QuickSpecs

Overview

HPE OfficeConnect 1920S Switch Series





Models

HPE OfficeConnect 1920S 8G Switch	JL380A
HPE OfficeConnect 1920S 24G 2SFP Switch	JL381A
HPE OfficeConnect 1920S 48G 4SFP Switch	JL382A
HPE OfficeConnect 1920S 8G PPoE+ 65W Switch	JL383A
HPE OfficeConnect 1920S 24G 2SFP PPoE+ 185W Switch	JL384A
HPE OfficeConnect 1920S 24G 2SFP PoE+ 370W Switch	JL385A
HPE OfficeConnect 1920S 48G 4SFP PPoE+ 370W Switch	JL386A

Key features

- Customized operation using intuitive Web interface
- Layer 3 static routing with 32 routes for network segmentation and expansion
- Access control lists for granular security control
- Spanning Tree Protocol: STP, RSTP, and MSTP
- 8-, 24- and 48-port non-PoE+ models are fanless for quiet operation





• HPE Limited Lifetime warranty

Product overview

The HPE OfficeConnect 1920S Switch Series consists of advanced smart-managed fixed-configuration Gigabit switches designed for small businesses in an easy-to-administer solution.

The series consists of seven switches including 8- 24- and 48-port Gigabit Ethernet switches and 8-, 24- and 48-port PoE+ models of which half the ports are POE+ capable. An additional 24-port PoE+ model is available that provides PoE+ on all 24-ports. All ports provide non-blocking Gigabit per performance. Some models include SFP ports for fiber connectivity and the 8-, 24- and 48-port non PoE+ models are fanless, making them ideal for office deployments. All HPE OfficeConnect 1920S Switches support flexible installation options, including mounting on wall, under table, or on desktop. The 8-port Gigabit Ethernet model can be powered by an upstream Power over Ethernet switch for environments where no lline power is available.

The series is part of the OfficeConnect portfolio of Hewlett Packard Enterprise small business networking products. These switches provide a great value, and includes features to satisfy even the most advanced small business networks. Customizable features include basic Layer 2 features like VLANs and link aggregation, as well as advanced features such as Layer 3 static routing, IPv4 and IPv6 Host mode, ACLs, and Spanning Tree Protocols. HPE OfficeConnect 1920S Switch Series includes a Limited Lifetime Warranty.

Features and benefits

Management

Simple Web management

Allows for easy management of the switch—even by nontechnical users—through an intuitive Web GUI; supports HTTP and HTTP Secure (HTTPS)

SNMPv1, v2c, and v3

Facilitate management of the switch, as the device can be discovered and monitored from an SNMP management station

• Complete session logging

Provides detailed information for problem identification and resolution

Port mirroring

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

Dual flash images

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

Network Time Protocol (NTP)

Synchronizes timekeeping among distributed time servers; keeps timekeeping consistent among all clock-dependent devices within the network so that the devices can provide diverse applications based on the consistent time

Manual network time configuration

Manually set the date and time on the switch in the absence of an NTP server

Default DHCP client mode

Allows the switch to be directly connected to a network, enabling plug-and-play operation; in absence of a DHCP server on the network, the switch falls back to the static address 192.168.1.1

FTP and TFTP

Provides different mechanisms for configuration updates; FTP allows bidirectional transfers over a TCP/IP network; trivial FTP (TFTP) is a simpler method using user Datagram Protocol (UDP)

• Remote monitoring (RMON)

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.

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; packets are mapped to six hardware queues for more effective throughput

• IEEE 802.1p/Q VLAN tagging

Delivers data to devices based on the priority and type of traffic; supports IEEE 802.1Q

• Advanced classifier based QoS

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

• Packet storm protection

Protects against unknown unicast, broadcast and multicast storms with user-defined thresholds

Rate limiting

Sets per-port ingress enforced maximums or percent minimum bandwidth per queue

• 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 or source port

Powerful QoS feature

Supports the following congestion actions: strict priority queuing (SP) or weighted round robin (WRR) queuing. SP and WRR queuing can be configured on individual switch ports.

Connectivity

IPv6 host

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

• IEEE 802.3X Flow Control

Provides a flow throttling mechanism propagated through the network to prevent packet loss at a congested node

• IEEE 802.3at Power over Ethernet (PoE+)

Provides up to 30 W per port, which allows support of the latest 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

PoE+ port availability

Ports 1–4 are PoE/PoE+ capable on the HPE OfficeConnect 1920S 8G PPoE+ 65W switch; ports 1–12 are PoE/PoE+ capable on the HPE OfficeConnect 1920S 24G 2SFP PPoE+ 185W switch; all ports provide PoE/PoE+ on the HPE OfficeConnect 1920S 24G 2SFP PoE+ 370W switch; ports 1–24 are PoE/PoE+ capable on the HPE OfficeConnect 1920S 48G 4SFP PPoE+ 370W switch

• 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). Optionally, the switch permits manual, per port, PoE power configuration

• PoE shut down mode

A PoE scheduler provides the ability to define the hours of PoE power being supplied to a group of switch ports based on a 24-hour day. The scheduler enables the flexibility to select individual days of a week as well as reoccurrence on a weekly basis with a start and end date.

PoE power allocation

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

• SPF ports for 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 SFP ports available on 24 and four SFP ports on 48 port models

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

Auto MDI/MDI-X

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



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 by the switch

Security

• Access Control Lists (ACLs)

Enables network traffic filtering by creating an ACL, add rules and match criteria to an ACL, and apply the ACL to permit or deny on one or more interfaces or a VLAN. Up to 50 inbound entries may be configured based on IPv4 source and destination IP and MAC address, Layer 4 ports and protocol type of the IPv4 packet.

RADIUS

The switch support RADIUS authentication and configuration of up to 8 RADIUS servers

RADIUS Accounting

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

• IEEE 802.1X access control

Authentication of network users on a per port basis prior to permitting network access. Port VLAN includes RADIUS VLAN assignment, dynamic VLAN creation, guest VLAN or into an unauthenticated VLAN.

• Switch 802.1X supplicant

Enables the switch to authenticate itself to a RADIUS server

Port isolation

Ports in a port isolation group are restricted from forwarding Layer 2 traffic between ports in that group; provides data privacy and security

• Automatic denial-of-service protection

Monitors for malicious attacks and protects the network by blocking the attacks

Management password

Provides security so that only authorized access to the Web browser interface is allowed

• Secure Sockets Layer (SSL)

Encrypts all HTTP traffic, secure access to the browser-based management of the switch

Performance

Half-and full-duplex auto-negotiating capability on every port

doubles the throughput of every port

• 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

IGMP snooping

Improves network performance through multicast filtering, instead of flooding traffic on all ports

SFP fiber uplinks

Provides greater distance connectivity using Gigabit fiber uplinks

Layer 2 switching

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)



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

VLAN support and tagging

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

Layer 3 services

Address Resolution Protocol (ARP)

Displays the MAC address of another IP host in the same subnet; supports static ARPs; proxy ARP allows normal ARP operation between subnets or when subnets are separated by a Layer 2 network

DHCP relay

Simplifies management of DHCP addresses in networks with multiple subnets

Layer 3 routing

• Static IPv4 routing

Provides basic routing supporting up to 32 static routes to allow manual routing configuration

• Link aggregation

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

Convergence

• LLDP-MED (Media Endpoint Discovery)

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

Auto voice VLAN

Recognizes IP phones and automatically assigns voice traffic to dedicated VLAN for IP phones

Warranty and support

• Limited Lifetime Warranty

See http://www.hpe.com/officeconnect/support for warranty and support information included with your product purchase.



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.

Shippable solution.	
HPE OfficeConnect 1920S 8G Switch 8 RJ-45 autosensing 10/100/1000 ports 1U - Height (Desktop Model)	JL380A See Configuration NOTE: 2
No Power Cord • No Localized Power Cord Selected	JL380A#AC3
 HPE OfficeConnect 1920S 8G PPoE+ 65W Switch 4 RJ-45 autosensing 10/100/1000 PoE+ ports 4 RJ-45 autosensing 10/100/1000 ports 1U - Height (Desktop Model) 	JL383A See Configuration NOTE: 2
PDU Cable NA/MX/TW/JP • C15 PDU Jumper Cord (NA/MX/TW/JP)	JL383A#B2B
PDU Cable ROW • C15 PDU Jumper Cord (ROW)	JL383A#B2C
No Power Cord • No Localized Power Cord Selected	JL383A#AC3
HPE OfficeConnect 1920S 24G 2SFP Switch • 24 RJ-45 autosensing 10/100/1000 ports • 2 SFP 100/1000 Mbps ports (min=0 \ max=2 SFP Transceivers) • 1U - Height	JL381A See Configuration NOTE: 2, 3
PDU Cable NA/MX/TW/JP • C15 PDU Jumper Cord (NA/MX/TW/JP)	JL381A#B2B
PDU Cable ROW • C15 PDU Jumper Cord (ROW)	JL381A#B2C
No Power Cord • No Localized Power Cord Selected	JL381A#AC3
 HPE OfficeConnect 1920S 24G 2SFP PPoE+ 185W Switch 12 RJ-45 autosensing 10/100/1000 PoE+ ports 12 RJ-45 autosensing 10/100/1000 ports 2 SFP 100/1000 Mbps ports (min=0 \ max=2 SFP Transceivers) 1U - Height 	JL384A See Configuration NOTE: 2, 3

PDU Cable NA/MX/TW/JP

JL384A#B2B

• C15 PDU Jumper Cord (NA/MX/TW/JP)



PDU Cable ROW JL384A#B2C • C15 PDU Jumper Cord (ROW) No Power Cord JI 384A#AC3 No Localized Power Cord Selected HPE OfficeConnect 1920S 24G 2SFP PoE+ 370W Switch JL385A See Configuration • 24 RJ-45 autosensing 10/100/1000 PoE+ ports **NOTE:**2, 3 • 2 SFP 100/1000 Mbps ports (min=0 \ max=2 SFP Transceivers) • 1U - Height PDU Cable NA/MX/TW/JP JL385A#B2B • C15 PDU Jumper Cord (NA/MX/TW/JP) PDU Cable ROW JL385A#B2C • C15 PDU Jumper Cord (ROW) No Power Cord JL385A#AC3 No Localized Power Cord Selected HPE OfficeConnect 1920S 48G 4SFP Switch JL382A See Configuration • 48 RJ-45 autosensing 10/100/1000 ports **NOTE:**2. 3 • 4 SFP 100/1000 Mbps ports (min=0 \ max=4 SFP Transceivers) • 1U - Height PDU Cable NA/MX/TW/JP JL382A#B2B C15 PDU Jumper Cord (NA/MX/TW/JP) PDU Cable ROW JL382A#B2C • C15 PDU Jumper Cord (ROW) No Power Cord JL382A#AC3 No Localized Power Cord Selected HPE OfficeConnect 1920S 48G 4SFP PPoE+ 370W Switch JL386A See Configuration • 24 RJ-45 autosensing 10/100/1000 PoE+ ports **NOTE:**2.3 • 24 RJ-45 autosensing 10/100/1000 ports 4 SFP 100/1000 Mbps ports (min=0 \ max=4 SFP Transceivers) • 1U - Height PDU Cable NA/MX/TW/JP JL386A#B2B C15 PDU Jumper Cord (NA/MX/TW/JP) PDU Cable ROW JL386A#B2C

No Power Cord

• No Localized Power Cord Selected

• C15 PDU Jumper Cord (ROW)

JL386A#AC3



Configuration Rules:

Note 2 Localization (Wall Power Cord) required on orders without #B2B or #B2C (PDU Power Cord). (See

Localization Menu)

Note 3 The following Transceivers install into this switch:

Aruba 100M SFP LC FX 2km MMF XCVR

Aruba 1G SFP LC SX 500m MMF XCVR

J4858D

Aruba 1G SFP LC LX 10km SMF XCVR

J4859D

Aruba 1G SFP RJ45 T 100m Cat5e XCVR

J8177D

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

Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or

#B2C ROW. (Watson Default B2B or B2C for Rack Level CTO)

Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box

Level CTO)

OCA Only Model Selection Form -

HPE Offering > Aruba > OfficeConnect - Smart Web Managed Switch:

OfficeConnect 1920S Switch Series

Rack Level Integration CTO Models

HPE OfficeConnect 1920S 24G 2SEP Switch

JL381A

24 RJ-45 autosensing 10/100/1000 ports
 2 SFP 100/1000 Mbps ports (min=0 \ max=2 SFP Transceivers)
 NOTE: 1, 2, 3

• 1U - Height

PDU Cable NA/MX/TW/JP

JL381A#B2B

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

PDU Cable ROW JL381A#B2C

• C15 PDU Jumper Cord (ROW)

No Power Cord JL381A#AC3

• No Localized Power Cord Selected

HPE OfficeConnect 1920S 24G 2SFP PPoE+ 185W Switch JL384A

12 RJ-45 autosensing 10/100/1000 PoE+ ports
 12 RJ-45 autosensing 10/100/1000 ports
 NOTE: 1, 2, 3

• 2 SFP 100/1000 Mbps ports (min=0 \ max=2 SFP Transceivers)

1U - Height

PDU Cable NA/MX/TW/JP JL384A#B2B

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

PDU Cable ROW JL384A#B2C

• C15 PDU Jumper Cord (ROW)



No Power Cord JL384A#AC3 No Localized Power Cord Selected HPE OfficeConnect 1920S 24G 2SFP PoE+ 370W Switch JL385A See Configuration 24 RJ-45 autosensing 10/100/1000 PoE+ ports **NOTE:** 1, 2, 3 2 SFP 100/1000 Mbps ports (min=0 \ max=2 SFP Transceivers) • 1U - Height PDU Cable NA/MX/TW/JP JL385A#B2B • C15 PDU Jumper Cord (NA/MX/TW/JP) JL385A#B2C PDU Cable ROW • C15 PDU Jumper Cord (ROW) No Power Cord JL385A#AC3 No Localized Power Cord Selected HPE OfficeConnect 1920S 48G 4SFP Switch JL382A See Configuration 48 RJ-45 autosensing 10/100/1000 ports **NOTE:** 1, 2, 3 • 4 SFP 100/1000 Mbps ports (min=0 \ max=4 SFP Transceivers) 1U - Height PDU Cable NA/MX/TW/JP JL382A#B2B • C15 PDU Jumper Cord (NA/MX/TW/JP) PDU Cable ROW JL382A#B2C • C15 PDU Jumper Cord (ROW) No Power Cord JL382A#AC3 No Localized Power Cord Selected HPE OfficeConnect 1920S 48G 4SFP PPoE+ 370W Switch JL386A See Configuration 24 RJ-45 autosensing 10/100/1000 PoE+ ports **NOTE:** 1. 2. 3 • 24 RJ-45 autosensing 10/100/1000 ports • 4 SFP 100/1000 Mbps ports (min=0 \ max=4 SFP Transceivers) • 1U - Height PDU Cable NA/MX/TW/JP JL386A#B2B • C15 PDU Jumper Cord (NA/MX/TW/JP)

PDU Cable ROW JL386A#B2C

• C15 PDU Jumper Cord (ROW)

No Power Cord JL386A#AC3

No Localized Power Cord Selected



Note 1 The following Transceivers install into this switch:

Aruba 100M SFP LC FX 2km MMF XCVR

Aruba 1G SFP LC SX 500m MMF XCVR

Aruba 1G SFP LC LX 10km SMF XCVR

J4858D

Aruba 1G SFP RJ45 T 100m Cat5e XCVR

J8177D

Note 2 Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord). (See

Localization Menu)

REMARK: When Switches/Routers are Factory Racked, Then #B2B, or #B2C should be the Defaulted Power

Cable option on the Switches/Routers. #AC3 No Localized Power Cord Selected

Note 3 If this switch is factory installed in any HP Racks, Then the J9583A#0D1 is required.

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

Transceivers

SFP Transceivers

Aruba 100M SFP LC FX 2km MMF Transceiver	J9054D
Aruba 1G SFP LC LX 10km SMF Transceiver	J4859D
Aruba 1G SFP LC SX 500m OM2 MMF Transceiver	J4858D
Aruba 1G SFP RJ45 T 100m Cat5e Transceiver	J8177D

Switch Enclosure Options

Rack Mount Kit

HPE X410 1U Univ 4-post RM Kit

Supported on JL381A, JL382A, JL384A, JL385A, JL386A

J9583A See Configuration

NOTE: 1

Configuration Rules:

Note 1 If this Mounting Kit is order with #0D1 then it integrates to the HPE Network Rack. (not the switch)



HPE OfficeConnect 1920S 8G Switch (JL380A)

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

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 1.81 lb (0.82 kg)

Memory and processor ARM Cortex-A9 @ 400 MHz, 256 MB SDRAM, 64 MB flash; packet buffer: 1.5 MB

Performance 100 Mb Latency $< 7.0 \mu s$

1000 Mb Latency $< 2.4 \mu s$

Throughput up to 11.9 Mpps

Routing/Switching

capacity

16 Gbps

Routing table size 32 entries **MAC address table size** 8,000 entries

Reliability MTBF (years) 144.9

Environment Operating temperature 32°F to 104°F (0°C to 40°C)

Operating relative

15% to 95% @ 104°F (40°C)

humidity

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

15% to 95% @ 140°F (60°C)

Altitude up to 10,000 ft (3 km)

Acoustic Power: 0 dB no fan

Electrical characteristics Frequency 50/60 Hz

AC Voltage 100 - 240 VAC

Current .2 A Maximum power rating 9.5 W Idle power 8.2 W

Safety UL 60950-1; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60825-1

Emissions VCCI Class A; CNS 13438; ICES-003 Issue 5 Class A; FCC CFR 47 Part 15, Class A; EN 55032:

2015/CISPR-32

Immunity Generic EN 55024, CISPR 24

EN 55024, 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
 IEC 61000-4-8

magnetic field



Voltage dips and

IEC 61000-4-11

interruptions

Harmonics EN 61000-3-2, IEC 61000-3-2 **Flicker** EN 61000-3-3, IEC 61000-3-3

Device Management

Web browser

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 OfficeConnect 1920S 24G 2SFP Switch (JL381A)

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

2 SFP 100/1000 Mbps ports (IEEE 802.3z Type 1000BASE-X, IEEE 802.3u Type 100BASE-FX)

Physical characteristics Dimensions 17.42(w) x 9.69(d) x 1.73(h) in

(44.25 x 24.61 x 4.39 cm) (1U height)

ARM Cortex-A9 @ 400 MHz, 256 MB SDRAM, 64 MB flash; packet buffer: 1.5 MB

Weight 6 lb (2.72 kg)

Memory and processor

Performance

100 Mb Latency $< 7.0 \mu s$

1000 Mb Latency $< 2.0 \mu s$

Throughput up to 38.6 Mpps

Routing/Switching

52 Gbps

capacity

Routing table size

32 entries

MAC address table size

8,000 entries

Reliability

MTBF (years) 80

Environment Operating temperature 32°F to 104°F (0°C to 40°C)

Operating relative

humidity

15% to 95% @ 104°F (40°C)

Nonoperating/Storage

-40°F to 158°F (-40°C to 70°C)

temperature Nonoperating/Storage

relative humidity

15% to 95% @ 140°F (60°C)

Altitude up to 10,000 ft (3 km) Power: 0 dB no fan Acoustic

Electrical characteristics 50/60 Hz Frequency

> 100 - 127 / 200 - 240 VAC **AC Voltage**

Current .5/.3 A 15.7 W Maximum power rating Idle power 11.6 W

Safety UL 60950-1: IEC 60950-1: EN 60950-1: CAN/ CSA-C22.2 No. 60950-1: EN 60825-1

Emissions VCCI Class A; CNS 13438; ICES-003 Issue 5 Class A; FCC CFR 47 Part 15, Class A; EN 55032:

2015/CISPR-32

Immunity Generic EN 55024, CISPR 24

> ΕN EN 55024, 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
 IEC 61000-4-8

magnetic field

Voltage dips and

IEC 61000-4-11

interruptions

Harmonics EN 61000-3-2, IEC 61000-3-2 **Flicker** EN 61000-3-3, IEC 61000-3-3

Device Management Web browser

NotesUse only supported genuine HPE mini-GBICs with your switch.

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 OfficeConnect 1920S 48G 4SFP Switch (JL382A)

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 100/1000 Mbps ports (IEEE 802.3z Type 1000BASE-X, IEEE 802.3u Type 100BASE-FX)

Physical characteristics Dimensions 17.42(w) x 9.69(d) x 1.73(h) in

(44.25 x 24.61 x 4.39 cm) (1U height)

Weight 7.3 lb (3.31 kg)

Memory and processor

ARM Cortex-A9 @ 400 MHz, 256 MB SDRAM, 64 MB flash; packet buffer: 1.5 MB

1000 Mb Latency $< 2.0 \mu s$

Throughput up to 77.3 Mpps

Routing/Switching

capacity

104 Gbps

Routing table size 32 entries **MAC address table size** 16,000 entries

Reliability MTBF (years) 61.73

Environment Operating temperature 32°F to 104°F (0°C to 40°C)

Operating relative

humidity

15% to 95% @ 104°F (40°C)

Nonoperating/Storage -40

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

15% to 95% @ 140°F (60°C)

Altitude up to 10,000 ft (3 km)

Acoustic Power: 0 dB no fan

Electrical characteristics Frequency 50/60 Hz

AC Voltage 100 - 127 / 200 - 240 VAC

Current .8/.5 A **Maximum power rating** 32.2 W



Idle power 23.3 W

UL 60950-1; IEC 60950-1; EN 60950-1; CAN/ CSA-C22.2 No. 60950-1; EN 60825-1 Safety

Emissions VCCI Class A; CNS 13438; ICES-003 Issue 5 Class A; FCC CFR 47 Part 15, Class A; EN 55032:

2015/CISPR-32

Immunity Generic EN 55024, CISPR 24

> ΕN EN 55024, CISPR 24

ESD IEC 61000-4-2 IEC 61000-4-3 Radiated **EFT/Burst** IEC 61000-4-4 IEC 61000-4-5 Surge IEC 61000-4-6 Conducted IEC 61000-4-8 **Power frequency**

magnetic field

IEC 61000-4-11 Voltage dips and

interruptions

Harmonics EN 61000-3-2, IEC 61000-3-2 **Flicker** EN 61000-3-3, IEC 61000-3-3

Device Management Web browser

Performance

Notes Use only supported genuine HPE mini-GBICs with your switch.

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 OfficeConnect 1920S 8G PPoE+ 65W Switch (JL383A)

4 RJ-45 autosensing 10/100/1000 PoE+ ports; Duplex: 10BASE-T/100BASE-TX: half or full; I/O ports and slots

1000BASE-T: full only

4 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

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 2.01 lb (0.91 kg)

Memory and processor ARM Cortex-A9 @ 400 MHz, 256 MB SDRAM, 64 MB flash; packet buffer: 1.5 MB

100 Mb Latency $< 7.0 \, \mu s$

1000 Mb Latency < 2.3 **u**s

Throughput up to 11.9 Mpps

Routing/Switching 16 Gbps

capacity

32 entries Routing table size

MAC address table size 8.000 entries

Reliability MTBF (years) 112.36

Environment Operating temperature 32°F to 104°F (0°C to 40°C)

Operating relative

humidity

15% to 95% @ 104°F (40°C)

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

temperature



Nonoperating/Storage

relative humidity

15% to 95% @ 140°F (60°C)

Altitude up to 10,000 ft (3 km)

Acoustic Power: 0 dB no fan

Electrical characteristics 50/60 Hz Frequency

> 100 - 240 VAC **AC Voltage**

.9 A Current 72.9 W Maximum power rating Idle power 9.7 W PoE power 65 W PoE+

Safety UL 60950-1; IEC 60950-1; EN 60950-1; CAN/ CSA-C22.2 No. 60950-1; EN 60825-1

Emissions VCCI Class A; CNS 13438; ICES-003 Issue 5 Class A; FCC CFR 47 Part 15, Class A; EN 55032:

2015/CISPR-32

Immunity Generic EN 55024, CISPR 24

> ΕN EN 55024, CISPR 24

ESD IEC 61000-4-2 **Radiated** IEC 61000-4-3 **EFT/Burst** IEC 61000-4-4 IEC 61000-4-5 Surge **Conducted** IEC 61000-4-6 **Power frequency** IEC 61000-4-8

magnetic field

Voltage dips and IEC 61000-4-11

interruptions

Harmonics EN 61000-3-2, IEC 61000-3-2 **Flicker** EN 61000-3-3. IEC 61000-3-3

Web browser Device Management

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 OfficeConnect 1920S 24G 2SFP PPoE+ 185W Switch (JL384A)

I/O ports and slots 12 RJ-45 autosensing 10/100/1000 PoE+ ports; Duplex: 10BASE-T/100BASE-TX: half or full;

1000BASE-T: full only

12 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 100/1000 Mbps ports (IEEE 802.3z Type 1000BASE-X, IEEE 802.3u Type 100BASE-FX)

Physical characteristics **Dimensions** 17.42(w) x 9.69(d) x 1.73(h) in

(44.25 x 24.61 x 4.39 cm) (1U height)

Weight 7.3 lb (3.31 kg)

ARM Cortex-A9 @ 400 MHz, 256 MB SDRAM, 64 MB flash; packet buffer: 1.5 MB Memory and processor

Performance 100 Mb Latency $< 7.0 \mu s$

> 1000 Mb Latency $< 2.0 \mu s$ **Throughput** 38.6 Mpps



Routing/Switching

52 Gbps

64.52

capacity

Routing table size 32 entries

MAC address table size 8,

8,000 entries

Reliability

MTBF (years)

Environment Operating temperature

32°F to 104°F (0°C to 40°C)

Operating relative

15% to 95% @ 104°F (40°C)

humidity

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-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage temperature

temperature

Nonoperating/Storage

relative humidity

15% to 95% @ 140°F (60°C)

Altitude up to 10,000 ft (3 km)

Acoustic

Power: 36 dB

Electrical characteristics

Frequency

50/60 Hz

AC Voltage 100 - 127 / 200 - 240 VAC

Current2.6/1.3 AMaximum power rating207.9 WIdle power19 W

PoE power 185 W PoE+

Safety

UL 60950-1; IEC 60950-1; EN 60950-1; CAN/ CSA-C22.2 No. 60950-1; EN 60825-1

Emissions

VCCI Class A; CNS 13438; ICES-003 Issue 5 Class A; FCC CFR 47 Part 15, Class A; EN 55032:

2015/CISPR-32

Immunity

Generic EN 55024, CISPR 24

EN EN 55024, 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

IEC 61000-4-11

interruptions

EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3. IEC 61000-3-3

Device Management

Web browser

Harmonics Flicker

NotesUse only supported genuine HPE mini-GBICs with your switch.

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 OfficeConnect 1920S 24G 2SFP PoE+ 370W Switch (JL385A)

I/O ports and slots

24 RJ-45 autosensing 10/100/1000 PoE+ ports; Duplex: 10BASE-T/100BASE-TX: half or full;

1000BASE-T: full only

2 SFP 100/1000 Mbps ports (IEEE 802.3z Type 1000BASE-X, IEEE 802.3u Type 100BASE-FX)



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 9.7 lb (4.4 kg)

Memory and processor

ARM Cortex-A9 @ 400 MHz, 256 MB SDRAM, 64 MB flash; packet buffer: 1.5 MB

Performance

100 Mb Latency $< 7.0 \, \mu s$ 1000 Mb Latency $< 2.0 \mu s$ **Throughput** 77.3 Mpps **Routing/Switching** 52 Gbps

capacity

32 entries Routing table size

MAC address table size 16.000 entries

Reliability

MTBF (years) 57.1

Environment Operating temperature

32°F to 104°F (0°C to 40°C) 15% to 95% @ 104°F (40°C)

Operating relative

humidity

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

15% to 95% @ 140°F (60°C)

Altitude up to 10,000 ft (3 km)

Acoustic

Power: 45 dB

Electrical characteristics

50/60 Hz Frequency

AC Voltage 100 - 127 / 200 - 240 VAC

Current 3.5/1.9 A Maximum power rating 435 W 34.2 W Idle power 370 W PoE+ PoE power

Safety UL 60950-1; IEC 60950-1; EN 60950-1; CAN/ CSA-C22.2 No. 60950-1; EN 60825-1

Emissions VCCI Class A; CNS 13438; ICES-003 Issue 5 Class A; FCC CFR 47 Part 15, Class A; EN 55032:

2015/CISPR-32

Immunity Generic EN 55024, CISPR 24

> ΕN EN 55024. CISPR 24

ESD IEC 61000-4-2 Radiated IEC 61000-4-3 **EFT/Burst** IEC 61000-4-4 IEC 61000-4-5 Surge IEC 61000-4-6 Conducted Power frequency IEC 61000-4-8

magnetic field

Voltage dips and

interruptions

IEC 61000-4-11

Harmonics EN 61000-3-2, IEC 61000-3-2 Flicker EN 61000-3-3, IEC 61000-3-3

Device Management

Web browser

Notes Use only supported genuine HPE mini-GBICs with your switch.



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 OfficeConnect 1920S 48G 4SFP PPoE+ 370W Switch (JL386A)

I/O ports and slots 24 RJ-45 autosensing 10/100/1000 PoE+ ports; Duplex: 10BASE-T/100BASE-TX: half or full;

1000BASE-T: full only

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 100/1000 Mbps ports (IEEE 802.3z Type 1000BASE-X, IEEE 802.3u Type 100BASE-FX)

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 9.7 lb (4.4 kg)

Memory and processor ARM Cortex-A9 @ 400 MHz, 256 MB SDRAM, 64 MB flash; packet buffer: 1.5 MB

Performance 100 Mb Latency $< 7.0 \mu s$

1000 Mb Latency< 2.0 μs</th>Throughput77.3 MppsRouting/Switching104 Gbps

capacity

Routing table size 32 entries

MAC address table size 16,000 entries

Reliability MTBF (years) 45

EnvironmentOperating temperature 32°F to 104°F (0°C to 40°C)

Operating relative

humidity

15% to 95% @ 104°F (40°C)

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

15% to 95% @ 140°F (60°C)

Altitude up to 10,000 ft (3 km)

Acoustic Power: 45 dB

Electrical characteristics Frequency 50/60 Hz

AC Voltage 100 - 127 / 200 - 240 VAC

Current5.1/2.6 AMaximum power rating481 WIdle power54.8 WPoE power370 W PoE+

Safety UL 60950-1; IEC 60950-1; EN 60950-1; CAN/ CSA-C22.2 No. 60950-1; EN 60825-1

Emissions VCCI Class A; CNS 13438; ICES-003 Issue 5 Class A; FCC CFR 47 Part 15, Class A; EN 55032:

2015/CISPR-32

Immunity Generic EN 55024, CISPR 24

EN EN 55024, CISPR 24

ESD IEC 61000-4-2

Radiated IEC 61000-4-3

EFT/Burst IEC 61000-4-4



Surge IEC 61000-4-5 IEC 61000-4-6 Conducted IEC 61000-4-8 **Power frequency**

magnetic field

Voltage dips and interruptions

IEC 61000-4-11

EN 61000-3-2, IEC 61000-3-2 **Harmonics Flicker** EN 61000-3-3, IEC 61000-3-3

Device Management Web browser

Notes Use only supported genuine HPE mini-GBICs with your switch.

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 Denial of service protection

(applies to all products in CPU DoS Protection

series)

General Protocols

IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s (MSTP)

IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3ad Link Aggregation Control Protocol (LACP)

IEEE 802.3x Flow Control IEEE 802.3 Type 10BASE-T IEEE 802.3i 10BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-X

RADIUS Server RADIUS server configuration options

IP/Address or Hostname Friendly server name

Port Number (1-65335) Default = 1812

Secret key

Message Authenticator – enable or disable

RADIUS server summarized statistics

Client IP address / hostname

Round trip time Access requests Access rejects Pending requests Timeouts

Packets Dropped

RADIUS Accounting RADIUS accounting server configurations options

IP Address or Hostname Friendly server name

Port number - (1-65535) Default = 1813

Secret Key



RADIUS accounting attributes

RADIUS_ATTR_TYPE_USER_NAME

RADIUS ATTR TYPE USER PASSWORD

RADIUS_ATTR_TYPE_NAS_IP_ADDRESS

RADIUS_ATTR_TYPE_NAS_PORT

RADIUS_ATTR_TYPE_SERVICE_TYPE

RADIUS_ATTR_TYPE_FRAMED_IP_ADDRESS

RADIUS_ATTR_TYPE_FILTER_ID

RADIUS_ATTR_TYPE_FRAMED_MTU

RADIUS_ATTR_TYPE_REPLY_MESSAGE

RADIUS_ATTR_TYPE_STATE

RADIUS ATTR TYPE CLASS

RADIUS_ATTR_TYPE_SESSION_TIMEOUT

RADIUS_ATTR_TYPE_TERMINATION_ACTION

RADIUS_ATTR_TYPE_CALLED_STATION_ID

RADIUS ATTR TYPE CALLING STATION ID

RADIUS_ATTR_TYPE_NAS_IDENTIFIER

RADIUS_ATTR_TYPE_ACCT_STATUS_TYPE

RADIUS_ATTR_TYPE_ACCT_INPUT_OCTETS

RADIUS_ATTR_TYPE_ACCT_OUTPUT_OCTETS

RADIUS_ATTR_TYPE_ACCT_SESSION_ID

RADIUS_ATTR_TYPE_ACCT_SESSION_TIME

RADIUS_ATTR_TYPE_ACCT_TERMINATE_CAUSE

RADIUS_ATTR_TYPE_ACCT_G_IBYTES

RADIUS_ATTR_TYPE_ACCT_G_OBYTES

RADIUS_ATTR_TYPE_NAS_PORT_TYPE

RADIUS_ATTR_TYPE_TUNNEL_TYPE

RADIUS_ATTR_TYPE_TUNNEL_MEDIUM_TYPE

RADIUS_ATTR_TYPE_EAP_MESSAGE

RADIUS_ATTR_TYPE_MESSAGE_AUTHENTICATOR

RADIUS_ATTR_TYPE_TUNNEL_PRIVATE_GROUP_ID

RADIUS accounting summarized statistics

Accounting Requests

Pending Requests

Timeouts

Packets Dropped

MIB support

RFC 2819 RMON-MIB

HC-ALARM-MIB

SNMP-FRAMEWORK-MIB

SNMP-NOTIFICATION-MIB

SNMP-USER-BASED-SM-MIB

SR-AGENT-INFO-MIB

BRIDGE-MIB (IEEE 802.1Q)

Q-BRIDGE-MIB (RFC 2674

LLDP-MIB (IEEE 802.3AB)

LLDP-EXT-MED-MIB

LAG-MIB (IEEE 802.3ad)

RADIUS-ACC-CLIENT-MIB

EtherLike-MIB

IF-MIB (RFC 2863)

RFC1213-MIB

Power Ethernet MIB (RFC3621)



HPE Private MIBS

MIB Description	OID	Node Module	Object Name
Software Version	1.3.6.1.4.1.11.2.36.1.1.2.6	SEMI-MIB	hpHttpMgVersion
ROM Version	1.3.6.1.4.1.11.2.36.1.1.2.8	SEMI-MIB	hpHttpMgROMVersion
Serial Number	1.3.6.1.4.1.11.2.36.1.1.2.9	SEMI-MIB	hpHttpMgSerialNumber

sysOID – identifier MIB objects

JL380A HPE 1920S 8G Switch	1.3.6.1.4.1.11.2.3.7.11.183
JL381A HPE 1920S 24G Switch	1.3.6.1.4.1.11.2.3.7.11.184
JL382A HPE 1920S 48G Switch	1.3.6.1.4.1.11.2.3.7.11.185
JL383A HPE 1920S 8G PPoE+ (65W) Switch	1.3.6.1.4.1.11.2.3.7.11.186
JL384A HPE 1920S 24G PPoE+ (185W) Switch	1.3.6.1.4.1.11.2.3.7.11.187
JL385A HPE 1920S 24G PoE+ (370W) Switch	1.3.6.1.4.1.11.2.3.7.11.188
JL386A HPE 1920S 48G PPoE+ (370W) Switch	1.3.6.1.4.1.11.2.3.7.11.198



Accessories

HPE OfficeConnect 1920S Switch Series accessories

Transceivers

Aruba 100M SFP LC FX 2km MMF Transceiver	J9054D
Aruba 1G SFP LC LX 10km SMF Transceiver	J4859D
Aruba 1G SFP LC SX 500m OM2 MMF Transceiver	J4858D
Aruba 1G SFP RJ45 T 100m Cat5e Transceiver	J8177D

Mounting Kit

HPE X410 1U Universal 4-post Rackmount Kit

J9583A



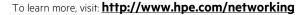
Summary of Changes

Date	Version History	Action	Description of Change:
02-Apr-2018	Version 4	Changed	Accessories updated
04-Sep-2017	Version 3	Changed	Updates made on Features and benefits
16-May-2017	Version 2	Changed	Edits made on Technical Specifications
06-Mar-2017	Version 1	Created	Document creation

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