Overview

HPE Networking Instant On Switch 1930

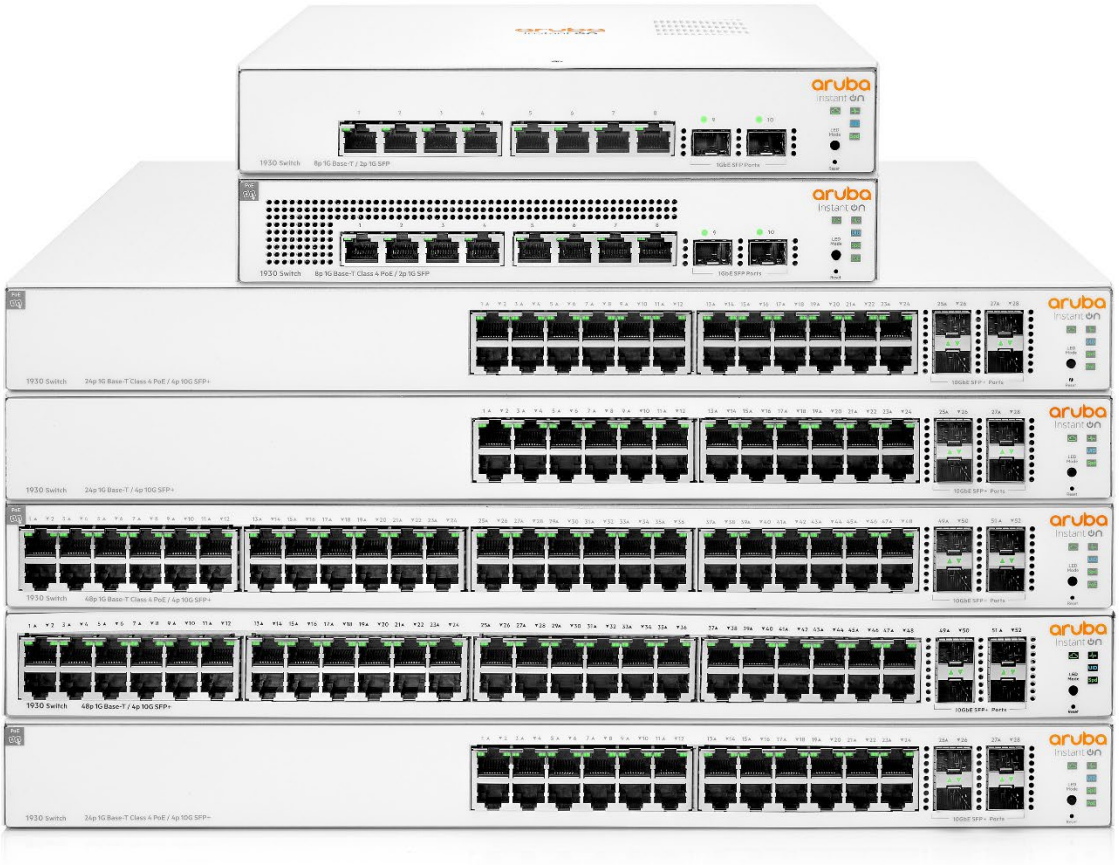
High-Performance, Smart-Managed Switches Designed with Small Businesses in Mind

Whether you own a cafe, a design firm or a tech startup, a reliable and secure network plays a critical role in the success of your business. And you need a network solution that gives you peace of mind, allowing you to focus on growing your business instead of managing problems with your network. HPE Networking Instant On makes it easy to keep network users happy, mobile and IoT devices connected, and your network secure.

The HPE Networking Instant On 1930 switches features advanced, smart-managed, fixed- configuration Gigabit switches designed for small businesses that are easy-to-deploy and affordable. They're made to handle today's bandwidth-heavy applications like voice and video conferencing, enabling consistent connectivity to enhance performance.

Using either the Instant On mobile app or the cloud-based web portal, you can quickly set up, monitor and manage the 1930 switch series from anywhere at any time. What's more, up to 30 W PoE power delivery is available out-of-the-box for your class 4 PoE devices, like access points, surveillance cameras and VoIP phones, all easily managed from the same platform.

Built-in security features protect your network from unauthorized access by allowing you to segment traffic and define access to each area of the network. And all of this is included in the price of the hardware – there are no hidden subscription or licensing fees.



HPE Networking Instant On 1930 Switches Family

Overview

Key Features

- Smart-managed layer 2+ Ethernet switch series ready to deploy in 8-, 24-and 48-port for non-PoE and Class 4 PoE models
- PoE to power APs and IoT devices like IP phones, surveillance cameras and door locks
- Two (2) dedicated 1G SFP fiber ports on 8-port models, and four (4) dedicated 1G/10G SFP+ fiber ports on 24-/48-port models to eliminate traffic bottlenecks across your network
- Security controls let you define access in each area of your network, keeping your business data safe
- Convenient mobile app and web- based GUI for set up, management and troubleshooting.

Standard Features

Simplicity at Its Best

- Plug-and-play switches that work together with Instant On APs right out of the box
- Mobile app to easily setup, monitor and manage your network

Security You Can Count On

- Protect your network from unauthorized access with IEEE 802.1X and VLANs
- Automatic denial-of-service (DOS) monitors and protects the network against malicious attacks

We've Got You Covered

- No extra licensing or subscription fees
- Industry-leading limited lifetime warranty and support.

The Instant On Differentiators

Easy Setup and Management

The HPE Networking Instant On mobile app allows you to set up, manage, and monitor Instant On switches and access points directly from your phone. Within the app, you get guided step-by-step instructions to install Instant On devices to get your network up and running quickly – no technical expertise required. And cloud-based access allows you to access the network from anywhere, at any time.

Non-intrusive, Aesthetic Design

HPE Networking Instant On switches are designed to complement the sleek and clean look of the Instant On access points, and to blend discreetly into your site's environment. The 8-port models, as well as the 24- and 48-port non PoE models, are fan-less, making them ideal for quiet office deployments.

High Performance with Flexible Options

The series consists of four (4) Class 4 PoE switches, and three (3) non-PoE switches including 8- 24- and 48-port Gigabit Ethernet switches. The two (2) dedicated 1G SFP fiber ports on 8-port models, and four (4) dedicated 1G/10G SFP+ fiber ports on 24-/48-port models, ensure high performance and eliminate traffic bottlenecks across the network. Customizable features include basic Layer 2 features like VLANs and link aggregation, as well as advanced features such as Layer 3 IPv4 static routing, ACLs, and Spanning Tree Protocols, and IPv6 Host mode.

Optimized User Experience

The HPE Networking Instant On mobile app provides common workflows for Instant On switches and access points making it easier to configure, monitor and manage your network remotely without the need for additional hardware like cloud keys or VPN. You can also update firmware on your Instant On devices directly from the cloud whenever you want, from wherever you are.

Site inventory

The site inventory feature on the Instant On mobile app shows you all switches and AP's on a single screen, allowing you to quickly identify non-functioning devices and troubleshoot accordingly.

Multi-Site Management

The cloud-hosted web interface and mobile app make it easy to manage multiple sites, multiple networks, distributed deployments and multi-tenant deployments. Each site is logically separated and has its own configuration, statistics, guest portal, and admin read/write privileges.

Built-In Security

Built-in security features protect your network from external threats by blocking malware attacks and keeping unauthorized users off the network. Network traffic can be filtered and access restricted based on MAC and IP address.

No Hidden Fees

All features are included in the price of the hardware – there are no recurring subscription or licensing fees. Expert-level support and industry leading limited lifetime warranty are also included, along with chat support for the life of the product.

Standard Features

Management

Cloud-Based Management for Entire Network
The cloud-hosted web interface and mobile app make it easy to manage networks with Instant On APs and Switches.

Simple Local Web GUI Management
For management of individual switches, the intuitive Web GUI makes management simple, even for non-technical users. Supports up to five (5) HTTP and HTTP Secure (HTTPS) sessions.

Firmware Update
Provides notification of the latest firmware with the ability to schedule update at a preferred time through Instant On mobile app and cloud-based web portal.

Default DHCP Client Mode
Allows the switch to be directly connected to a network, enabling plug-and-play operation. In the absence of a DHCP server on the network, the switch falls back to the static address 192.168.1.1.

Port Mirroring
Enables traffic on a port or VLAN to be simultaneously sent to a network analyzer for monitoring.

Event Logging and Alerts
Provides detailed information for problem identification and resolution.

Account Management
Allows administrators to add, modify, delete and transfer management accounts and passwords for secure access to Instant cloud management solution.

Locator LED
Allows users to set the locator LED on a specific switch to either turn on, blink, or turn off; simplifies troubleshooting by making it easy to locate a particular switch within a rack of similar switches.

Schedule Configuration
Global Schedule feature can be applied to time-based ACLs, port or interface shutdown, or PoE power delivery; up to 3 schedules can be configured. PoE scheduling allows user to configure a specific day/time of the week (e.g. business hours) for Instant On switches to supply power to connected devices (e.g. surveillance cameras, access points etc.).

Quality of Service (QoS)

Traffic Prioritization
Provides time-sensitive packets (like VoIP and video) with priority over other traffic based on DSCP or IEEE 802.1p classification.

IEEE 802.1p/Q VLAN Tagging
Delivers data to devices based on the priority and type of traffic; supports IEEE 802.1Q.

Class of Service (CoS)
Sets the IEEE 802.1p/DSCP priority to queue mapping
(4 queues). Supports strict priority queuing (SP) or weighted round robin (WRR) queuing. SP and WRR queuing can be configured on individual switch ports.

Advanced Classifier Based QoS
Classifies traffic using multiple match criteria based on Layer 2, 3, and 4 information.

Access Switching

SFP/SFP+ Fiber Connectivity
Provides fiber connections for uplinks and other connections across longer distances than copper cabling can support.
SFP ports are in addition to available copper Ethernet ports, providing a higher total number of available ports. Two (2) SFP 1G ports available on 8-port models and four (4) SFP+ 1G/10G ports on 24-/48 port models.

Standard Features

Ethernet Alliance Certified Class 4 PoE (IEEE 802.3at)
Provides up to 30 W per port, which allows support of the class 4 PoE capable devices such as video IP phones, wireless access points, and advanced pan/tilt/zoom security cameras, as well as any 15.4 W IEEE 802.3af-compliant end device; mitigates the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments.

Auto-PoE Power Configuration
The switch automatically assigns the required power to a port for a PD device based on Link Layer Discovery Protocol (LLDP).

PoE Power Allocation
Support multiple methods (LLDP-MED automatic, class of PoE, or usage-based) to allocate PoE power for more efficient energy savings.

Auto MDI/MDI-X
Adjusts automatically for straight-through or crossover cables on all 10/100/1000 ports.

Network Security

TPM-Based Security
Includes a Trusted Platform Module (TPM) for secure hardware- based generation and storage of cryptographic keys used for secure connection to the Instant On cloud portal.

IEEE 802.1Q VLAN Support
Support for up to 256 VLANs with a VLAN ID range of 2-4093.

IEEE 802.1X Access Control
Authentication of network users on a per port basis prior to permitting network access. Port authentication includes RADIUS assigned VLAN, dynamic VLAN creation, guest VLAN or into an unauthenticated VLAN.

Automatic Denial-of-Service Protection
Monitors for malicious attacks and protects the network by blocking the attacks.

Packet Storm Protection
Protects against unknown unicast, broadcast and multicast storms with user-defined thresholds.

RADIUS
The switch supports RADIUS authentication with primary and backup server configuration.

Automatic VLAN Assignment — RADIUS Assigned VLANs
Automatically assigns users to the appropriate VLAN based on their identity and location.

RADIUS Accounting
A robust set of attributes and statistics are available for collecting information from the switch.

Management VLAN ID
Provides secure management access to administrators in the specified VLAN.

Link Flap Prevention
Minimizes the network disruption by automatically detecting and disabling ports that experience link flap events.

Standard Features

Performance and Efficiency

Energy Efficient Ethernet (EEE)
Compliant with IEEE 802.3az standard requirements to save energy during periods of low data activity.

Auto-Port Shut Down
The switch saves power by automatically shutting down power to inactive ports. Power is restored on a port upon link detection.

Energy Savings Status
The switch provides an estimated cumulative energy savings due to green Ethernet features being enabled.

Energy-Efficient Cooling
Includes variable speed fans operating only at the speed necessary to maintain operating temperature to reduce excess noise and power consumption.

Fan-Less Operation
Fan-less design for 8-port models, 24- and 48-port non-PoE models, making the switches ideal for office deployments.

Switching Features

IEEE 802.3x Flow Control
Provides a flow-throttling mechanism propagated through the network to prevent packet loss at a congested node.

Spanning Tree Protocol (STP)
Supports standard IEEE 802.1D STP, IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) for faster convergence, and IEEE 802.1s Multiple Spanning Tree Protocol (MSTP on local web).

Loop Protection
If the switch detects a loop, it disables the source port from forwarding data packets originating from the switch to avoid broadcast storms.

BPDU Filtering
Drops BPDU packets when STP is enabled globally but disabled on a specific port.

Jumbo Frame Support
Supports up to 9216 bytes frame size to improve the performance of large data transfers.

IGMP Snooping v1/v2
Improves network performance through multicast filtering, instead of flooding traffic on all ports.

Link Aggregation
Groups together multiple ports up to a maximum of eight (8) ports per trunk automatically using Link Aggregation Control Protocol (LACP), or manually, to form a high-bandwidth connection to the network backbone that helps prevent traffic bottlenecks. The 8-port models support 4 trunks, 24-port models support 8 trunks, and 48-port models support 16 trunks.

LLDP/LLDP-MED (Media Endpoint Discovery)
Defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN for automatic configuration of network devices such as IP phones.

Address Resolution Protocol (ARP)
The ARP table displays all of the IP addresses that have been resolved to MAC addresses, either dynamically or through static entry configuration.

Standard Features

Additional Features Accessed Through Local Web-Management Interface

Top Event Dashboard
Provides notifications for critical events and a quick access to the latest log events.

Quick Start-Up and VLAN Wizard
Enables automatic configuring of the initial settings such IP address, device information, and system time. VLAN wizard can be used for setting up initial VLAN IDs and port membership.

Access Control Lists (ACLs)
Enables network traffic filtering by creating an ACL, adds rules and matches criteria to an ACL, and applies the ACL to permit or deny on one or more interfaces or a VLAN. Supports for 50 inbound IPv4 and MAC ACLs with up to 480 ACEs.

IPv6 Host
Enables switches to be managed and deployed at the IPv6 network's edge.

Rate Limiting
Sets and enforces per-port ingress traffic limits based on percentages or packets per second.

Protected Ports
Ports in a port isolation group are restricted from forwarding Layer 2 traffic between ports in that group, providing data privacy and security.

SCP and TFTP File Transfer
Provides different mechanisms for secure file transfer through SCP (Secure Copy Protocol) or TFTP.

Dual Image Support
Provide independent primary and secondary software images for backup while upgrading.

User Account Management
Password strength checking and aging feature provides enhanced security to user account administration to the local web management interface.

Additionally, user account authentication can now be done via RADIUS to access the web-interface.'

Secure Sockets Layer (SSL)
Encrypts all HTTP traffic, secures access to the local browser-based management of the switch.

SNMPv1, v2c, and v3
Facilitates remote management with SNMP management station that discovers and monitors the switch.

Remote Monitoring (RMON)
Provides advanced monitoring and reporting capabilities for statistics, history, alarms and events. RMON data is retrieved from the switch through a network management platform over SNMP.

Cable Diagnostic Tool
Provides the mechanism to detect and report potential cabling issues, such as cable opens or cable shorts on copper links, in addition to providing distance to the fault and total length of cable.

Standard Features

Warranty, Service and Support

HPE Networking Instant On Limited Lifetime Support provides 24X7 phone support for the first 90 days and chat support for the entire warranty period. Community support is included for the life of the product.

Refer to the Hewlett Packard Enterprise website at **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.

Configuration Information

BTO Models

Rule #	Description	SKU
	Ion 1930	
1, 2	HPE Networking Instant On Switch 8p Gigabit 2p SFP 1930 • 8 RJ-45 autosensing 10/100/1000 ports • 2 SFP 1000 Mbps ports (min=0 \ max=2 SFP Transceivers) • 1U - Height (Desktop Model)	JL680A
	Aruba Instant On 1930 8G 2SFP Switch No Loc • No Localized Power Cord Selected	JL680A#AC3
1, 2	HPE Networking Instant On Switch 8p Gigabit CL4 PoE 2p SFP 124W 1930 • 8 RJ-45 autosensing 10/100/1000 Class 4 PoE ports • 2 SFP 1000 Mbps ports (min=0 \ max=2 SFP Transceivers) • 1U - Height	JL681A
	Aruba Instant On 1930 8G Class4 PoE 2SFP 124W Switch PDU • C15 PDU Jumper Cord (NA/MX/TW/JP)	JL681A#B2B
	Aruba Instant On 1930 8G Class4 PoE 2SFP 124W Switch PDU • C15 PDU Jumper Cord (ROW)	JL681A#B2C
	Aruba Instant On 1930 8G Class4 PoE 2SFP 124W Switch No Loc • No Localized Power Cord Selected	JL681A#AC3
1, 2, 3	HPE Networking Instant On Switch 24p Gigabit 4p SFP+ 1930 • 24 RJ-45 autosensing 10/100/1000 ports • 4 SFP/SFP+ 1000/10000 Mbps ports (min=0 \ max=4 SFP/SFP+ Transceivers) • 1U - Height	JL682A
	Aruba Instant On 1930 24G 4SFP+ Switch PDU • C15 PDU Jumper Cord (NA/MX/TW/JP)	JL682A#B2B
	Aruba Instant On 1930 24G 4SFP+ Switch PDU • C15 PDU Jumper Cord (ROW)	JL682A#B2C
	Aruba Instant On 1930 24G 4SFP+ Switch No Loc • No Localized Power Cord Selected	JL682A#AC3
1, 2, 3	HPE Networking Instant On Switch 24p Gigabit CL4 PoE 4p SFP+ 195W 1930 • 24 RJ-45 autosensing 10/100/1000 Class 4 PoE ports • 4 SFP/SFP+ 1000/10000 Mbps ports (min=0 \ max=4 SFP/SFP+ Transceivers) • 1U - Height	JL683B
	Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 195W Switch PDU • C15 PDU Jumper Cord (NA/MX/TW/JP)	JL683B#B2B
	Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 195W Switch PDU • C15 PDU Jumper Cord (ROW)	JL683B#B2B
	Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 195W Switch No Loc • No Localized Power Cord Selected	JL683B#AC3
1, 2, 3	HPE Networking Instant On Switch 24p Gigabit CL4 PoE 4p SFP+ 370W 1930 • 24 RJ-45 autosensing 10/100/1000 Class 4 PoE ports • 4 SFP/SFP+ 1000/10000 Mbps ports (min=0 \ max=4 SFP/SFP+ Transceivers) • 1U - Height	JL684B
	Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 370W Switch PDU • C15 PDU Jumper Cord (NA/MX/TW/JP)	JL684B#B2B

Configuration Information

	Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 370W Switch PDU	JL684B#B2C
	• C15 PDU Jumper Cord (ROW)	
	Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 370W Switch No Loc	JL684B#AC3
	• No Localized Power Cord Selected	
1, 2, 3	Aruba Instant On 1930 48G 4SFP/SFP+ Switch	JL685A
	• 48 RJ-45 autosensing 10/100/1000 ports	
	• 4 SFP/SFP+ 1000/10000 Mbps ports (min=0 \ max=4 SFP/SFP+ Transceivers)	
	• 1U - Height	
	Aruba Instant On 1930 48G 4SFP/SFP+ Switch PDU	JL685A#B2B
	• C15 PDU Jumper Cord (NA/MX/TW/JP)	
	Aruba Instant On 1930 48G 4SFP/SFP+ Switch PDU	JL685A#B2C
	• C15 PDU Jumper Cord (ROW)	
	Aruba Instant On 1930 48G 4SFP/SFP+ Switch No Loc	JL685A#AC3
	• No Localized Power Cord Selected	
1, 2, 3	Aruba Instant On 1930 48G Class4 PoE 4SFP/SFP+ 370W Switch	JL686B
	• 48 RJ-45 autosensing 10/100/1000 Class 4 PoE ports	
	• 4 SFP/SFP+ 1000/10000 Mbps ports (min=0 \ max=4 SFP/SFP+ Transceivers)	
	• 1U - Height	
	Aruba Instant On 1930 48G Class4 PoE 4SFP/SFP+ 370W Switch PDU	JL686B#B2B
	• C15 PDU Jumper Cord (NA/MX/TW/JP)	
	Aruba Instant On 1930 48G Class4 PoE 4SFP/SFP+ 370W Switch PDU	JL686B#B2C
	• C15 PDU Jumper Cord (ROW)	
	Aruba Instant On 1930 48G Class4 PoE 4SFP/SFP+ 370W Switch No Loc	JL686B#AC3
	• No Localized Power Cord Selected	

Configuration Rules

Rule #	Description	SKU
1	Localization (Wall Power Cord) required on orders without B2B or B2C (PDU Power Cord). (See HPN Localization Menu)	
2	The following Transceivers install into this switch:	
	HPE Aruba Networking Instant On 1G SFP LC SX 500m OM2 MMF Transceiver	R9D16A
	HPE Aruba Networking Instant On 1G SFP RJ45 T 100m Cat5e Transceiver	R9D17A
	HPE Networking Instant On 1G LX SFP LC 10km SMF Transceiver	S0G20A
3	The following Transceivers install into this switch:	
	HPE Networking Instant On 10G LR SFP+ LC 10km SMF Transceiver	S0G21A
	HPE Networking Instant On 10GBASE-T RJ45 30m Cat6a Transceiver	S0G18A
	HPE Networking Instant On 10G SFP+ LC SR 300m OM3 MMF Transceiver	R9D18A
	Aruba Instant On 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	R9D19A
	Aruba Instant On 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	R9D20A

Notes:

- Drop down under power supply should offer the following options and results:
  Switch/Router to PDU Power Cord - B2B in NA, Mexico, Taiwan, and Japan or B2C ROW.
  Switch/Router/Power Supply to Wall Power Cord - Localized Option
  No Localized Power Cord Selected - AC3 Option.
- OCA Only Model Selection Form - HPE Aruba Networking > HPE NW Instant On > IOn Switches: 1930 IOn Switch Series

Configuration Information

Transceivers

Remarks	Description	SKU
	SFP Transceivers	
	HPE Networking Instant On 1G LX SFP LC 10km SMF Transceiver	S0G20A
	HPE Networking Instant On 1G SFP LC SX 500m OM2 MMF Transceiver	R9D16A
	HPE Networking Instant On 1G SFP RJ45 100m Cat5e Transceiver	R9D17A
	SFP+ Transceivers	
	HPE Networking Instant On 10G LR SFP+ LC 10km SMF Transceiver	S0G21A
	HPE Networking Instant On 10GBASE-T RJ45 30m Cat6a Transceiver	S0G18A
	HPE Networking Instant On 10G SFP+ LC SR 300m OM3 MMF Transceiver	R9D18A
	HPE Networking Instant On 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	R9D19A
	HPE Networking Instant On 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	R9D20A

Technical Specifications

Aruba Instant On 1930 8G 2SFP Switch (JL680A)		
I/O Ports and Slots	8 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 2 SFP 1GbE ports	
Physical Characteristics	**Dimensions**	10(w) x 6.28(d) x 1.73(h) in (25.4 x 15.95 x 4.39 cm) (1U height)
	Weight	2.55 lb (0.82 kg)
Processor and Memory	ARM Cortex-A9 @ 800 MHz, 512 MB SDRAM, 256 MB flash; packet buffer: 1.5 MB	
Packet Buffer	1.5 MB	
Performance	**100 Mb latency**	< 5.2 uSec
	1000 Mb latency	<3.0 uSec
	10000 Mb latency	n/a
	Throughput (Mpps)	14.88 Mpps
	Capacity	20 Gbps
	Routing table size (# of static entries)	32
	MAC address table size (# of entries)	8,000
	Reliability MTBF (years)	178
Environment	**Operating temperature**	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C)
	Non-operating temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating relative humidity	15% to 95% @ 140°F (60°C)
	Altitude	Up to 10,000ft (3.048 Km)
	Acoustic[1]	Fanless
	Notes: [1]Acoustics measured in 23°C semi-anechoic chamber with a loading of 100% traffic and 50% PoE on all ports. Measured in accordance with ISO 7779. Declared in accordance with ECMA-109:2010. Values presented are the Declared A-Weighted Sound Power Level (LWAd) and the mean Bystander A-Weighted Sound Pressure Level (LpAm)	
Electrical Characteristics	**Frequency**	50-60 Hz
	AC voltage	100-240V
	Current	0.2 A
	Maximum power rating	11.0 W
	Idle power	6.2 W
	PoE power	n/a
	Power supply	External power adapter (included)
Safety	UL 60950-1; IEC 60950-1;EN 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60825-1 UL 62368-1 Ed. 2; IEC 62368-1 Ed. 2; EN 62368-1:2014	
Emissions	VCCI-CISPR 32, Class A; CNS 13438; ICES-003 Issue 6 Class A; FCC CFR 47 Part 15, Class A; EN 55032: 2015 +AC:2016 / CISPR-32, Class A	
Immunity	**Generic**	CISPR 24 / CISPR 35
	EN	EN 55024:2010 / EN 55035:2017
	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

Technical Specifications

	Harmonics	IEC 61000-3-2, EN 61000-3-2
	Flicker	IEC 61000-3-3, EN 61000-3-3
Device Management	Aruba Instant On Cloud; Web browser; SNMP Manager	
Mounting	Supports table-top mounting Supports wall-mounting with ports facing either up or down Supports under-table mounting using base surface mounting holes	
Transceivers		
	Aruba Instant On 1G SFP LC SX 500m OM2 MMF Transceiver (R9D16A) Aruba 1G SFP LC LX 10km SMF Transceiver (J4859D) Aruba Instant On 1G SFP RJ45 T 100m Cat5e Transceiver (R9D17A)	

Aruba Instant On 1930 8G Class4 PoE 2SFP 124W Switch (JL681A)		
I/O Ports and Slots	8 RJ-45 autosensing 10/100/1000 Class 4 PoE 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 2 SFP 1GbE ports	
Physical Characteristics	**Dimensions**	10(w) x 6.28(d) x 1.73(h) in (25.4 x 15.95 x 4.39 cm) (1U height)
	Weight	7.21 lb (1.16 kg)
Processor and Memory	ARM Cortex-A9 @ 800 MHz, 512 MB SDRAM, 256 MB flash; packet buffer: 1.5 MB	
Packet Buffer	1.5 MB	
Performance	**100 Mb latency**	< 5.2 uSec
	1000 Mb latency	<3.0 uSec
	10000 Mb latency	n/a
	Throughput (Mpps)	14.88 Mpps
	Capacity	20 Gbps
	Routing table size (# of static entries)	32
	MAC address table size (# of entries)	8,000
	Reliability MTBF (years)	95
Environment	**Operating temperature**	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C)
	Non-operating temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating relative humidity	15% to 95% @ 140°F (60°C)
	Altitude	Up to 10,000ft (3.048 Km)
	Acoustic[1]	Fanless
	Notes: [1]Acoustics measured in 23°C semi-anechoic chamber with a loading of 100% traffic and 50% PoE on all ports. Measured in accordance with ISO 7779. Declared in accordance with ECMA-109:2010. Values presented are the Declared A-Weighted Sound Power Level (LWAd) and the mean Bystander A-Weighted Sound Pressure Level (LpAm)	
Electrical Characteristics	**Frequency**	50-60 Hz
	AC voltage	100 - 127 / 200 - 240 VAC
	Current	0.8 A/1.6 A
	Maximum power rating	150.2 W
	Idle power	11.7 W
	PoE power	124 W Class 4 PoE
	Power supply	Internal power supply
Safety	UL 60950-1; IEC 60950-1;EN 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60825-1 UL 62368-1 Ed. 2; IEC 62368-1 Ed. 2; EN 62368-1:2014	

Technical Specifications

Emissions	VCCI-CISPR 32, Class A; CNS 13438; ICES-003 Issue 6 Class A; FCC CFR 47 Part 15, Class A; EN 55032: 2015 +AC:2016 / CISPR-32, Class A	
Immunity	**Generic**	CISPR 24 / CISPR 35
	EN	EN 55024:2010 / EN 55035:2017
	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 61000-3-2, EN 61000-3-2
	Flicker	IEC 61000-3-3, EN 61000-3-3
Device Management	Aruba Instant On Cloud; Web browser; SNMP Manager	
Mounting	Mounts in an EIAstandard 19 in. telco rack or equipment cabinet. 2-post rack kit included Supports table-top mounting Supports rackmounting Supports wall-mounting with ports facing either up or down Supports under-table mounting using the brackets provided Supports under-table mounting using base surface mounting holes	
Transceivers		
	Aruba Instant On 1G SFP LC SX 500m OM2 MMF Transceiver (R9D16A) Aruba 1G SFP LC LX 10km SMF Transceiver (J4859D) Aruba Instant On 1G SFP RJ45 T 100m Cat5e Transceiver (R9D17A)	

Aruba Instant On 1930 24G 4SFP/SFP+ Switch (JL682A)		
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	
Physical Characteristics	**Dimensions**	17.42(w) x 8.72(d) x 1.73(h) in (44.25 x 22.15 x 4.39 cm) (1U height)
	Weight	5.32 lb (2.41 kg)
Processor and Memory	ARM Cortex-A9 @ 800 MHz, 512 MB SDRAM, 256 MB flash; packet buffer: 1.5 MB	
Packet Buffer	1.5 MB	
Performance	**100 Mb latency**	< 4.7 uSec
	1000 Mb latency	<2.4 uSec
	10000 Mb latency	<1.3 uSec
	Throughput (Mpps)	95.23 Mpps
	Capacity	128 Gbps
	Routing table size (# of static entries)	32
	MAC address table size (# of entries)	16,000
	Reliability MTBF (years)	158

Technical Specifications

Environment	**Operating temperature**	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C)
	Non-operating temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating relative humidity	15% to 95% @ 140°F (60°C)
	Altitude	Up to 10,000ft (3.048 Km)
	Acoustic[1]	Fanless
	Notes: [1]Acoustics measured in 23°C semi-anechoic chamber with a loading of 100% traffic and 50% PoE on all ports. Measured in accordance with ISO 7779. Declared in accordance with ECMA-109:2010. Values presented are the Declared A-Weighted Sound Power Level (LWAd) and the mean Bystander A-Weighted Sound Pressure Level (LpAm)	
Electrical Characteristics	**Frequency**	50-60 Hz
	AC voltage	100-240V
	Current	0.5 A /0.3 A
	Maximum power rating	22.6 W
	Idle power	9.3 W
	PoE power	n/a
	Power supply	Internal power supply
Safety	UL 60950-1; IEC 60950-1;EN 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60825-1 UL 62368-1 Ed. 2; IEC 62368-1 Ed. 2; EN 62368-1:2014	
Emissions	VCCI-CISPR 32, Class A; CNS 13438; ICES-003 Issue 6 Class A; FCC CFR 47 Part 15, Class A; EN 55032: 2015 +AC:2016 / CISPR-32, Class A	
Immunity	**Generic**	CISPR 24 / CISPR 35
	EN	EN 55024:2010 / EN 55035:2017
	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 61000-3-2, EN 61000-3-2
	Flicker	IEC 61000-3-3, EN 61000-3-3
Device Management	Aruba Instant On Cloud; Web browser; SNMP Manager	
Mounting	Mounts in an EIAstandard 19 in. telco rack or equipment cabinet. 2-post rack kit included Supports table-top mounting Supports rackmounting Supports wall-mounting with ports facing either up or down Supports under-table mounting using the brackets provided Must be mounted top surface up. To prevent possible impact to longterm reliability, product should not be mounted	
Transceivers		
	Aruba Instant On 1G SFP LC SX 500m OM2 MMF Transceiver (R9D16A) Aruba 1G SFP LC LX 10km SMF Transceiver (J4859D) Aruba Instant On 1G SFP RJ45 T 100m Cat5e Transceiver (R9D17A) Aruba Instant On 10G SFP+ LC SR 300m OM3 MMF Transceiver (R9D18A) Aruba 10G SFP+ LC LR 10km SMF Transceiver (J9151E) Aruba Instant On 10G SFP+ to SFP+ 1m DAC (R9D19A) Aruba Instant On 10G SFP+ to SFP+ 3m DAC (R9D20A)	

Technical Specifications

Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 195W Switch (JL683B)		
I/O Ports and Slots	24 RJ-45 autosensing 10/100/1000 Class 4 PoE 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	
Physical Characteristics	**Dimensions**	17.42(w) x 10.42(d) x 1.73(h) in (44.25 x 26.47 x 4.39 cm) (1U height)
	Weight	7.69lb (3.49kg)
Processor and Memory	ARM Cortex-A9 @ 800 MHz, 512 MB SDRAM, 256 MB flash; packet buffer: 1.5 MB	
Packet Buffer	1.5 MB	
Performance	**100 Mb latency**	< 4.7 uSec
	1000 Mb latency	<2.4 uSec
	10000 Mb latency	<1.3 uSec
	Throughput (Mpps)	95.23 Mpps
	Capacity	128 Gbps
	Routing table size (# of static entries)	32
	MAC address table size (# of entries)	16,000
	Reliability MTBF (years)	76
Environment	**Operating temperature**	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C)
	Non-operating temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating relative humidity	15% to 95% @ 140°F (60°C)
	Altitude	Up to 10,000ft (3.048 Km)
	Acoustic[1]	LWAd = 3.9 Bel LpAm (Bystander) = 25 dB
	Notes: [1]Acoustics measured in 23°C semi-anechoic chamber with a loading of 100% traffic and 50% PoE on all ports. Measured in accordance with ISO 7779. Declared in accordance with ECMA-109:2010. Values presented are the Declared A-Weighted Sound Power Level (LWAd) and the mean Bystander A-Weighted Sound Pressure Level (LpAm)	
Electrical Characteristics	**Frequency**	50-60 Hz
	AC voltage	100 - 127 / 200 - 240 VAC
	Current	2.8 A/1.4 A
	Maximum power rating	248.7W
	Idle power	19.7W
	PoE power	195 W Class 4 PoE
	Power supply	Internal power supply
Safety	UL 60950-1; IEC 60950-1;EN 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60825-1 UL 62368-1 Ed. 2; IEC 62368-1 Ed. 2; EN 62368-1:2014	
Emissions	VCCI-CISPR 32, Class A; CNS 13438; ICES-003 Issue 6 Class A; FCC CFR 47 Part 15, Class A; EN 55032: 2015 +AC:2016 / CISPR-32, Class A	
Immunity	**Generic**	CISPR 24 / CISPR 35
	EN	EN 55024:2010 / EN 55035:2017
	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 61000-3-2, EN 61000-3-2
	Flicker	IEC 61000-3-3, EN 61000-3-3
Device Management	Aruba Instant On Cloud; Web browser; SNMP Manager	
Mounting	Mounts in an EIAstandard 19 in. telco rack or equipment cabinet. 2-post rack kit included Supports table-top mounting Supports rackmounting Supports wall-mounting with ports facing either up or down Supports under-table mounting using the brackets provided	
Transceivers		
	Aruba Instant On 1G SFP LC SX 500m OM2 MMF Transceiver (R9D16A) Aruba 1G SFP LC LX 10km SMF Transceiver (J4859D) Aruba Instant On 1G SFP RJ45 T 100m Cat5e Transceiver (R9D17A) Aruba Instant On 10G SFP+ LC SR 300m OM3 MMF Transceiver (R9D18A) Aruba 10G SFP+ LC LR 10km SMF Transceiver (J9151E) Aruba Instant On 10G SFP+ to SFP+ 1m DAC (R9D19A) Aruba Instant On 10G SFP+ to SFP+ 3m DAC (R9D20A)	

Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 370W Switch (JL684B)		
I/O Ports and Slots	24 RJ-45 autosensing 10/100/1000 Class 4 PoE 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	
Physical Characteristics	**Dimensions**	17.42(w) x 10.42(d) x 1.73(h) in (44.25 x 26.47 x 4.39 cm) (1U height)
	Weight	8.23 lb (3.73 kg)
Processor and Memory	ARM Cortex-A9 @ 800 MHz, 512 MB SDRAM, 256 MB flash; packet buffer: 1.5 MB	
Memory And Flash	512 MB SDRAM 256 MB flash	
Packet Buffer	1.5 MB	
Performance	**100 Mb latency**	< 4.7 uSec
	1000 Mb latency	<2.4 uSec
	10000 Mb latency	<1.3 uSec
	Throughput (Mpps)	95.23 Mpps
	Capacity	128 Gbps
	Routing table size (# of static entries)	32
	MAC address table size (# of entries)	16,000
	Reliability MTBF (years)	71
Environment	**Operating temperature**	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C)
	Non-operating temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating relative humidity	15% to 95% @ 140°F (60°C)
	Altitude	Up to 10,000ft (3.048 Km)
	Acoustic[1]	LWAd = 4.0 Bel LpAm (Bystander) = 24 dB
	Notes: [1]Acoustics measured in 23°C semi-anechoic chamber with a loading of 100% traffic and 50% PoE on all ports. Measured in accordance with ISO 7779. Declared in accordance with ECMA-109:2010. Values presented are the Declared A-Weighted Sound Power Level (LWAd) and the mean Bystander A-Weighted Sound Pressure Level (LpAm)	

Technical Specifications

Electrical Characteristics	**Frequency**	50-60 Hz
	AC voltage	100 - 127 / 200 - 240 VAC
	Current	4.9 A/2.4 A
	Maximum power rating	440.4W
	Idle power	20.3W
	PoE power	370 W Class 4 PoE
	Power supply	Internal power supply
Safety	UL 60950-1; IEC 60950-1;EN 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60825-1 UL 62368-1 Ed. 2; IEC 62368-1 Ed. 2; EN 62368-1:2014	
Emissions	VCCI-CISPR 32, Class A; CNS 13438; ICES-003 Issue 6 Class A; FCC CFR 47 Part 15, Class A; EN 55032: 2015 +AC:2016 / CISPR-32, Class A	
Immunity	**Generic**	CISPR 24 / CISPR 35
	EN	EN 55024:2010 / EN 55035:2017
	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 61000-3-2, EN 61000-3-2
	Flicker	IEC 61000-3-3, EN 61000-3-3
Device Management	Aruba Instant On Cloud; Web browser; SNMP Manager	
Mounting	Mounts in an EIAstandard 19 in. telco rack or equipment cabinet. 2-post rack kit included Supports table-top mounting Supports rackmounting Supports wall-mounting with ports facing either up or down Supports under-table mounting using the brackets provided	
Transceivers		
	Aruba Instant On 1G SFP LC SX 500m OM2 MMF Transceiver (R9D16A) Aruba 1G SFP LC LX 10km SMF Transceiver (J4859D) Aruba Instant On 1G SFP RJ45 T 100m Cat5e Transceiver (R9D17A) Aruba Instant On 10G SFP+ LC SR 300m OM3 MMF Transceiver (R9D18A) Aruba 10G SFP+ LC LR 10km SMF Transceiver (J9151E)	

Aruba Instant On 1930 48G 4SFP/SFP+ Switch (JL685A)		
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	
Physical Characteristics	**Dimensions**	17.42(w) x 11.12(d) x 1.73(h) in (44.25 x 28.24 x 4.39 cm) (1U height)
	Weight	6.91 lb (3.13 kg)
CPU	ARM Cortex-A9 @ 800 MHz	
Memory And Flash	512 MB SDRAM 256 MB flash	
Packet Buffer	1.5 MB	
Performance	**100 Mb latency**	< 4.5 uSec
	1000 Mb latency	<2.2 uSec
	10000 Mb latency	<1.2 uSec
	Throughput (Mpps)	130.95 Mpps

Technical Specifications

	Capacity	176 Gbps
	Routing table size (# of static entries)	32
	MAC address table size (# of entries)	16,000
	Reliability MTBF (years)	114
Environment	**Operating temperature**	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C)
	Non-operating temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating relative humidity	15% to 95% @ 140°F (60°C)
	Altitude	Up to 10,000ft (3.048 Km)
	Acoustic[1]	Fanless
	Notes: [1]Acoustics measured in 23°C semi-anechoic chamber with a loading of 100% traffic and 50% PoE on all ports. Measured in accordance with ISO 7779. Declared in accordance with ECMA-109:2010. Values presented are the Declared A-Weighted Sound Power Level (LWAd) and the mean Bystander A-Weighted Sound Pressure Level (LpAm)	
Electrical Characteristics	**Frequency**	50-60 Hz
	AC voltage	100 - 127 / 200 - 240 VAC
	Current	.8 A/.5 A
	Maximum power rating	36.9 W
	Idle power	16.8 W
	PoE power	n/a
	Power supply	Internal power supply
Safety	UL 60950-1; IEC 60950-1;EN 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60825-1 UL 62368-1 Ed. 2; IEC 62368-1 Ed. 2; EN 62368-1:2014	
Emissions	VCCI-CISPR 32, Class A; CNS 13438; ICES-003 Issue 6 Class A; FCC CFR 47 Part 15, Class A; EN 55032: 2015 +AC:2016 / CISPR-32, Class A	
Immunity	**Generic**	CISPR 24 / CISPR 35
	EN	EN 55024:2010 / EN 55035:2017
	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 61000-3-2, EN 61000-3-2
	Flicker	IEC 61000-3-3, EN 61000-3-3
Device Management	Aruba Instant On Cloud; Web browser; SNMP Manager	
Mounting	Mounts in an EIAstandard 19 in. telco rack or equipment cabinet. 2-post rack kit included Supports table-top mounting Supports rackmounting Supports wall-mounting with ports facing either up or down Supports under-table mounting using the brackets provided Must be mounted top surface up. To prevent possible impact to longterm reliability, product should not be mounted upside-down	
Transceivers	Aruba Instant On 1G SFP LC SX 500m OM2 MMF Transceiver (R9D16A) Aruba 1G SFP LC LX 10km SMF Transceiver (J4859D) Aruba Instant On 1G SFP RJ45 T 100m Cat5e Transceiver (R9D17A) Aruba Instant On 10G SFP+ LC SR 300m OM3 MMF Transceiver (R9D18A) Aruba 10G SFP+ LC LR 10km SMF Transceiver (J9151E)	

Technical Specifications

Aruba Instant On 1930 48G Class4 PoE 4SFP/SFP+ 370W Switch (JL686B)		
I/O Ports and Slots	48 RJ-45 autosensing 10/100/1000 Class 4 PoE 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	
Physical Characteristics	**Dimensions**	17.42(w) x 12.7(d) x 1.73(h) in (44.25 x 32.26 x 4.39 cm) (1U height)
	Weight	10.12 lb (4.59 kg)
CPU	ARM Cortex-A9 @ 800 MHz	
Memory And Flash	512 MB SDRAM 256 MB flash	
Packet Buffer	1.5 MB	
Performance	**100 Mb latency**	< 4.5 uSec
	1000 Mb latency	<2.2 uSec
	10000 Mb latency	<1.2 uSec
	Throughput (Mpps)	130.95 Mpps
	Capacity	176 Gbps
	Routing table size (# of static entries)	32
	MAC address table size (# of entries)	16,000
	Reliability MTBF (years)	114
Environment	**Operating temperature**	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C)
	Non-operating temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating relative humidity	15% to 95% @ 140°F (60°C)
	Altitude	Up to 10,000ft (3.048 Km)
	Acoustic[1]	LWAd = 3.7 Bel LpAm (Bystander) = 29 dB
	Notes: [1]Acoustics measured in 23°C semi-anechoic chamber with a loading of 100% traffic and 50% PoE on all ports. Measured in accordance with ISO 7779. Declared in accordance with ECMA-109:2010. Values presented are the Declared A-Weighted Sound Power Level (LWAd) and the mean Bystander A-Weighted Sound Pressure Level (LpAm)	
Electrical Characteristics	**Frequency**	50-60 Hz
	AC voltage	100 - 127 / 200 - 240 VAC
	Current	5.2 A/2.6 A
	Maximum power rating	465.6W
	Idle power	38.3W
	PoE power	370 W Class 4 PoE
	Power supply	Internal power supply
Safety	UL 60950-1; IEC 60950-1;EN 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60825-1 UL 62368-1 Ed. 2; IEC 62368-1 Ed. 2; EN 62368-1:2014	
Emissions	VCCI-CISPR 32, Class A; CNS 13438; ICES-003 Issue 6 Class A; FCC CFR 47 Part 15, Class A; EN 55032: 2015 +AC:2016 / CISPR-32, Class A	

Technical Specifications

Immunity	**Generic**	CISPR 24 / CISPR 35
	EN	EN 55024:2010 / EN 55035:2017
	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 61000-3-2, EN 61000-3-2
	Flicker	IEC 61000-3-3, EN 61000-3-3
Device Management	Aruba Instant On Cloud; Web browser; SNMP Manager	
Mounting	Mounts in an EIAstandard 19 in. telco rack or equipment cabinet. 2-post rack kit included Supports table-top mounting Supports rackmounting Supports wall-mounting with ports facing either up or down Supports under-table mounting using the brackets provided	
Transceivers		
	Aruba Instant On 1G SFP LC SX 500m OM2 MMF Transceiver (R9D16A) Aruba 1G SFP LC LX 10km SMF Transceiver (J4859D) Aruba Instant On 1G SFP RJ45 T 100m Cat5e Transceiver (R9D17A) Aruba Instant On 10G SFP+ LC SR 300m OM3 MMF Transceiver (R9D18A) Aruba 10G SFP+ LC LR 10km SMF Transceiver (J9151E)	

Standards and Protocols (applies to all products in series)

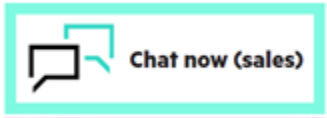
- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3z 1000BASE-X
- IEEE 802.2af PoE 1 (PoE models only)
- IEEE 802.3at PoE 1 (PoE models only)
- IEEE 802.3x Flow control
- IEEE 802.1Q VLANS
- IEEE 802.1p Priority
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- IEEE 802.1X Port Access Authentication
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 802.1D: Spanning Tree Protocol
- IEEE 802.1W: Rapid Spanning Tree Protocol
- IEEE 802.1S: Multiple Spanning Tree Protocol
- IEEE 802.1AB Link Layer Discovery Protocol
- Denial of service protection
- CPU DoS protection

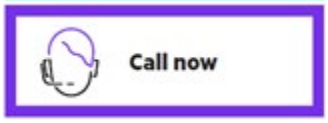
Summary of Changes

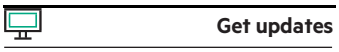
Date	Version History	Action	Description of Change
03-Jun-2024	Version 9	Changed	Configuration Information section was updated.
01-Apr-2024	Version 8	Changed	Configuration Information section was updated.
04-Dec-2023	Version 7	Changed	Series name was updated.
03-Oct-2022	Version 6	Changed	Standard Features, Configuration Information and Technical Specifications sections were updated.
01-Aug-2022	Version 5	Changed	Configuration Information and Technical Specifications sections were updated.
04-Apr-2022	Version 4	Changed	Configuration Information and Technical Specifications sections were updated.
07-Feb-2022	Version 3	Changed	Configuration Information and Technical Specifications sections were updated.
15-Jun-2020	Version 2	Changed	Configuration Information section was updated.
01-Jun-2020	Version 1	New	New QuickSpecs

Copyright

Make the right purchase decision.
Contact our presales specialists.







Hewlett Packard Enterprise

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

a50000620enw - 16612 - Worldwide - V9 - 03-June-2024