggable (SFP) Gigabit SX transceiver that provides a full-duplex Gigabit solution up to 550 m on multimode fiber.</p>	<p>Physical characteristics 1 LC 1000BASE-SX port; Duplex: full only Dimensions: 2.24(d) x 0.54(w) x 0.48(h) in. (5.69 x 1.37 x 1.22 cm) Weight: 0.04 lb. (0.02 kg) Transceiver form factor: SFP</p> <p>Environment Operating temperature: 32°F to 158°F (0°C to 70°C) Operating relative humidity: 5% to 85%, noncondensing Nonoperating/Storage temperature: -40°F to 203°F (-40°C to 85°C) Altitude: up to 10,000 ft. (3 km)</p> <p>Electrical characteristics Power consumption typical: 0.4 W Power consumption maximum: 0.7 W</p> <p>Cabling Type: <ul style="list-style-type: none"> • 62.5/125 μm or 50/125 μm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively; Maximum distance: <ul style="list-style-type: none"> • 2-220 m (62.5 μm core diameter, 160 MHz*km bandwidth) • 2-275 m (62.5 μm core diameter, 200 MHz*km bandwidth) • 2-500 m (50 μm core diameter, 400 MHz*km bandwidth) • 2-550 m (50 μm core diameter, 500 MHz*km bandwidth) Cable length: 2-550m Fiber type: Multi Mode</p> <p>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.</p>
<p>HPE X121 1G SFP LC LX Ports Transceiver (J4859C) HPE X121 1G SFP LC LX Transceiver: An SFP format gigabit transceiver with LC connectors using LX technology.</p>	<p>Physical characteristics 1 LC 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX); Duplex: full only Dimensions: 2.24(d) x 0.54(w) x 0.486(h) in. (5.69 x 1.37 x 1.23 cm) Weight: 0.04 lb. (0.02 kg)</p> <p>Environment Operating temperature: 32°F to 158°F (0°C to 70°C) Operating relative humidity: 0% to 85%, noncondensing Nonoperating/Storage temperature: -40°F to 212°F (-40°C to 100°C) Altitude: up to 10,000 ft. (3 km)</p> <p>Cabling Type: <ul style="list-style-type: none"> • Either single mode or multimode; 62.5/125 μm or 50/125 μm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively; Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1; Maximum distance: <ul style="list-style-type: none"> • 2-550 m (multimode 62.5 μm core diameter, 500 MHz*km bandwidth) • 2-550 m (multimode 50 μm core diameter, 400 MHz*km bandwidth) • 2-550 m (multimode 50 μm core diameter, 500 MHz*km bandwidth) • 2-10,000 m (single-mode fiber) </p> <p>Notes A mode conditioning patch cord may be needed in some multimode fiber installations. Wavelength: 1310nm Power Consumption: < 500mW Typical</p> <p>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.</p>

Additional Options

<p>HPE X121 1G SFP LC LH Ports Transceiver (J4860C) A small form-factor pluggable (SFP) Gigabit LH transceiver that provides a full-duplex Gigabit solution up to 70 km on single-mode fiber.</p>	<p>Physical characteristics</p> <p>Environment</p> <p>Cabling</p>	<p>1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics); Duplex: full only Dimensions: 2.17(d) x 0.60(w) x 0.46(h) in. (5.5 x 1.53 x 1.18 cm) Weight: 0.04 lb. (0.02 kg)</p> <p>Operating temperature: -40°F to 185°F (-40°C to 85°C) Operating relative humidity: 0% to 95% @ 77°F (25°C), noncondensing Nonoperating/Storage temperature: -40°F to 185°F (-40°C to 85°C) Altitude: up to 10,000 ft. (3 km)</p> <p>Cable type:</p> <ul style="list-style-type: none"> • Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1; <p>Maximum distance:</p> <ul style="list-style-type: none"> • 10-70,000 m (single-mode fiber)
<p>Notes</p>	<p>Services</p>	<p>Power consumption is 0.8 watts typical with 1 watt maximum at 100% utilization. For distances less than 20 km, a 10 dB attenuator must be used. For distances between 20 km and 40 km, a 5 dB attenuator must be used. Attenuators can be purchased from most cable vendors.</p> <p>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.</p>
<p>HPE X111 100M SFP LC FX Transceiver (J9054C) HP X111 100M SFP LC FX Transceiver: An SFP format 100-megabit transceiver with LC connectors using FX technology.</p>	<p>Physical characteristics</p> <p>Environment</p> <p>Cabling</p>	<p>1 LC 100BASE-FX port (IEEE 802.3u Type 100BASE-FX); Duplex: half or full Dimensions: 2.7(d) x 0.54(w) x 0.48(h) in. (6.86 x 1.38 x 1.22 cm) Weight: 0.06 lb. (0.03 kg)</p> <p>Operating temperature: 32°F to 158°F (0°C to 70°C)</p> <p>Operating relative humidity: 5% to 95% Nonoperating/Storage temperature: -40°F to 185°F (-40°C to 85°C) Nonoperating/Storage relative humidity: 5% to 85% Altitude: up to 10,000 ft. (3 km)</p> <p>Cable type:</p> <ul style="list-style-type: none"> • 62.5/125 μm or 50/125 μm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively; Maximum distance: • 2 km (full duplex) or 412 m (half duplex)
<p>Notes</p>	<p>Services</p>	<p>Transmitter wavelength: 1310nm Power consumption is 1.1 watt maximum. For supported platforms and minimum software requirements to support this product, see the document titled "Support for the J9054C 100-FX SFP-LC Transceiver" on the "ProCurve Mini-GBICs and SFPs" Manuals Web page.</p> <p>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.</p>

Additional Options

HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable (AJ833A)

Cabling

Cable type:

50/125 μm (core/cladding) diameter, multimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

Notes

Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 μm fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

- Dimensions: Core diameter: $50 \pm 3.0\mu\text{m}$ Cladding diameter: $125 \pm 2.0\mu\text{m}$ Coating diameter: $245 \pm 10\mu\text{m}$
- Optical glass: Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.
- Optical glass: Bandwidth: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.
- CABLE: The cable is duplex zipcord graded index 50/125 μm multimode optical fiber and designed to work in both the 850 and 1300 nm wavelength windows.
- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Aqua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

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 Premier Flex LC/LC Notes Multi-mode OM4 2 fiber 1m Cable (QK732A)

- Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125 μm duplex cable and Ethernet assembly with LC duplex connectors on each end.
- Core Diameter: 50 $\mu\text{m} \pm 3\mu\text{m}$, Cladding diameter: 125 $\mu\text{m} \pm 2\mu\text{m}$; Coating diameter: $245 \pm 10\mu\text{m}$
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125 μm , Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

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.

Additional Options

HPE Premier Flex LC/LC Notes Multi-mode OM4 2 fiber 2m Cable (QK733A)

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

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 Premier Flex LC/LC Notes Multi-mode OM4 2 fiber 5m Cable (QK734A)

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

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.

Additional Options

HPE Premier Flex LC/LC Notes Multi-mode OM4 2 fiber 15m Cable (QK735A)

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

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 Premier Flex LC/LC Notes Multi-mode OM4 2 fiber 30m Cable (QK736A)

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

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.

Additional Options

HPE Premier Flex LC/LC Notes Multi-mode OM4 2 fiber 50m Cable (QK737A)

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

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 2930F 24G 4SFP+ Switch (JL253A)

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 4 SFP+ 1/10GbE ports; PHY-less
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port
Physical characteristics	<p>Dimensions 17.42(w) x 7.88(d) x 1.73(h) in (44.25 x 20.02 x 4.39 cm) (1U height)</p> <p>Weight 5.31 lb (2.41 kg)</p>
Memory and processor	Dual Core ARM Coretex A9 @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB 4.5MB Ingress/7.875MB Egress, 4 GB eMMC
Performance	<p>1000 Mb Latency < 3.8 μs (64-byte packets)</p> <p>10 Gbps Latency < 1.6 μs (64-byte packets)</p> <p>Throughput up to 95.2 Mpps</p> <p>Switching capacity 128 Gbps</p> <p>Routing table size 2,000 IPv4, 1,000 IPv6 in hardware, 200 OSPF, 256 Static, 10,000 RIP</p> <p>MAC address table size 32768 entries</p>
Environment	<p>Operating temperature 32°F to 113°F (0°C to 45°C); up to 5000 Feet, - 0C to 40C (32F to 104F) up to 10000 Feet</p> <p>Operating relative humidity 15% to 95% @ 104°F (40°C), noncondensing</p> <p>Nonoperating/Storage temperature -40°F to 158°F (-40°C to 70°C); up to 15000 Feet</p> <p>Nonoperating/Storage temperature 15% to 95% @ 149°F (65°C), noncondensing</p> <p>Acoustic Power: 49.7 dB, Pressure: 37.1 dB</p> <p>Airflow direction Side-to-side</p>
Electrical characteristics	<p>Maximum heat dissipation 100 BTU/hr (105.5 kJ/hr)</p> <p>Voltage 100 - 127 / 200 - 240 VAC, rated</p> <p>Current 0.6/0.4 A</p> <p>Maximum power rating 29.3 W</p> <p>Idle power 19.5 W</p> <p>Frequency 50/60 Hz</p> <p>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 provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated..</p>
Safety	UL 60950-1, 2nd Edition; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; IEC 60950-1:2005 +A1:2009 +A2:2013; CSA 22.2 No. 60950-1-07 2nd; EN 60825-1:2014 / IEC 60825-1:2014 Class 1

Technical Specifications

Emissions	EN 55032:2012/CISPR 32 Class A; FCC CFR 47 Part 15 Class A; VCCI Class A; ICES-003 Class A; CNS 13438	
Immunity	Generic	EN 55024:2010/CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC/EN 61000-3-2
	Flicker	IEC/EN 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; 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 2930F 48G 4SFP+ Switch (JL254A)

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	
	4 SFP+ 1/10GbE ports; PHY-less	
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port	
Physical characteristics	Dimensions	17.42(w) x 9.7(d) x 1.73(h) in (44.25 x 24.63 x 4.39 cm) (1U height)
	Weight	6.83 lb (3.10 kg)
Memory and processor	Dual Core ARM Coretex @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB 4.5MB Ingress/7.875MB Egress, 4 GB eMMC	
Performance	1000 Mb Latency	< 3.8 μ s (64-byte packets)
	10 Gbps Latency	< 1.6 μ s (64-byte packets)
	Throughput	up to 112.0 Mpps
	Switching capacity	176 Gbps
	Routing table size	2,000 IPv4, 1,000 IPv6 in hardware, 200 OSPF, 256 Static, 10,000 RIP
	MAC address table size	32768 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); up to 5000 Feet, - 0C to 40C (32F to 104F) up to 10000 Feet
	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 15000 Feet

Technical Specifications

	Nonoperating/Storage temperature	15% to 95% @ 149°F (65°C), noncondensing
	Acoustic	Power: 54.1 dB, Pressure: 40.2 dB
	Airflow direction	Side-to-side
Electrical characteristics	Maximum heat dissipation	157.2 BTU/hr (165.8 KJ/hr)
	Voltage	100 - 127 / 200 - 240 VAC, rated
	Current	0.9/0.6 A
	Maximum power rating	46.6 W
	Idle power	32.7 W
	Frequency	50/60 Hz
	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 provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated..
Safety	UL 60950-1, 2nd Edition; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; IEC 60950-1:2005 +A1:2009 +A2:2013; CSA 22.2 No. 60950-1-07 2nd; EN 60825-1:2014 / IEC 60825-1:2014 Class 1	
Emissions	EN 55032:2012/CISPR 32 Class A; FCC CFR 47 Part 15 Class A; VCCI Class A; ICES-003 Class A; CNS 13438	
Immunity	Generic	EN 55024:2010/CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC/EN 61000-3-2
	Flicker	IEC/EN 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; 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 2930F 24G PoE+ 4SFP+ Switch (JL255A)

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 4 SFP+ 1/10GbE ports; PHY-less
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port

Technical Specifications

Physical characteristics	Dimensions	17.42(w) x 11.98(d) x 1.73(h) in (44.25 x 30.42 x 4.39 cm) (1U height)	
	Weight	8.6 lb (3.9 kg)	
Memory and processor	Dual Core ARM Coretex @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB 4.5 MB Ingress/7.875MB Egress, 4 GB eMMC		
Performance	1000 Mb Latency	< 3.8 μ s (64-byte packets)	
	10 Gbps Latency	< 1.6 μ s (64-byte packets)	
	Throughput	up to 95.2 Mpps	
	Switching capacity	128 Gbps	
	Routing table size	2,000 IPv4, 1,000 IPv6 in hardware, 200 OSPF, 256 Static, 10,000 RIP	
	MAC address table size	32768 entries	
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); up to 5000 Feet, - 0C to 40C (32F to 104F) up to 10000 Feet	
	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 15000 Feet	
	Nonoperating/Storage temperature	15% to 95% @ 149°F (65°C), noncondensing	
	Acoustic	Power: 54.1 dB, Pressure: 40.2 dB	
	Airflow direction	Side-to-side	
	80plus.org Certification	Silver	
Electrical characteristics	Maximum heat dissipation	258.0 BTU/hr (272.2 KJ/hr)	
	Voltage	100 - 127 / 200 - 240 VAC, rated	
	Current	4.9/2.4 A	
	Maximum power rating	445 W	
	Idle power	36.8 W	
	PoE power	370 W PoE+	
	Frequency	50/60 Hz	
	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 provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated..	
	Safety	UL 60950-1 2nd Edition; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; IEC 60950-1:2005 +A1:2009 +A2:2013; CSA 22.2 No. 60950-1-07 2nd; EN 60825-1:2014 / IEC 60825-1:2014 Class 1	
	Emissions	EN 55032:2012/CISPR 32 Class A; FCC CFR 47 Part 15 Class A; VCCI Class A; ICES-003 Class A; CNS 13438	

Technical Specifications

Immunity	Generic	EN 55024:2010/CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC/EN 61000-3-2
Flicker	IEC/EN 61000-3-3	
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; 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 2930F 48G PoE+ 4SFP+ Switch (JL256A)

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 4 SFP+ 1/10GbE ports; PHY-less	
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port	
Physical characteristics	Dimensions	17.42(w) x 11.98(d) x 1.73(h) in (44.25 x 30.42 x 4.39 cm) (1U height)
	Weight	9.83 lb (4.46 kg)
Memory and processor	Dual Core ARM Coretex @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB 4.5MB Ingress/7.875MB Egress, 4 GB eMMC	
Performance	1000 Mb Latency	< 3.8 μ s (64-byte packets)
	10 Gbps Latency	< 1.6 μ s (64-byte packets)
	Throughput	up to 112.0 Mpps
	Switching capacity	176 Gbps
	Routing table size	2,000 IPv4, 1,000 IPv6 in hardware, 200 OSPF, 256 Static, 10,000 RIP
	MAC address table size	32768 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); up to 5000 Feet, - 0C to 40C (32F to 104F) up to 10000 Feet
	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 15000 Feet
	Nonoperating/Storage temperature	15% to 95% @ 149°F (65°C), noncondensing
	Acoustic	Power: 55.7 dB, Pressure: 41.7 dB
	Airflow direction	Side-to-side

Technical Specifications

Electrical characteristics	80plus.org Certification	Silver
	Maximum heat dissipation	293.0 BTU/hr (309.1 kJ/hr)
	Voltage	100 - 127 / 200 - 240 VAC, rated
	Current	5.1/2.5 A
	Maximum power rating	459 W
	Idle power	48.6 W
	PoE power	370 W PoE+
	Frequency	50/60 Hz
		Notes
Safety	UL 60950-1 2nd Edition; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; IEC 60950-1:2005 +A1:2009 +A2:2013; CSA 22.2 No. 60950-1-07 2nd; EN 60825-1:2014 / IEC 60825-1:2014 Class 1	
Emissions	EN 55032:2012/CISPR 32 Class A; FCC CFR 47 Part 15 Class A; VCCI Class A; ICES-003 Class A; CNS 13438	
Immunity	Generic	EN 55024:2010/CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
Harmonics	Harmonics	IEC/EN 61000-3-2
	Flicker	IEC/EN 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; 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 2930F 8G PoE+ 2SFP+ Switch (JL258A)

I/O ports and slots	8 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 2 SFP+ 1/10GbE ports; PHY-less	
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port	
Physical characteristics	Dimensions	10(w) x 10(d) x 1.73(h) in (25.4 x 25.4 x 4.39 cm) (1U height)
	Weight	4.41 lb (2.0 kg)
Memory and processor	Dual Core ARM Coretex A9 @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB 4.5MB Ingress/7.785 Egress, 4 GB eMMC	
Performance	1000 Mb Latency	< 3.8 μ s (64-byte packets)
	10 Gbps Latency	< 1.6 μ s (64-byte packets)
	Throughput	up to 41.7 Mpps
	Switching capacity	56 Gbps
	Routing table size	2,000 IPv4, 1,000 IPv6 in hardware, 200 OSPF, 256 Static, 10,000 RIP
	MAC address table size	32768 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); up to 5000 Feet, - 0C to 40C (32F to 104F) up to 10000 Feet
	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 15000 Feet
	Nonoperating/Storage humidity	15% to 95% @ 149°F (65°C), noncondensing
	Acoustic	Power: 0 dB, Pressure: 0 dB Fanless
Electrical characteristics	Description	Power supply meets DoE VI certification.
	Maximum heat dissipation	58.6 BTU/hr (61.8 kJ/hr)
	Voltage	90 - 264 VAC, rated
	Current	2.6 A
	Maximum power rating	155 W
	PoE power	125 W PoE+
	Frequency	50/60 Hz
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE Power is the power supplied by the internal power supply, it is dependent on the type and quantity of power supplies and may be supplemented with the use of a External Power Supply (EPS).
Safety	UL 60950-1 2nd Edition; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; IEC 60950-1:2005 +A1:2009 +A2:2013; CSA 22.2 No. 60950-1-07 2nd; EN 60825-1:2014 / IEC 60825-1:2014 Class 1	
Emissions	EN 55032:2012/CISPR 32 Class A; FCC CFR 47 Part 15 Class A; VCCI Class A; ICES-003 Class A; CNS 13438	

Technical Specifications

Immunity	Generic	EN 55024:2010/CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC/EN 61000-3-2
Flicker	IEC/EN 61000-3-3	
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; 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 2930F 24G 4SFP Switch (JL259A)

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 4 SFP	
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port	
Physical characteristics	Dimensions	17.42(w) x 7.88(d) x 1.73(h) in (44.25 x 20.02 x 4.39 cm) (1U height)
	Weight	5.31 lb (2.41 kg)
Memory and processor	Dual Core ARM Coretex A9 @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB 4.5MB Ingress/7.785 Egress, 4 GB eMMC	
Performance	1000 Mb Latency	< 3.8 μ s (64-byte packets)
	Throughput	up to 41.7 Mpps
	Switching capacity	56 Gbps
	Routing table size	2,000 IPv4, 1,000 IPv6 in hardware, 200 OSPF, 256 Static, 10,000 RIP
	MAC address table size	32768 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); up to 5000 Feet, - 0C to 40C (32F to 104F) up to 10000 Feet
	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 15000 Feet
	Nonoperating/Storage temperature	15% to 95% @ 149°F (65°C), noncondensing
	Acoustic	Power: 49.7 dB, Pressure: 37.1 dB
Airflow direction	Side-to-side	

Technical Specifications

Electrical characteristics	Maximum heat dissipation	100 BTU/hr (105.5 kJ/hr)
	Voltage	100 - 127 / 200 - 240 VAC, rated
	Current	0.6/0.4 A
	Maximum power rating	29.3 W
	Idle power	19.5 W
	Frequency	50/60 Hz
	Notes	<p>Idle power is the actual power consumption of the device with no ports connected.</p> <p>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.</p>
Safety	UL 60950-1 2nd Edition; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; IEC 60950-1:2005 +A1:2009 +A2:2013; CSA 22.2 No. 60950-1-07 2nd; EN 60825-1:2014 / IEC 60825-1:2014 Class 1	
Emissions	EN 55032:2012/CISPR 32 Class A; FCC CFR 47 Part 15 Class A; VCCI Class A; ICES-003 Class A; CNS 13438	
Immunity	Generic	EN 55024:2010/CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC/EN 61000-3-2
Flicker	IEC/EN 61000-3-3	
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; 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 2930F 48G 4SFP Switch (JL260A)

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	
	4 SFP	
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port	
Physical characteristics	Dimensions	17.42(w) x 9.7(d) x 1.73(h) in (44.25 x 24.63 x 4.39 cm) (1U height)
	Weight	6.83 lb (3.10 kg)
Memory and processor	Dual Core ARM Coretex @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB 4.5MB Ingress/7.875MB Egress, 4 GB eMMC	
Performance	1000 Mb Latency	< 3.8 μ s (64-byte packets)
	Throughput	up to 77.4 Mpps
	Switching capacity	104 Gbps
	Routing table size	2,000 IPv4, 1,000 IPv6 in hardware, 200 OSPF, 256 Static, 10,000 RIP
	MAC address table size	32768 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); up to 5000 Feet, - 0C to 40C (32F to 104F) up to 10000 Feet
	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 15000 Feet
	Nonoperating/Storage temperature	15% to 95% @ 149°F (65°C), noncondensing
	Acoustic	Power: 54.1 dB, Pressure: 40.2 dB
	Airflow direction	Side-to-side
Electrical characteristics	Maximum heat dissipation	100.0 BTU/hr (105.5 kJ/hr)
	Voltage	100 - 127 / 200 - 240 VAC, rated
	Current	0.9/0.6 A
	Maximum power rating	46.6 W
	Idle power	32.7 W
	Frequency	50/60 Hz
	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 provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety	UL 60950-1, 2nd Edition; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; IEC 60950-1:2005 +A1:2009 +A2:2013; CSA 22.2 No. 60950-1-07 2nd; EN 60825-1:2014 / IEC 60825-1:2014 Class 1	
Emissions	EN 55032:2012/CISPR 32 Class A; FCC CFR 47 Part 15 Class A; VCCI Class A; ICES-003 Class A; CNS 13438	

Technical Specifications

Immunity	Generic	EN 55024:2010/CISPR 24
	ESD	IEC 61000-4-2:
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC/EN 61000-3-2
	Flicker	IEC/EN 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; 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 2930F 24G PoE+ 4SFP Switch (JL261A)

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	
	4 SFP	
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port	
Physical characteristics	Dimensions	17.42(w) x 11.98(d) x 1.73(h) in (44.25 x 30.42 x 4.39 cm) (1U height)
	Weight	8.6 lb (3.9 kg)
Memory and processor	Dual Core ARM Coretex A9 @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB 4.5MB Ingress/7.785 Egress, 4 GB eMMC	
Performance	1000 Mb Latency	< 3.8 μ s (64-byte packets)
	Throughput	up to 41.7 Mpps
	Switching capacity	56 Gbps
	Routing table size	2,000 IPv4, 1,000 IPv6 in hardware, 200 OSPF, 256 Static, 10,000 RIP
	MAC address table size	32768 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); up to 5000 Feet, - 0C to 40C (32F to 104F) up to 10000 Feet
	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 15000 Feet
	Nonoperating/Storage temperature	15% to 95% @ 149°F (65°C)
	Acoustic	Power: 54.1 dB, Pressure: 40.6 dB
	Airflow direction	Side-to-side

Technical Specifications

Electrical characteristics	80plus.org Certification	Silver
	Maximum heat dissipation	258.0 BTU/hr (272.2 kJ/hr)
	Voltage	100 - 127 / 200 - 240 VAC, rated
	Current	4.9/2.4 A
	Maximum power rating	445 W
	Idle power	36.8 W
	PoE power	370 W PoE+
	Frequency	50/60 Hz
	Notes	<p>Idle power is the actual power consumption of the device with no ports connected.</p> <p>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.</p>
Safety	UL 60950-1 2nd Edition; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; IEC 60950-1:2005 +A1:2009 +A2:2013; CSA 22.2 No. 60950-1-07 2nd; EN 60825-1:2014 / IEC 60825-1:2014 Class 1	
Emissions	EN 55032:2012/CISPR 32 Class A; FCC CFR 47 Part 15 Class A; VCCI Class A; ICES-003 Class A; CNS 13438	
Immunity	Generic	EN 55024:2010/CISPR 24
	ESD	IEC 61000-4-2:
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC/EN 61000-3-2
	Flicker	IEC/EN 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; 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 2930F 48G PoE+ 4SFP Switch (JL262A)

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	
	4 SFP	
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port	
Physical characteristics	Dimensions	17.42(w) x 11.98(d) x 1.73(h) in (44.25 x 30.42 x 4.39 cm) (1U height)
	Weight	9.83 lb (4.46 kg)
Memory and processor	Dual Core ARM Coretex @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB 4.5MB Ingress/7.875MB Egress, 4 GB eMMC	
Performance	1000 Mb Latency	< 3.8 μ s (64-byte packets)
	Throughput	up to 77.4 Mpps
	Switching capacity	104 Gbps
	Routing table size	2,000 IPv4, 1,000 IPv6 in hardware, 200 OSPF, 256 Static, 10,000 RIP
	MAC address table size	32768 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); up to 5000 Feet, - 0C to 40C (32F to 104F) up to 10000 Feet
	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 15000 Feet
	Nonoperating/Storage temperature	15% to 95% @ 149°F (65°C)
	Acoustic	Power: 55.7 dB, Pressure: 41.7 dB
	Airflow direction	Side-to-side
Electrical characteristics	80plus.org Certification	Silver
	Maximum heat dissipation	293.0 BTU/hr (309.1 kJ/hr)
	Voltage	100 - 127 / 200 - 240 VAC, rated
	Current	5.1/2.5 A
	Maximum power rating	459 W
	Idle power	48.6 W
	PoE power	370 W PoE+
	Frequency	50/60 Hz
	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 provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety	UL 60950-1 2nd Edition; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; IEC 60950-1:2005 +A1:2009 +A2:2013; CSA 22.2 No. 60950-1-07 2nd; EN 60825-1:2014 / IEC 60825-1:2014 Class 1	
Emissions	EN 55032:2012/CISPR 32 Class A; FCC CFR 47 Part 15 Class A; VCCI Class A; ICES-003 Class A; CNS 13438	

Technical Specifications

Immunity	Generic	EN 55024:2010/CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC/EN 61000-3-2
	Flicker	IEC/EN 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; 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 2930F 24G PoE+ 4SFP+ TAA-compliant Switch (JL263A)

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 4 SFP+ 1/10GbE ports PHY-less	
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port	
Physical characteristics	Dimensions	17.42(w) x 11.98(d) x 1.73(h) in. (44.25 x 30.42 x 4.39 cm) (1U height)
	Weight	8.6 lb (3.9 kg)
Memory and processor	Dual Core ARM® Cortex A9 @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB; 4.5 MB Ingress/7.785 MB Egress, 4 GB eMMC	
Performance	1000 Mb Latency	< 3.8 μs (64-byte packets)
	10 Gbps Latency	< 1.6 μs (64-byte packets)
	Throughput	Up to 95.2 Mpps
	Switching capacity	128 Gbps
	Routing table size	2,000 IPv4, 1,000 IPv6 in hardware, 200 OSPF, 256 Static, 10,000 RIP
	MAC address table size	32,768 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); up to 5000 Feet, -0°C to 40°C (32°F to 104°F) up to 10000 Feet
	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 15000 Feet
	Nonoperating/Storage temperature	15% to 95% @ 149°F (65°C)
	Acoustic	Power: 54.1 dB, Pressure: 40.6 dB
	Airflow direction	Side-to-side

Technical Specifications

Electrical characteristics	80plus.org Certification	Silver
	Maximum heat dissipation	258.0 BTU/hr (272.2kJ/hr)
	Voltage	100-127 / 200-240 VAC, rated
	Current	4.9/2.4 A
	Maximum power rating	445 W
	Idle power	36.8 W
	PoE power	370 W PoE+
	Frequency	50/60 Hz
	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 provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety	UL 69050-1: 2nd Edition; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; IEC 60950-1:2005 +A1:2009 +A2:2013; CSA 22.2 No. 60950-1-07 2nd; EN 60825-1:2014 / IEC 60825-1:2014 Class 1	
Emissions	EN 55032:2012/CISPR 32 Class A; FCC CFR 47 Part 15 Class A; VCCI Class A; ICES-003 Class A; CNS 13438	
Immunity	Generic	EN 55024:2010/CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC/EN 61000-3-2
	Flicker	IEC/EN 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; 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 2930F 48G PoE+ 4SFP+ TAA-compliant Switch (JL264A)

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 4 SFP+ 1/10GbE ports PHY-less	
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port	
Physical characteristics	Dimensions	17.42(w) x 11.98(d) x 1.73(h) in. (44.25 x 30.42 x 4.39 cm) (1U height)

Technical Specifications

	Weight	9.83 lb (4.46 kg)
Memory and processor		Dual Core ARM® Cortex A9 @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB; 4.5 MB Ingress/7.785 MB Egress, 4 GB eMMC
Performance	1000 Mb Latency	< 3.8 μs (64-byte packets)
	10 Gbps Latency	< 1.6 μs (64-byte packets)
	Throughput	Up to 112.0 Mpps
	Switching capacity	176 Gbps
	Routing table size	2,000 IPv4, 1,000 IPv6 in hardware, 200 OSPF, 256 Static, 10,000 RIP
	MAC address table size	32,768 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); up to 5000 Feet, -0°C to 40°C (32°F to 104°F) up to 10000 Feet
	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 15000 Feet
	Nonoperating/Storage temperature	15% to 95% @ 149°F (65°C)
	Acoustic	Power: 55.7 dB, Pressure: 41.7 dB
	Airflow direction	Side-to-side
Electrical characteristics	80plus.org Certification	Silver
	Maximum heat dissipation	293.0 BTU/hr (309.1 kJ/hr)
	Voltage	100-127 / 200-240 VAC, rated
	Current	5.1/2.5 A
	Maximum power rating	459 W
	Idle power	48.6 W
	PoE power	370 W PoE+
	Frequency	50/60 Hz
	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 provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety		UL 69050-1: 2nd Edition; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; IEC 60950-1:2005 +A1:2009 +A2:2013; CSA 22.2 No. 60950-1-07 2nd; EN 60825-1:2014 / IEC 60825-1:2014 Class 1
Emissions		EN 55032:2012/CISPR 32 Class A; FCC CFR 47 Part 15 Class A; VCCI Class A; ICES-003 Class A; CNS 13438
Immunity	Generic	EN 55024:2010/CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8

Technical Specifications

	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC/EN 61000-3-2
	Flicker	IEC/EN 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; 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 2930F 48G PoE+ 4SFP 740W Switch (JL557A)

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 4 SFP+	
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port	
Physical characteristics	Dimensions	17.42 (w) x 12.77 (d) x 1.73 (h) in (44.25 x 32.42 x 4.39 cm) (1U height)
	Weight	10.56 lb (4.79 kg)
Memory and processor	Dual Core ARM Coretex A9 @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB 4.5MB Ingress/7.785 Egress, 4 GB eMMC	
Performance	1000 Mb Latency	< 3.8 μ s (64-byte packets)
	Throughput	up to 77.4 Mpps
	Switching capacity	104 Gbps
	Routing table size	2,000 IPv4, 1,000 IPv6 in hardware, 200 OSPF, 256 Static, 10,000 RIP
	MAC address table size	32,768
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); up to 5,000 Feet, 0°C to 40°C (32°F to 104°F) up to 10,000 Feet
	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 15,000 Feet
	Nonoperating/Storage temperature	15% to 95% @ 149°F (65°C)
	Acoustic (power and pressure) in decibals	Power: 55.1 dB, Pressure: 41.1 dB
	Airflow direction	Side to side
Electrical characteristics	80plus.org Certification	Gold
	Maximum heat dissipation	420.9 BTU/hr (444.1 kJ/hr)
	Voltage	100-127 / 200-240 VAC, rated
	Current	9.2 / 4.9 A
	Maximum power rating	980W
	Idle power	49.9W
	PoE power	740 W PoE+

Technical Specifications

	Frequency	50/60 Hz
	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 provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety		UL 69050-1: 2nd Edition; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; IEC 60950- 1:2005 +A1:2009 +A2:2013; CSA 22.2 No. 60950-1-07 2nd; EN 60825- 1:2014 / IEC 60825-1:2014 Class 1
Emissions		EN 55032:2012/CISPR 32 Class A; FCC CFR 47 Part 15 Class A; VCCI Class A; ICES-003 Class A; CNS 13438
Immunity	Generic	EN 55024:2010/CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC/EN 61000-3-2
	Flicker	IEC/EN 61000-3-3
Management		Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; 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 2930F 48G PoE+ 4SFP+ 740W Switch (JL558A)

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 4 SFP+ 1/10GbE ports PHY-less
Additional ports and slots		1 dual-personality (RJ-45 or USB micro-B) serial console port
Physical characteristics	Dimensions	17.42 (w) x 12.77 (d) x 1.73 (h) in (44.25 x 32.42 x 4.39 cm) (1U height)
	Weight	10.56 lb (4.79 kg)
Memory and processor		Dual Core ARM Coretex A9 @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB 4.5MB Ingress/7.785 Egress,4 GB eMMC
Performance	1000 Mb Latency	< 3.8 μ s (64-byte packets)
	10Gbps latency	< 1.6 μ s (64-byte packets)
	Throughput	up to 112.0 Mpps

Technical Specifications

	Switching capacity	176 Gbps
	Routing table size	2,000 IPv4, 1,000 IPv6 in hardware, 200 OSPF, 256 Static, 10,000 RIP
	MAC address table size	32,768
Environment	Operating temperature	32°F to 113°F (0°C to 45°C); up to 5,000 Feet, 0°C to 40°C (32°F to 104°F) up to 10,000 Feet
	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 15,000 Feet
	Nonoperating/Storage temperature	15% to 95% @ 149°F (65°C)
	Acoustic (power and pressure) in decibals	Power: 55.1 dB, Pressure: 41.1 dB
	Airflow direction	Side to side
Electrical characteristics	80plus.org Certification	Gold
	Maximum heat dissipation	420.9 BTU/hr (444.1 kJ/hr)
	Voltage	100-127 / 200-240 VAC, rated
	Current	9.2 / 4.9 A
	Maximum power rating	980W
	Idle power	49.9W
	PoE power	740 W PoE+
	Frequency	50/60 Hz
	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 provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.

Technical Specifications

Safety	UL 69050-1: 2nd Edition; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; IEC 60950-1:2005 +A1:2009 +A2:2013; CSA 22.2 No. 60950-1-07 2nd; EN 60825-1:2014 / IEC 60825-1:2014 Class 1	
Emissions	EN 55032:2012/CISPR 32 Class A; FCC CFR 47 Part 15 Class A; VCCI Class A; ICES-003 Class A; CNS 13438	
Immunity	Generic	EN 55024:2010/CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	IEC/EN 61000-3-2
	Flicker	IEC/EN 61000-3-3
Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; 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 2930F 48G PoE+ 4SFP+ 740W TAA-compliant Switch (JL559A)

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 4 SFP+ 1/10GbE ports PHY-less	
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port	
Physical characteristics	Dimensions	17.42 (w) x 12.77 (d) x 1.73 (h) in (44.25 x 32.42 x 4.39 cm) (1U height)
	Weight	10.56 lb (4.79 kg)
Memory and processor	Dual Core ARM Coretex A9 @ 1016 MHz, 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB 4.5MB Ingress/7.785 Egress, 4 GB eMMC	
Performance	1000 Mb Latency	< 3.8 μ s (64-byte packets)
	10Gbps latency	< 1.6 μ s (64-byte packets)
	Throughput	up to 112.0 Mpps
	Switching capacity	176 Gbps
	Routing table size	2,000 IPv4, 1,000 IPv6 in hardware, 200 OSPF, 256 Static, 10,000 RIP
	MAC address table size	32,768

Technical Specifications

Environment	Operating temperature	32°F to 113°F (0°C to 45°C); up to 5,000 Feet, 0°C to 40°C (32°F to 104°F) up to 10,000 Feet	
	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 15,000 Feet	
	Nonoperating/Storage temperature	15% to 95% @ 149°F (65°C)	
	Acoustic (power and pressure) in decibals	Power: 55.1 dB, Pressure: 41.1 dB	
	Airflow direction	Side to side	
	Electrical characteristics	80plus.org Certification	Gold
		Maximum heat dissipation	420.9 BTU/hr (444.1 kJ/hr)
		Voltage	100-127 / 200-240 VAC, rated
		Current	9.2 / 4.9 A
Maximum power rating		980W	
Idle power		49.9W	
PoE power		740 W PoE+	
Frequency		50/60 Hz	
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 provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	
Safety		UL 69050-1: 2nd Edition; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; IEC 60950- 1:2005 +A1:2009 +A2:2013; CSA 22.2 No. 60950-1-07 2nd; EN 60825- 1:2014 / IEC 60825-1:2014 Class 1	
Emissions	EN 55032:2012/CISPR 32 Class A; FCC CFR 47 Part 15 Class A; VCCI Class A; ICES-003 Class A; CNS 13438		
Immunity	Generic	EN 55024:2010/CISPR 24	
	ESD	IEC 61000-4-2	
	Radiated	IEC 61000-4-3	
	EFT/Burst	IEC 61000-4-4	
	Surge	IEC 61000-4-5	
	Conducted	IEC 61000-4-6	
	Power frequency magnetic field	IEC 61000-4-8	
	Voltage dips and interruptions	IEC 61000-4-11	
	Harmonics	IEC/EN 61000-3-2	
	Flicker	IEC/EN 61000-3-3	

Technical Specifications

Management	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; 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.

Standards and protocols (applies to all products in series)

Denial of service protection

CPU DoS Protection

Device Management

RFC 1155 Structure and Mgmt Information (SMIv1)
RFC 1157 SNMPv1/v2c
RFC 1591 DNS (client)
RFC 1901 (Community based SNMPv2)
RFC 1901-1907 SNMPv2c, SMIv2 and Revised MIB-II
RFC 1908 (SNMP v1/2 Coexistence)
RFC 2576 (Coexistence between SNMP V1, V2, V3)
RFC 2578-2580 SMIv2
RFC 2579 (SMIv2 Text Conventions)
RFC 2580 (SMIv2 Conformance)
RFC 2819 (RMON groups Alarm, Event, History and Statistics only)
RFC 3416 (SNMP Protocol Operations v2)
RFC 3417 (SNMP Transport Mappings)
HTML and telnet management
HTTP, SSHv1, and Telnet
Multiple Configuration Files
Multiple Software Images
SNMP v3 and RMON RFC support
SSHv1/SSHv2 Secure Shell
TACACS/TACACS+
Web UI

Technical Specifications

General Protocols

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 802.3ab 1000BASE-T
IEEE 802.3ad Link Aggregation Control Protocol (LACP)
IEEE 802.3af Power over Ethernet
IEEE 802.3at PoE+
IEEE 802.3az Energy Efficient Ethernet
IEEE 802.3x Flow Control
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 1256 ICMP Router Discovery Protocol (IRDP)
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 2236 IGMP Snooping
RFC 2453 RIPv2
RFC 2865 Remote Authentication Dial In User Service (RADIUS)
RFC 2866 RADIUS Accounting
RFC 3046 DHCP Relay Agent Information Option
RFC 3411 An Architecture for Describing Simple Network Management Protocol (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 3416 Protocol Operations for SNMP
RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP)
RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)
RFC 3575 IANA Considerations for RADIUS
RFC 3576 Ext to RADIUS (CoA only)
RFC 4541 Considerations for Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) Snooping Switches
RFC 4675 RADIUS VLAN & Priority
RFC 4861 Neighbor Discovery for IP version 6 (IPv6)
RFC 4862 IPv6 Stateless Address Autoconfiguration
RFC 5905 Network Time Protocol Version 4: Protocol and Algorithms Specification
UDLD (Uni-directional Link Detection)

Technical Specifications

IP Multicast

RFC 1112 IGMP

RFC 2236 IGMPv2

RFC 2710 Multicast Listener Discovery (MLD) for IPv6

RFC 3376 IGMPv3

RFC 4541 Considerations for Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) Snooping Switches

IPv6

RFC 1981 IPv6 Path MTU Discovery

RFC 2080 RIPng for IPv6

RFC 2081 RIPng Protocol Applicability Statement

RFC 2082 RIP-2 MD5

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 2925 Remote Operations MIB (Ping only)

RFC 3019 MLDv1 MIB

RFC 3315 DHCPv6 (client and relay)

RFC 3484 Default Address Selection for IPv6

RFC 3513 IPv6 Addressing Architecture

RFC 3596 DNS Extension for IPv6

RFC 3810 MLDv2 for IPv6

RFC 4022 MIB for TCP

RFC 4113 MIB for UDP

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 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 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 1156 (TCP/IP MIB)
RFC 1157 A Simple Network Management Protocol (SNMP)
RFC 1213 MIB II
RFC 1493 Bridge MIB
RFC 1724 RIPv2 MIB
RFC 2021 RMONv2 MIB
RFC 2578 Structure of Management Information Version 2 (SMIv2)
RFC 2579 Textual Conventions for SMIv2
RFC 2580 Conformance Statements for 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 2819 RMON MIB
RFC 2863 The Interfaces Group MIB
RFC 2925 Ping MIB
RFC 2932 IP (Multicast Routing MIB)
RFC 2933 IGMP MIB
RFC 3414 SNMP-User based-SM MIB
RFC 3415 SNMP-View based-ACM MIB
RFC 3417 Simple Network Management Protocol (SNMP) over IEEE 802 Networks
RFC 3418 MIB for SNMPv3
RFC 4836 Managed Objects for 802.3 Medium Attachment Units (MAU)

Network Management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
RFC 1155 Structure of Management Information
RFC 1157 SNMPv1
RFC 2021 Remote Network Monitoring Management Information Base Version 2 using SMIv2
RFC 2576 Coexistence between SNMP versions
RFC 2578 Structure of Management Information Version 2 (SMIv2)
RFC 2579 Textual Conventions for SMIv2
RFC 2580 Conformance Statements for SMIv2
RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)
RFC 2819 Remote Network Monitoring Management Information Base
RFC 2856 Textual Conventions for Additional High Capacity Data Types
RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations
RFC 3164 BSD syslog Protocol
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

Technical Specifications

QoS/CoS

IEEE 802.1p (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)
Ingress Rate Limiting

Security

IEEE 802.1X Port Based Network Access Control
RFC 1321 The MD5 Message-Digest Algorithm
RFC 1334 PPP Authentication Protocols (PAP)
RFC 1492 An Access Control Protocol, Sometimes Called TACACS
RFC 1492 TACACS+
RFC 1994 PPP Challenge Handshake Authentication Protocol (CHAP)
RFC 2082 RIP-2 MD5 Authentication
RFC 2104 Keyed-Hashing for Message Authentication
RFC 2138 RADIUS Authentication
RFC 2139 RADIUS Accounting
RFC 2246 Transport Layer Security (TLS)
RFC 2548 Microsoft Vendor-specific RADIUS Attributes
RFC 2618 RADIUS Authentication Client MIB
RFC 2620 RADIUS Accounting Client MIB
RFC 2698 A Two Rate Three Color Marker
RFC 2716 PPP EAP TLS Authentication Protocol
RFC 2818 HTTP Over TLS
RFC 2865 RADIUS (client only)
RFC 2865 RADIUS Authentication
RFC 2866 RADIUS Accounting
RFC 2867 RADIUS Accounting Modifications for Tunnel Protocol Support
RFC 2868 RADIUS Attributes for Tunnel Protocol Support
RFC 2869 RADIUS Extensions
RFC 2882 NAS Requirements: Extended RADIUS Practices
RFC 3162 RADIUS and IPv6
RFC 3576 Dynamic Authorization Extensions to RADIUS
RFC 3579 RADIUS Support For Extensible Authentication Protocol (EAP)
RFC 3580 IEEE 802.1X RADIUS
RFC 3580 IEEE 802.1X Remote Authentication Dial In User Service (RADIUS) Usage Guidelines
RFC 4675 RADIUS Attributes
Access Control Lists (ACLs)
draft-grant-tacacs-02 (TACACS)
Guest VLAN for 802.1X
MAC Authentication
MAC Lockdown
MAC Lockout
Port Security
Secure Sockets Layer (SSL)
SSHv2 Secure Shell
Web Authentication

Summary of Changes

Date	Version History	Action	Description of Change:
04-Mar-2019	Version 11	Changed	SKU J9151D was replaced with J9151E Obsolete SKUs were removed.
03-Dec-2018	Version 10	Changed	Software feature update: Key features, Product overview, Enhanced Capabilities and Technical Specifications updated
02-Jul-2018	Version 9	Changed	Software feature update
15-Jan-2018	Version 8	Changed	Minor changes made on Technical Specifications
08-Jan-2018	Version 7	Added	Models added: JL557A, JL558A, JL559A
03-Jul-2017	Version 6	Added	SKU added: JL448A
20-Jan-2017	Version 5	Changed	Minor changes made on Standards and protocols
07-Nov-2016	Version 4	Changed	Product overview, Features and Benefits, Technical Specifications updated
02-Sep-2016	Version 3	Changed	Product description updated.
24-Jun-2016	Version 2	Changed	Updated B2E Attribute Description for all switches on the Configuration section.
06-Jun-2016	Version 1	Creation	Document creation



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