QuickSpecs

Overview

HPE OfficeConnect 1920 Switch Series



Models

HPE OfficeConnect 1920 8G Switch	JG920A
HPE OfficeConnect 1920 8G PoE+ (65W) Switch	JG921A
HPE OfficeConnect 1920 8G PoE+ (180W) Switch	JG922A
HPE OfficeConnect 1920 16G Switch	JG923A
HPE OfficeConnect 1920 24G Switch	JG924A
HPE OfficeConnect 1920 24G PoE+ (180W) Switch	JG925A
HPE OfficeConnect 1920 24G PoE+ (370W) Switch	JG926A
HPE OfficeConnect 1920 48G Switch	JG927A
HPE OfficeConnect 1920 48G PoE+ (370W) Switch	JG928A

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
- Limited Lifetime warranty

Product overview

The HPE OfficeConnect 1920 Switch Series consists of advanced smart-managed fixed-configuration Gigabit switches designed



Overview

for small businesses in an easy-to-administer solution. By utilizing the latest design in silicon technology, this series is one of the most power efficient in the market.

The series has 9 switches: four non-PoE models and five PoE+ models. All models are equipped with additional Gigabit SFP ports for fiber connectivity. The 8-, 24- and 48-port PoE+ models are available with PoE or without PoE.

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. All models support rack mounting or desktop operation. Customizable features include basic Layer 2 features like VLANs and link aggregation, as well as advanced features such as Layer 3 static routing, IPv6, ACLs, and Spanning Tree Protocols. HPE OfficeConnect 1920 Switch Series includes a Limited Lifetime Warranty. This warranty provides advance hardware replacement with next business day shipment in most countries, limited 24x7 telephone support available from HPE for the first 90 days, and limited electronic and business hours telephone support is available from HPE for the entire warranty period.

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)

Single IP management of

enables management of up to 32 HPE OfficeConnect 1920 switches using a single Web interface; simplifies management of multiple devices

- SNMPv1, v2c, and v3 facilitates management of the switch, as the device can be discovered and monitored from an SNMP management station
- Management Security

restricts access to critical configuration commands; offers multiple privilege levels with password protection; ACLs provide Telnet and SNMP access; local and remote syslog capabilities allow logging of all access

• Complete session logging

provides detailed information for problem identification and resolution

• Port mirroring

enables traffic on a port to be simultaneously sent to a network analyzer for monitoring

• Dual flash images

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

• Network Time Protocol (NTP)

synchronizes timekeeping among distributed time servers and clients; keeps timekeeping consistent among all clockdependent devices within the network so that the devices can provide diverse applications based on the consistent time

Limited CLI

enables users to quickly deploy and troubleshoot devices in the network

• 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 will fall back to a unique static address determined by the switch's MAC address

• FTP, TFTP, and SFTP support

offers 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); Secure File Transfer Protocol (SFTP) runs over an SSH tunnel to provide additional security

• Remote monitoring (RMON)

uses standard SNMP to monitor essential network functions; supports events, alarm, history, and statistics group plus a private alarm extension group

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

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classification; packets are mapped to eight hardware queues for more effective throughput

• IEEE 802.1p/Q

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 priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number,
 source port, and DiffServ
- Broadcast control
 allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic
- Advanced Classifier based QoS classifies traffic using multiple match criteria based on Layer 2, 3, and 4 information; applies QoS policies such as setting priority level and rate limit to selected traffic on a per-port basis
- Rate limiting
 sets per-port ingress enforced may

sets per-port ingress enforced maximums and per-port, per-queue minimums

Powerful QoS feature

supports the following congestion actions: strict priority queuing (SP), weighted round robin (WRR) queuing, and SP+WRR

Connectivity

- IPv6
 - IPv6 host

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

- o **IPv6 routing** supports IPv6 static routes
- MLD snooping forwards IPv6 multicast traffic to the appropriate interface, preventing traffic flooding
- o IPv6 ACL/QoS

supports ACL and QoS for IPv6 network traffic

• 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 upto 30W per port, which 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; lowers the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments.

• Cable diagnostics

detects cable issues remotely using a browser-based tool

• Flow control

provides back pressure using standard IEEE 802.3x, reducing congestion in heavy traffic situations

• Auto MDI/MDI-X

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

Security

• Advanced access control lists (ACLs)

enables network traffic filtering and enhances network control using MAC- and IP-based ACLs; time-based ACLs allow for greater flexibility with managing network access

- IEEE 802.1X and RADIUS network logins controls port-based access for authentication and accountability
- Secure Socket Layer (SSL)

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

Port Isolation

The port isolation feature isolates Layer 2 traffic for data privacy and security without using VLANs. This feature can also be used to isolate the hosts in a VLAN from one another.

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- **Port Security** Combines and extends IEEE 802.1X and MAC authentication to provide MAC-based network access control
- ARP attack protection
 The ARP detection feature enables access devices to block ARP packets from unauthorized clients to prevent user spoofing and gateway spoofing attacks.
- Automatic VLAN assignment assigns users automatically to the appropriate VLAN based on their identity, location and time of day
- STP BPDU port protection blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
- **STP root guard** protects the root bridge from malicious attacks or configuration mistakes
- 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

Performance

- Half- and full-duplex auto-negotiating capability on every port doubles the throughput on 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 to all ports
- **Fiber uplink** provides greater distance connectivity using Gigabit Ethernet 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 10 kilobyte frame size to improve the performance of large data transfers
- VLAN support and tagging supports IEEE 802.1Q with 4,094 simultaneous VLAN IDs

Layer 3 services

• Address Resolution Protocol (ARP)

determines the MAC address of another IP host in the same subnet; supports static ARPs; gratuitous ARP allows detection of duplicate IP addresses; 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/IPv6 routing

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provides basic routing (supporting up to 32 static routes and 8 virtual VLAN interfaces); allows manual routing configuration

Resiliency and high availability

• Available redundant power supply

provides additional PoE of up to 795W for high-power applications like PTZ IP cameras, Video IP phones; the HPE RPS1600 Redundant Power System (JG136A), which is sold separately, is for use with the HPE OfficeConnect 1920-24G-PoE+ (180W) switch and HPE OfficeConnect 1920-24G-PoE+ (370W) switch models

• 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 automatically configure network devices such as IP phones

- PoE allocations supports multiple methods (automatic, IEEE 802.3af class, LLDP-MED, or user-specified) to allocate PoE power for more efficient energy savings
- **Auto voice VLAN** recognizes IP phones and automatically assigns voice traffic to dedicated VLAN for IP phones

Additional information

- Green initiative support
 provides support for RoHS and WEE
 - provides support for RoHS and WEEE regulations
- Green IT and power

improves energy efficiency through the use of the latest advances in silicon development; shuts off unused ports and utilizes variable-speed fans, reducing energy costs

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

Warranty and support

• Limited Lifetime Warranty

This series comes with a Limited Lifetime Warranty providing advance hardware replacement with next business day shipment in most countries, 24x7 phone support available for the first 90 days, and electronic and business hours phone support for the entire warranty period. See <u>http://www.hpe.com/networking/warrantysummary</u> for full warranty and support information included with your product purchase.

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Configuration

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.

 HPE OfficeConnect 1920 8G Switch 8 RJ-45 auto-negotiating 10/100/1000 ports 2 SFP 1000 Mbps ports min=0 \ max=2 SFP Transceivers 1U - Height 	JG920A See Configuration NOTE: 1, 2
PDU Cable NA/MX/TW/JP • C15 PDU Jumper Cord (NA/MX/TW/JP)	JG920A #B2B
PDU Cable ROW C15 PDU Jumper Cord (ROW) 	JG920A #B2C
 HPE OfficeConnect 1920 8G PoE+ (65W) Switch 8 RJ-45 auto-negotiating 10/100/1000 PoE+ ports 2 SFP 1000 Mbps ports min=0 \ max=2 SFP Transceivers 1U - Height 	JG921A See Configuration NOTE: 1, 2
PDU Cable NA/MX/TW/JP • C15 PDU Jumper Cord (NA/MX/TW/JP)	JG921A #B2B
PDU Cable ROW C15 PDU Jumper Cord (ROW) 	JG921A #B2C
 HPE OfficeConnect 1920 8G PoE+ (180W) Switch 8 RJ-45 auto-negotiating 10/100/1000 PoE+ ports 2 SFP 1000 Mbps ports min=0 \ max=2 SFP Transceivers 1U - Height 	JG922A See Configuration NOTE: 1, 2
PDU Cable NA/MX/TW/JP • C15 PDU Jumper Cord (NA/MX/TW/JP)	JG922A#B2B
PDU Cable ROW C15 PDU Jumper Cord (ROW) 	JG922A#B2C
 HPE OfficeConnect 1920 16G Switch 16 RJ-45 auto-negotiating 10/100/1000 ports 4 SFP 1000 Mbps ports min=0 \ max=4 SFP Transceivers 1U - Height 	JG923A See Configuration NOTE: 1, 2
PDU Cable NA/MX/TW/JP • C15 PDU Jumper Cord (NA/MX/TW/JP)	JG923A#B2B

Configuration

PDU Cable ROWC15 PDU Jumper Cord (ROW)	JG923A#B2C
 HPE OfficeConnect 1920 24G Switch 24 RJ-45 auto-negotiating 10/100/1000 ports 4 SFP 1000 Mbps ports min=0 \ max=4 SFP Transceivers 1U - Height 	JG924A See Configuration NOTE: 1, 2
PDU Cable NA/MX/TW/JP • C15 PDU Jumper Cord (NA/MX/TW/JP)	JG924A#B2B
PDU Cable ROW • C15 PDU Jumper Cord (ROW)	JG924A#B2C
 HPE OfficeConnect 1920 24G PoE+ (180W) Switch 24 RJ-45 auto-negotiating 10/100/1000 PoE+ ports 4 SFP 1000 Mbps ports min=0 \ max=4 SFP Transceivers 1U - Height 	JG925A See Configuration NOTE: 1, 2
PDU Cable NA/MX/TW/JP • C15 PDU Jumper Cord (NA/MX/TW/JP)	JG925A#B2B
PDU Cable ROW • C15 PDU Jumper Cord (ROW)	JG925A#B2C
 HPE OfficeConnect 1920 24G PoE+ (370W) Switch 24 RJ-45 auto-negotiating 10/100/1000 PoE+ ports 4 SFP 1000 Mbps ports min=0 \ max=4 SFP Transceivers 1U - Height 	JG926A See Configuration NOTE: 1, 2
PDU Cable NA/MX/TW/JP • C15 PDU Jumper Cord (NA/MX/TW/JP)	JG926A#B2B
PDU Cable ROW C15 PDU Jumper Cord (ROW) 	JG926A#B2C
 HPE OfficeConnect 1920 48G Switch 48 RJ-45 auto-negotiating 10/100/1000 ports 4 SFP 1000 Mbps ports min=0 \ max=4 SFP Transceivers 1U - Height 	JG927A See Configuration NOTE: 1, 2
PDU Cable NA/MX/TW/JP • C15 PDU Jumper Cord (NA/MX/TW/JP)	JG927A#B2B
PDU Cable ROWC15 PDU Jumper Cord (ROW)	JG927A#B2C

Configuration

HPE OfficeConnect 1920 • 48 RJ-45 auto-ne • 4 SFP 1000 Mbp • min=0 \ max=4 S • 1U - Height	JG928A See Configuration NOTE: 1, 2	
PDU Cable NA/MX/TW/JF • C15 PDU Jumper	Cord (NA/MX/TW/JP)	JG928A#B2B
PDU Cable ROW • C15 PDU Jumper	Cord (ROW)	JG928A#B2C
Configuration Rules:		
Note 1	The following Transceivers install into this switch: HPE X121 1G SFP LC SX Transceiver HPE X121 1G SFP LC LX Transceiver HPE X121 1G SFP RJ45 T Transceiver HPE X120 1G SFP LC SX Transceiver HPE X120 1G SFP LC LX Transceiver HPE X120 1G SFP RJ45 T Transceiver	J4858C J4859C J8177C JD118B JD119B JD089B
Note 2	Localization (Wall Power Cord) required on orders without #B2B or #B2C (PDU Power Cord). (See Localization Menu)	
Remarks:	s: 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)	

Transceivers

SFP Transceivers

HPE X121 1G SFP LC SX Transceiver	J4858C
HPE X121 1G SFP LC LX Transceiver	J4859C
HPE X121 1G SFP RJ45 T Transceiver	J8177C
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE X120 1G SFP RJ45 T Transceiver	JD089B

Cables

Multi-Mode Cables

	Daga
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 5.0m 1-Pack Fiber Optic Cable	AJ836A
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 1.0m 1-Pack Fiber Optic Cable	AJ834A
HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A

Configuration

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

External/Redundant Power Supplies

HPE RPS1600 Redundant Power System	JG136A
 Height = 1U includes 1 x c13, 1600w and Power Supply port 	See Configuration NOTE: 2, 3, 4
HPE RPS1600 1600W AC Power Supply	JG137A

- Installs into JG136A only
- Configuration Rules:

Note 1	If this power supply is selected, The JG136A - HPE RPS1600 Redundant Power System must be on order or onsite.
Note 2	Localization required.
Note 3	Each switch will only support 1 JG136A and 1 JG137A Power supply systems.
Note 4	This power supply only supported on switch JG926A and JG928A.

External/Redundant Power Cables

HPE X290 1000 A JD5 2m RPS Cable

JD187A See Configuration **NOTE:**1

See Configuration NOTE:1, 3

Remarks: These cables are used to connect the External Power System to Switch.

Configuration Rules:

Note 1	This Cable is only supported on switch JG926A and JG928A when used with the RPS 1600 (JG136A)
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HPE OfficeConnect	1920 8G	Switch (JG920A)
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I/O ports and slots	8 RJ-45 auto-negotiating 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T)			
	2 SFP 100/1000 Mbps slots (IEEE 802.3u Type 100BASE-FX, IEEE 802.3z Type 1000BASE-X			
		Supports a maximum of 8 autosensing 10/100/1000 ports plus 2 SFP 100/1000 slots		
Additional ports and slots	1 RJ-45 console port to access limited CLI port			
Physical characteristics	Dimensions	10.47(w) x 6.38(d) x 1.73(h) in (26.6 x 16.2 x 4.4 cm) (1U height)		
	Weight	1.98 lb (0.9 kg)		
Memory and processor	MIPS @ 500 MHz, 32 MB	flash, 128 MB SDRAM; packet buffer size: 512 KB		
Mounting and enclosure	Mounts in an EIA standard	19-inch telco rack or equipment cabinet (hardware included), Wall Mount		
Performance	100 Mb Latency < 5 μs			
	1000 Mb Latency	< 5 µ s		
	Throughput	14.8 Mpps (64-byte packets)		
	Routing/Switching capacity	20 Gbps		
	Routing table size	32 entries (IPv4), 32 entries (IPv6)		
	MAC address table size	8192 entries		
Reliability	MTBF (years)	128.20		
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)		
	Operating relative humidity	10% to 90%, noncondensing		
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)		
	Nonoperating/Storage relative humidity	10% to 95%, noncondensing		
	Altitude	up to 16,404 ft (5 km)		
	Acoustic	Pressure: 0 dB No Fan		
Electrical characteristics	Frequency	50/60 Hz		
	AC voltage	100 - 240 VAC		
	Maximum power rating	9 W		
	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.		
Safety	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03			
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class A			
Management	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB			
Notes	SFP port and copper ports work simultaneously, independent of each other, to provide a total of 10 Gigabit switching ports.			
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 1920 8G PoE+ (65W) Switch (JG921A)

I/O ports and slots 8.R.J.4.5 sub negotiating J0/100/1000 POE+ ports (IEEE 802.3 Type 1008ASE-T, LIEE 802.3 at Type 10008ASE-T, LIEE 802.3 at Type 100018ASE-T, LIEE 802.3 at Type 10018ASE-T, LIEE 80.500.5 USAESE-S, LIEE 80.50.5 USAESE-S, LIEE 80.50.5 USA	TIFE Officeconnect 1720			
Additional ports and seture interaction in the set of	I/O ports and slots			
Additional ports and slots 1.RJ-45 console port to access limited CLI port slots Physical characteristics Dimensions 12.99(w) x 9.06(d) x 1.73(h) in (33 x 23 x 44 cm) (1U height) Weight 6.5 lb (2.95 kg) Memory and processor MPS (g) 500 MHz, 32 MB llash, 128 MS DRAM; packet buffer size; 512 KB Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included) Performance Performance 1000 Mb Latency < 5 µs Throughput 14.8 Mpsp (64-byte packets) Routing /Switching 20 Gbps capacity Routing table size 312 entries (IPVA), 32 entries (IPVA) Reliability MBF (years) 76.33 Environment Operating remperature 22/F to 104/F (O*C to 40*C) Operating relative 10% to 90%, noncondensing humidity 10% to 95%, noncondensing Huitude up to 16,404 ft fS km) Acoustic Presure: 0 dB No Fan Electrical characteristics Fequency 50% OHz AC voltage 100: 240 VAC Maximum power rating 94 W PoE power 65 W PoE+ Notes Notes Safety UL 00		2 SFP 100/1000 Mbps slots (IEEE 802.3u Type 100BASE-FX, IEEE 802.3z Type 1000BASE-X		
slots 12.9(%) × 9.06(d) × 17.3(h) in (33 × 23 × 4.4 m) (1U height) Physical characteristic Weight 6.5 lb (2.95 kg) Memory and processor MIPS @ 500 MH2, 32 MB Uss. 128 MB SDRAM; packet buffer size: 512 KB Mounting and enclosure Mounts in an EIA standard Ussich telco rack or equipment cabinet (hardware included) Performance 100 Mb Latency < 5 μs Routing 300 Mb Latency < 0 Gbps capacity 20 Gbps Reliability MTB (years) 32.9 entries (IPv4), 32 entries (IPv4) MAC address table size 32.9 entries (IPv4), 32 entries (IPv6) Monoperating/Storage 70.37 Performance Nonoperating/Storage 70.0 % noncondensing Humidity Up to 16.404 ft (5 km) 40% to 5% noncondensing Feletrical characteristic Frequency 50/60 Hz AC voltage AC		S Supports a maximum of	8 autosensing 10/100/1000 ports plus 2 SFP 100/1000 slots	
Physical characteristic Dimensions 12.99(w) x 9.06(d) x 1.73(h) in (33 x 23 x 4.4 cm) (1U height) Weinory and processo MPS @ 500 MH2, 32 MB H sty 128 MB SDRAM; packet buffer size 512 KB Mounting and enclosus Mounts in an EIA standartU-rich talco rack or equipment cabinet (hardware included) Performance 100 Mb Latency < 5 μs IO00 Mb Latency < 5 μs Routing table size 3 co bps Routing table size 2 entries (IPVA), 32 entries (IPVA), 32 entries (IPVA) Reliability MAC address table size 32* for 100* for 04°C) Monoperating relative 32* for 100* for 04°C) 32* for 100* for 04°C) Nonoperating relative 10% to 90%, noncondensing 32* for 105* for 40°C to 70°C) Nonoperating/Storag 40°F to 158* for 40°C to 70°C) 32* for 105* for 105* for 10°C to 70°C) relative humidity Acoustic 94°V Acoustic 100* 10 40Å ft fS km) Acoustic 100* 20 40 VAC Revereical maximum power rating and maximum near dissipation are the worst-case have for theoretical maximum numbers provided for planning the infrastructure with fully loader PDE of evereice theoretical maximum numbers provided for planning the infrastructure with fully loader PDE of evereice theoretical maximum numbers prov	Additional ports and	1 RJ-45 console port to ac	cess limited CLI port	
Weight6.5 lb (2.95 kg)Memory and processonMIPS © 500 M12, 32 MB Tash, 128 MB SDRAM; packet buffer size; 512 KBMounting and enclosueMounts in an EIA stand=71 winch telco rack or equipment cabinet (hardware included)Performance100 Mb Latency< 5 µs1000 Mb Latency< 5 µsThroughput14.8 Mpps (64-byte packets)Routing/Switching capacity20 GbpsRouting table size32 entries (IPV4), 32 entries (IPV6)ReliabilityMTBF (years)Porting table size32 entries (IPV4), 32 entries (IPV6)PerformmentOperating temperatureNonoperating/Storage relative humidity-40°F to 158°F (-40°C to 40°C)Nonoperating/Storage relative humidity-40°F to 158°F (-40°C to 70°C)Electrical characteristicsFrequency-40°F to 158°F (-40°C to 70°C)Electrical characteristicsFrequency-50/60 HzA C voltage-20/60 Hz-20/60 HzElectrical characteristicsFrequency-50/60 HzA C voltage-50 PoE jower-50 PoE jowerNotes-50 PoE jower she power raping and maximum meter dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (F equipped) 1.00% traffic.31 Posts just in the laye and quantity of power supplies.SafetyUL 60950; IEC 60950; IEC 60950; IC KN/CSA-C22, No. 60950; I-03EmissionCL 60950; IEC 60950; IEC 60950; IC KN/CSA-C22, No. 60950; I-03EmissionMC - Intelligent Manageer: LEE 802, 31 Etheret MBNotesSP port and copper purstwork simul	slots			
Memory and processon MIPS @ 500 MHz 32 MB Hz ht 128 MB SDRAM; packet buffer size: 512 KB Mounting and enclosure Mounts in an EIA standar U→rich telco rack or equipment cabinet (hardware included) Performance 100 Mb Latency < 5 μs	Physical characteristics	Dimensions	12.99(w) x 9.06(d) x 1.73(h) in (33 x 23 x 4.4 cm) (1U height)	
Mounting and encloses Mounts in an EIA stand=1+-inch telco rack or equipment cabinet (hardware included) Performance 100 Mb Latency < 5 μs Introughput 14.8 Mpps (64-byte packets) Routing/Switching Routing table size 32 entries (IPv4), 32 entries (IPv6) MAC address table size Reliability MTBF (years) 76.33 Environment Operating temperature 32°F to 104°F (0°C to 40°C) Nonoperating/Storage -40°F to 158°F (-40°C to 70°C) Nonoperating/Storage -40°F to 158°F (-40°C to 70°C) Attitude up to 16,404 ft (5 km) Accustic Pressure: 0 dB No Fan Electrical characteristic Frequency 50/00 HJ Attitude 000 - 240 VAC PoE power 65 W PoE+ Notes Maximum power rating and maximum net dissipation are the worst-case with full loaded PoE Gif equipped). 100% traditic, all ports plugged in, and all modules populated. PoE power 65 W PoE+ Notes Waximum power rating and maximum numbers provided for planning the infrastructure with full loaded PoE Gif equipped). 100% traditic, all ports plugged in, and all modules populated. PoE power 05 Worset:		Weight	6.5 lb (2.95 kg)	
Performance 100 Mb Latency < 5 μs	Memory and processor	MIPS @ 500 MHz, 32 MB	flash, 128 MB SDRAM; packet buffer size: 512 KB	
Ideal1000 Mb Latency9 μsThroughput14.8 Mps (64-byte packets)Routing/Switching capacity20 GbpsRouting fable size32 entries (Pv4), 32 entries (Pv6)ReliabilityMC address table sizBeliabilityMTBF (years)Operating temperature12/to 10/4° (0°C to 40°C)Operating relative10% to 90%, noncondensing 10% to 90%, noncondensingNonoperating/Storag rener40°F to 158°F (-40°C to 70°C)Nonoperating/Storag relative10% to 90%, noncondensing 10% to 90%, noncondensingNonoperating/Storag relative humidity10% to 90%, noncondensing 10% to 90%, noncondensing 10% to 90%, noncondensingFelevrical characteristicNonoperating/Storag relative humidity10% to 90%, noncondensing 10% to 90%, noncondensing 	Mounting and enclosure	Mounts in an EIA standard	19-inch telco rack or equipment cabinet (hardware included)	
Introughput14.8 Mpps (64-byte packets)Routing/Switching capacity20 GbpsRouting table size3 2 entries (IPv6), 32 entries (IPv6)MAC address table size3192 entriesReliabilityMTBF (years)Operating temperature32 °F to 104°F (0°C to 40°C)Operating relative humidity10% to 90%, noncondensing humidityNonoperating/Storag relative humidity10% to 95%, noncondensing relative humidityInterperature10% to 95%, noncondensing relative humidityAthitudeup to 16,404 ft (5 km)Acoustic906 H2Acoustic906 H2Acoustic50/60 H2Acoustic905 NoErAthitude100 - 240 VACAximum power rating Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (ft equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power supplied by the internal power supply. It is dependent on the type and quantity of power supplied. Det power supplied.SafetyUL 60950; IEC 60950-1; CAN/CSA-C222 No. 60950-1; O3EmissionsFC part 15 Class A: VCC Usas A: CISPR 22 Class A: EN 55024; EN 61000-5; Class A: CC part 15 Class A: CISPR 22 Class A: CISPR 22 Class A: EN 55024; EN 61000-5; Class A: Class A: CISPR 22 Class A: CISPR 22 Class A: EN 55024; EN 61000-5; Class A: Class A: CISPR 22 Class A: CISPR 22 Class A: EN 55024; EN 61000-5; Class A: Class A: CISPR 22 Class A: EN 55024; EN 61000-5; Class A: Class A: CISPR 22 Class A: CISPR 22 Class A: EN 55024; EN 61000-5; Class A: Class A: CISPR 22 Class A: CISPR 22 Class A: EN 5	Performance	100 Mb Latency	< 5 μs	
Routing/Switching capacity 20 Gbps Routing table size Auting table size 32 entries (IPv4), 32 entries (IPv6) MAC address table size MAC address table size 8192 entries Reliability MTBF (years) 76.33 Environment Operating temperature 32°F to 104°F (0°C to 40°C) Operating relative humidity 10% to 90%, noncondensing Nonoperating/Storage relative humidity 40°F to 158°F (-40°C to 70°C) Nonoperating/Storage relative humidity 10% to 95%, noncondensing Attitude up to 16,404 ft (5 km) Acoustic Pressure: 0 dB No Fan Electrical characteristics Frequency AC voltage 100° - 240 VAC 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 UL 60950-1; EE 60950-1; CAN/CSA-C22.2 No. 60950-1-03 Emissions FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-US Class A Management IMC - Intelligent Management MIS Notes SFP port and copper ports work simultaneously, independent of feet ot other, t		1000 Mb Latency	< 5 μs	
capacity S2 entries (IPv4), 32 entries (IPv6) Reliability Reliability Reliability MTB (years) Operating temperature 32* for 104*F (0°C to 40°C) Operating temperature 32* for 104*F (0°C to 40°C) Operating temperature 10% to 90%, noncondensing humidity 10% to 90%, noncondensing Nonoperating/Storage 10% to 95%, noncondensing relative humidity 10% to 95%, noncondensing Nonoperating/Storage 10% to 95%, noncondensing relative humidity 10% to 95%, noncondensing Attitude up to 16,404 ft (5 km) Acoustic Pressure: 0 dB No Fan Frequency 50/60 Hz Acoutage 65 W PoE+ 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 65 W PoE+ Safety UL 40950; IEC 60950-1; CAN/CSA-C22.2 No.60950-1-03 Emissions CC part 15 Class A; VCC Lass A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; IEEE 8023 Ethemetet MIS		Throughput	14.8 Mpps (64-byte packets)	
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MAC address table size8192 entriesPeliabilityMTBF (years)9.6.33EnvironmentOperating temperature32°F to 104°F (0°C to 4°C)Operating relative1.0% to 90%, noncondensing temperature1.0% to 90%, noncondensing temperatureNonoperating/Storage relative humidity4.0% to 158°F (-4.0°C to 7.0°C)Nonoperating/Storage relative humidity0.0% to 95%, noncondensing up to 16.404 ft (5 km)Electrical characteristicRocustic0.0% to 95%, noncondensing (attive humidity)Fleetrical characteristicPrequency0.0% to 95%, noncondensing (attive humidity)PoporeNonoperating/Storage (attive humidity)0.0% to 95%, noncondensing (attive humidity)Fleetrical characteristicPrequency0.0% to 95%, noncondensing (attive humidity)PoporeNotesNotesNonoperating (Attive humidity)PoporeNotesNotes0.0% to 95%, noncondensing (attive humidity)PoporeNotesNotes0.0% to 95%, noncondensing (attive humidity)PoporeNotesNotes0.0% to 95%, noncondensing (attive humidity)PoporeNotesNotesNotesNotesSafetyUL 60950: IC AN/CSA-C222 No.60950-1.03Distonoperating (Attive humidity)PoporeSt Hep order subplied by the internal power supplied. NotesDiston Singer Us Singer Us Singer Si			32 entries (IPv4) 32 entries (IPv6)	
Reliability MTBF (years) 76.33 Environment Operating temperature humidity 32°F to 104°F (0°C to 40°C) Operating relative humidity 10% to 90%, noncondensing humidity 10% to 90%, noncondensing Nonoperating/Storage relative humidity 40°F to 158°F (-40°C to 70°C) 10% Altitude up to 16,404 ft (5 km) 10% Acoustic Pressure: 0 dB No Fan 100 - 240 VAC Electrical characteristics Frequency 50/60 Hz AC voltage 100 - 240 VAC Maximum power rating PoE power 65 W PoE+ Notes 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 65 W 9050-1; CAN/CSA-C22.2 No. 60950-1.03 Emissions FCC part 15 Class A; VCC class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-03 Management IMC - Intelligent Management-tenter timited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB Notes SFP port and copper port-tork stimultaneously, independent of each other, to provide a total of 10		•		
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relative humidityAltitudeup to 16,404 ft (5 km)AcousticPressure: 0 dB No FanAcousticPressure: 0 dB No FanAcoustic50/60 HzAC voltage100 - 240 VACMaximum power rating94 WPoE power65 W PoE+NotesMaximum 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.SafetyUL 60950; IEC 60950-1; Ht 60950-1; CAN/CSA-C22.2 No. 60950-1:03EmissionsFCC part 15 Class A; VCC U-sas A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-U-S Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2ManagementIMC - Intelligent Management MISNotesSFP port and copper ports with simultaneously, independent of each other, to provide a total of 10			-40°F to 158°F (-40°C to 70°C)	
AcousticPressure: 0 dB No FanElectrical characteristicsAcousticPrequency50/60 HzAC voltage100 - 240 VACMaximum power rating94 WPoE power65 W PoE+NotesMaximum 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 supplied by the internal power supplies.SafetyUL 60950; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1:03EmissionsFCC part 15 Class A; VCC U- Sas A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-UManagementIMC - Intelligent Manageeeet Center; limited command-line interface; Web browser; SNMP Manager; IEE 802.3 Ethernet MIBNotesSFP port and copper porters is multaneously, independent of each other, to provide a total of 10			10% to 95%, noncondensing	
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NotesMaximum 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.SafetyUL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03EmissionsFCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class AManagementIMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIBNotesSFP port and copper ports work simultaneously, independent of each other, to provide a total of 10		Maximum power rating	94 W	
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.SafetyUL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03EmissionsFCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class AManagementIMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIBNotesSFP port and copper ports work simultaneously, independent of each other, to provide a total of 10		PoE power	65 W PoE+	
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ManagementIMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIBNotesSFP port and copper ports work simultaneously, independent of each other, to provide a total of 10	-	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2		
Notes SFP port and copper ports work simultaneously, independent of each other, to provide a total of 10	Management	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager;		
	Notes	SFP port and copper ports work simultaneously, independent of each other, to provide a total of 10		

Technical Specificat	Technical Specifications		
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 1920	8G PoE+ (180W) Switch ((JG922A)	
I/O ports and slots	100BASE-TX, IEEE 802.3 2 SFP 100/1000 Mbps slo	10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type ab Type 1000BASE-T, IEEE 802.3af PoE, IEEE 802.3at) ots (IEEE 802.3u Type 100BASE-FX, IEEE 802.3z Type 1000BASE-X autosensing 10/100/1000 ports plus 2 SFP 100/1000 slots	
Additional ports and slots	1 RJ-45 console port to ac	ccess limited CLI port	
Physical characteristics	Dimensions Weight	12.99(w) x 9.06(d) x 1.73(h) in (33 x 23 x 4.4 cm) (1U height) 7.05 lb (3.2 kg)	
Memory and processor	MIPS @ 500 MHz, 32 MB	flash, 128 MB SDRAM; packet buffer size: 512 KB	
Mounting and enclosure	Mounts in an EIA standard	19-inch telco rack or equipment cabinet (hardware included)	
Performance	100 Mb Latency	< 5 μ s	
	1000 Mb Latency	< 5 μs	
	Throughput	14.8 Mpps (64-byte packets)	
	Routing/Switching capacity	20 Gbps	
	Routing table size	32 entries (IPv4), 32 entries (IPv6)	
	MAC address table size	8192 entries	
Reliability	MTBF (years)	64.51	
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)	
	Operating relative humidity	10% to 90%, noncondensing	
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	
	Nonoperating/Storage relative humidity	10% to 95%, noncondensing	
	Altitude	up to 16,404 ft (5 km)	
	Acoustic	Low-speed fan: 43.6 dB, High-speed fan: 51.5 dB; ISO 7779	
Electrical characteristics	Frequency	50/60 Hz	
	AC voltage	100 - 240 VAC	
	Maximum power rating	235 W	
	PoE power	180 W PoE+	
	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.	
Safety		EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03	
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class A		
Management	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB		

Technical Specificat	tions	
Notes	SFP port and copper ports work simultaneously, independent of each other, to provide a total of 10 Gigabit switching ports.	
Services	details on the service-leve	ard Enterprise website at http://www.hpe.com/networking/services for I descriptions and product numbers. For details about services and response contact your local Hewlett Packard Enterprise sales office.
HPE OfficeConnect 1920	16G Switch (JG923A)	
I/O ports and slots	16 RJ-45 auto-negotiating 100BASE-TX, IEEE 802.3	g 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type ab Type 1000BASE-T)
	4 SFP 100/1000 Mbps sl	ots (IEEE 802.3u Type 100BASE-FX, IEEE 802.3z Type 1000BASE-X
	Supports a maximum of 1	6 autosensing 10/100/1000 ports plus 4 SFP 100/1000 slots
Additional ports and slots	1 RJ-45 console port to ac	ccess limited CLI port
Physical characteristics	Dimensions	17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height)
	Weight	4.74 lb (2.15 kg)
Memory and processor	MIPS @ 500 MHz, 32 MB	flash, 128 MB SDRAM; packet buffer size: 512 KB
Mounting and enclosure	Mounts in an EIA standard	19-inch telco rack or equipment cabinet (hardware included)
Performance	100 Mb Latency	< 5 µ s
	1000 Mb Latency	< 5 μs
	Throughput	29.8 Mpps (64-byte packets)
	Routing/Switching capacity	40 Gbps
	Routing table size	32 entries (IPv4), 32 entries (IPv6)
	MAC address table size	8192 entries
Reliability	MTBF (years)	125
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	10% to 90%, noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	10% to 95%, noncondensing
	Altitude	up to 16,404 ft (5 km)
	Acoustic	No Fan
Electrical characteristics	Frequency	50/60 Hz
	AC voltage	100 - 240 VAC
	Maximum power rating	13 W
	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.
Safety	UL 60950; IEC 60950-1; I	EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class A	
Management	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB	
Notes	SFP ports and copper ports can work simultaneously, independent of each other, to provide a total of	

Technical Specificat	tions	
Services	20 Gigabit Ethernet-capable ports. Refer to the Hewlett Packard Enterprise website at <u>http://www.hpe.com/networking/services</u> 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 1920	24G Switch (JG924A)	
I/O ports and slots	100BASE-TX, IEEE 802.3	g 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type ab Type 1000BASE-T) lots (IEEE 802.3u Type 100BASE-FX, IEEE 802.3z Type 1000BASE-X
		4 autosensing 10/100/1000 ports plus 4 SFP 100/1000 slots
Additional ports and slots	1 RJ-45 console port to ac	
Physical characteristics	Dimensions	17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height)
	Weight	4.96 lb (2.25 kg)
Memory and processor	MIPS @ 500 MHz, 32 MB	flash, 128 MB SDRAM; packet buffer size: 512 KB
Mounting and enclosure	Mounts in an EIA standard	d 19-inch telco rack or equipment cabinet (hardware included)
Performance	100 Mb Latency	< 5 µ s
	1000 Mb Latency	< 5 µ s
	Throughput	41.7 Mpps (64-byte packets)
	Routing/Switching capacity	56 Gbps
	Routing table size	32 entries (IPv4), 32 entries (IPv6)
	MAC address table size	8192 entries
Reliability	MTBF (years)	120.48
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	10% to 90%, noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	10% to 95%, noncondensing
	Altitude	up to 16,404 ft (5 km)
	Acoustic	No Fan
Electrical characteristics		50/60 Hz
	AC voltage	100 - 240 VAC
	Maximum power rating	19 W
	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.
Safety	UL 60950; IEC 60950-1; I	EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
Emissions	FCC part 15 Class A; VCCI 2000, 61000-3-3; ICES-0	Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 03 Class A
Management	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB	
Notes	SFP ports and copper port 28 Gigabit Ethernet-capal	ts can work simultaneously, independent of each other, to provide a total of ble ports.

Technical Specificat	tions	
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 1920	24G PoE+ (180W) Switch	(JG925A)
I/O ports and slots	 24 RJ-45 auto-negotiating 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3 u Type 100BASE-TX, IEEE 802.3 b Type 1000BASE-T, IEEE 802.3 f PoE, IEEE 802.3 at) 4 SFP 100/1000 Mbps slots (IEEE 802.3 u Type 100BASE-FX, IEEE 802.3 z Type 1000BASE-X Supports a maximum of 24 autosensing 10/100/1000 ports plus 4 SFP 100/1000 slots 	
Additional ports and slots	1 RJ-45 console port to ac	ccess limited CLI port
Physical characteristics	Dimensions Weight	17.32(w) x 9.37(d) x 1.73(h) in (44 x 23.8 x 4.4 cm) (1U height) 7.5 lb (3.4 kg)
Memory and processor	MIPS @ 500 MHz, 32 MB	flash, 128 MB SDRAM; packet buffer size: 512 KB
Mounting and enclosure	Mounts in an EIA standard	19-inch telco rack or equipment cabinet (hardware included)
Performance	100 Mb Latency	< 5 μ s
	1000 Mb Latency	< 5 μs
	Throughput	41.7 Mpps (64-byte packets)
	Routing/Switching capacity	56 Gbps
	Routing table size	32 entries (IPv4), 32 entries (IPv6)
	MAC address table size	8192 entries
Reliability	MTBF (years)	68.96
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	10% to 90%, noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	10% to 95%, noncondensing
	Altitude	up to 16,404 ft (5 km)
	Acoustic	Power: 44.9 dB, Pressure: 53.3 dB; ISO 7779
Electrical characteristics	Frequency	50/60 Hz
	AC voltage	100 - 240 VAC
	Maximum power rating	235 W
	PoE power	180 W PoE+
	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.
Safety		EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class A	
Management	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB	

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Technical Specificat	ions	
Notes	SFP ports and copper ports work simultaneously, independent of each other, to provide a total of 28 Gigabit switching ports.	
Services	Refer to the Hewlett Packard Enterprise website at <u>http://www.hpe.com/networking/services</u> 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 1920	24G PoE+ (370W) Switch	(JG926A)
I/O ports and slots	24 RJ-45 auto-negotiating 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Ty 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE, IEEE 802.3at)	
		ots (IEEE 802.3u Type 100BASE-FX, IEEE 802.3z Type 1000BASE-X
		4 autosensing 10/100/1000 ports plus 4 SFP 100/1000 slots
Additional ports and slots	1 RJ-45 console port to ac	ccess limited CLI port
Physical characteristics	Dimensions	17.32(w) x 10.24(d) x 1.73(h) in (44 x 26 x 4.4 cm) (1U height)
	Weight	7.5 lb (3.4 kg)
Memory and processor	MIPS @ 500 MHz, 32 MB	flash, 128 MB SDRAM; packet buffer size: 512 KB
Mounting and enclosure	Mounts in an EIA standard	19-inch telco rack or equipment cabinet (hardware included)
Performance	100 Mb Latency	< 5 μ s
	1000 Mb Latency	< 5 µs
	Throughput	up to 41.7 Mpps (64-byte packets)
	Routing/Switching capacity	56 Gbps
	Routing table size	32 entries (IPv4), 32 entries (IPv6)
	MAC address table size	8192 entries
Reliability	MTBF (years)	65.78
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	10% to 90%, noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	10% to 95%, noncondensing
	Altitude	up to 16,404 ft (5 km)
	Acoustic	Low-speed fan: 44.9 dB, High-speed fan: 53.3 dB; ISO 7779
Electrical characteristics	Frequency	50/60 Hz
	AC voltage	100 - 240 VAC
	Maximum power rating	474 W
	PoE power	370 W PoE+
	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 an external power supply (EPS). When supplemented with the use of an HP RPS1600 Redundant Power System, up to 795 W of PoE+ can be supplied. Unit max. power consumption with RPS is 833 W.

Safety	UL 60950; IEC 60950-1; E	EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class A	
Management	IMC - Intelligent Managem IEEE 802.3 Ethernet MIB	ent Center; limited command-line interface; Web browser; SNMP Manager;
Notes	SFP ports and copper port 28 Gigabit switching ports	rs can work simultaneously, independent of each other, to provide a total of
Services	details on the service-level	ard Enterprise website at http://www.hpe.com/networking/services for I descriptions and product numbers. For details about services and response contact your local Hewlett Packard Enterprise sales office.
HPE OfficeConnect 1920	48G Switch (JG927A)	
I/O ports and slots	48 RJ-45 auto-negotiating 100BASE-TX, IEEE 802.3a	g 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type ab Type 1000BASE-T)
	•	ots (IEEE 802.3u Type 100BASE-FX, IEEE 802.3z Type 1000BASE-X 8 autosensing 10/100/1000 ports plus 4 SFP 100/1000 slots
Additional ports and	1 RJ-45 console port to ac	
slots		
Physical characteristics	Dimensions	17.32(w) x 9.37(d) x 1.73(h) in (44 x 23.8 x 4.4 cm) (1U height)
	Weight	6.94 lb (3.15 kg)
Memory and processor	MIPS @ 650 MHz, 32 MB	flash, 128 MB SDRAM; packet buffer size: 1.5 MB
Mounting and enclosure	Mounts in an EIA standard	19-inch telco rack or equipment cabinet (hardware included)
Performance	100 Mb Latency	< 5 μs
	1000 Mb Latency	< 5 µs
	Throughput	77.4 Mpps (64-byte packets)
	Routing/Switching capacity	104 Gbps
	Routing table size	32 entries (IPv4), 32 entries (IPv6)
	MAC address table size	16384 entries
Reliability	MTBF (years)	76.92
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	10% to 90%, noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	10% to 95%, noncondensing
	Altitude	
	Acoustic	Pressure: 49.7 dB; ISO 7779
Electrical characteristics	Frequency	50/60 Hz Achieved Miercom Certified Green Award
	AC voltage	100 - 240 VAC
	Maximum power rating	32 W
	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.

Safety	UL 60950 IFC 60950-1 I	EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class A	
Management	IMC - Intelligent Managem IEEE 802.3 Ethernet MIB	nent Center; limited command-line interface; Web browser; SNMP Manager;
Notes	SFP ports and copper port Gigabit Ethernet-capable p	ts work simultaneously, independent of each other, to provide a total of 52 ports.
Services	details on the service-leve	ard Enterprise website at <u>http://www.hpe.com/networking/services</u> for I descriptions and product numbers. For details about services and response contact your local Hewlett Packard Enterprise sales office.
HPE OfficeConnect 1920	48G PoE+ (370W) Switch	(JG928A)
I/O ports and slots	0 0	g 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type ab Type 1000BASE-T, IEEE 802.3af PoE, IEEE 802.3at)
	4 SFP 100/1000 Mbps sl	ots (IEEE 802.3u Type 100BASE-FX, IEEE 802.3z Type 1000BASE-X
	Supports a maximum of 48	8 autosensing 10/100/1000 ports plus 4 SFP 100/1000 slots
Additional ports and slots	1 RJ-45 console port to ac	ccess limited CLI port
Physical characteristics	Dimensions	17.32(w) x 17.32(d) x 1.73(h) in (44 x 44 x 4.4 cm) (1U height)
	Weight	9.48 lb (4.3 kg)
Memory and processor	MIPS @ 650 MHz, 32 MB	flash, 128 MB SDRAM; packet buffer size: 1.5 MB
Mounting and enclosure	Mounts in an EIA standarc	19-inch telco rack or equipment cabinet (hardware included)
Performance	100 Mb Latency	< 5 μs
	1000 Mb Latency	< 5 µs
	Throughput	up to 77.4 Mpps (64-byte packets)
	Routing/Switching capacity	104 Gbps
	Routing table size	32 entries (IPv4), 32 entries (IPv6)
	MAC address table size	16384 entries
Reliability	MTBF (years)	44.44
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	10% to 90%, noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	10% to 95%, noncondensing
	Altitude	up to 16,404 ft (5 km)
	Acoustic	Low-speed fan: 47 dB, High-speed fan: 49.3 dB; ISO 7779
Electrical characteristics	Frequency	50/60 Hz
	AC voltage	100 - 240 VAC
	Maximum power rating	492 W
	PoE power	370 W PoE+
	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 an external power supply (EPS). When supplemented with the use of an HP RPS1600 Redundant Power System, up to 795 W of PoE+ can be supplied. Unit max. power consumption with RPS is 876W.
Safety	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class A
Management	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
Notes	SFP ports and copper ports can work simultaneously, independent of each other, to provide a total of 52 Gigabit switching ports.
Services	Refer to the Hewlett Packard Enterprise website at <u>http://www.hpe.com/networking/services</u> 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 Device management

(applies to all products in RFC 2819 RMON series)

Web UI

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 802.3 Type 10BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3i 10BASE-T IEEE 802.3x Flow Control IEEE 802.3z 1000BASE-X

MIBs

RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2021 RMONv2 MIB RFC 2233 Interface MIB RFC 2233 Interfaces MIB RFC 2571 SNMP Framework MIB RFC 2572 SNMP-MPD MIB RFC 2573 SNMP-Notification MIB RFC 2573 SNMP-Target MIB RFC 2613 SMON MIB RFC 2618 RADIUS Client MIB RFC 2620 RADIUS Accounting MIB RFC 2665 Ethernet-Like-MIB RFC 2667 IP Tunnel MIB RFC 2668 802.3 MAU MIB RFC 2674 802.1p and IEEE 802.1Q Bridge MIB RFC 2737 Entity MIB (Version 2) RFC 3414 SNMP-User based-SM MIB RFC 3415 SNMP-View based-ACM MIB RFC 3418 MIB for SNMPv3

Network management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.1D (STP) RFC 1215 SNMP Generic traps

QoS/Cos

IEEE 802.1p (CoS) RFC 2474 DiffServ Precedence, including 8 queues/port

Security

IEEE 802.1X Port Based Network Access Control

Accessories

HPE OfficeConnect 1920		
Switch Series accessories	S HPE X121 1G SFP LC SX Transceiver	J4858C
	HPE X121 1G SFP LC LX Transceiver	J4859C
	HPE X121 1G SFP RJ45 T Transceiver	J8177C
	HPE X120 1G SFP LC SX Transceiver	JD118B
	HPE X120 1G SFP LC LX Transceiver	JD119B
	HPE X120 1G SFP RJ45 T Transceiver	JD089B
	Cables	
	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

Accessory Product Details

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

HPE X121 1G SFP LC SX Transceiver (J4858C) A small form-factor pluggable (SFP) Gigabit SX transceiver that provides a full-duplex Gigabit solutior up to 550 m on multimode fiber.	Physical characteristics Environment	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 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) Power consumption typical: 0.4 W Power consumption maximum: 0.7 W Type:
		• 62.5/125 μ m or 50/125 μ m (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:
		 2-220 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)
	Services	Cable length: 2-550m Fiber type: Multi Mode Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-leve descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.
HPE X121 1G SFP LC LX Transceiver (J4859C)	Ports	1 LC 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX); Duplex: full only
HPE X121 1G SFP LC LX Transceiver: An SFP format gigabit transceiver with LC connectors using LX technology.	Physical characteristics	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)
	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)
	Cabling	Type:
		 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, singlemode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2

Accessory Product Details

Type B1;

Maximum distance:

		 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)
	Notes	A mode conditioning patch cord may be needed in some multimode fiber installations. Wavelength: 1310nm
	Services	Power Consumption: < 500mW Typical 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 X121 1G SFP RJ45 T Transceiver (J8177C)	Ports	1 RJ-45 1000BASE-T port (IEEE 802.3ab Type 1000BASE-T); Duplex: full only
HPE X121 1G SFP RJ45	Physical characteristics	Dimensions: 2.71(d) x 0.54(w) x 0.55(h) in. (6.88 x 1.37 x 1.4 cm) Weight: 0.06 lb. (0.03 kg)
T Transceiver: An SFP format	Environment	Operating temperature: 32°F to 158°F (0°C to 70°C); with 100 LFM airflow over the SFP module
gigabit transceiver with RJ45 connectors using 1000BaseT technology.		Operating relative humidity: 0% to 95% @ 75°F (25°C), noncondensing Nonoperating/Storage temperature: -40°F to 185°F (-40°C to 85°C) Nonoperating/Storage relative humidity: 0% to 95% @ 77°F (25°C), noncondensing Altitude: up to 10,000 ft. (3000 km)
	Cabling	Cable type: 1000BASE-T: Category 5 (5E or better recommended), 100 Ù differential 4-pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T;
		Maximum distance:
		• 100 m
	Notes	Power consumption is nominally 1 watt. For supported platforms and minimum software requirements to support this product, see the document titled "Support for the J8177C 1000Base- T Mini-GBIC" on the "HP Mini-GBICs and SFPs" Manuals Web page. The J8177C Gigabit copper mini-GBIC is not supported on dual- personality ports. The J8177C is capable of 100 Mb operation. This is supported on only the HP E8200zl, E5400zl, and HP E6200-24G-mGBIC yl Switches using

Accessory Product	Details			
	Services	100 Mb operation. Important: The earlier J82 used in the Switch gl 20 J8177C mini-GBIC can be port, but will block access Refer to the Hewlett Pack http://www.hpe.com/ne level descriptions and pro-	or later. Use the "auto-100" port setting to enable 177B does not support 100 Mb operation. When Port 10/100/1000 Module (J4908A), the e installed in either the upper or lower mini-GBIC to the other port. card Enterprise website at etworking/services for details on the service- oduct numbers. For details about services and ea, please contact your local Hewlett Packard	
HPE X120 1G SFP LC SX	Ports	1 LC 1000BASE-SX port		
Transceiver (JD118B)	Connectivity	Connector type	LC	
		Wavelength	850 nm	
A small form-factor pluggable (SFP) Gigabit SX transceiver that	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)	
provides a full-duplex		Full configuration weigl	nt 0.04 lb. (0.02 kg)	
Gigabit solution up to 550m on a Multimode	Electrical characteristics	Power consumption typical	0.8 W	
fiber.		Power consumption maximum	1.0 W	
	Cabling	Maximum distance: • FDDI Grade distance = 220m • OM1 = 275m • OM2 = 500m • OM3 = Not Specified by standard		
		Cable length	up to 550m	
		Fiber type	Multi Mode	
	Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on th descriptions and product numbers. For details about services times in your area, please contact your local Hewlett Packard sales office.		
HPE X120 1G SFP LC LX	Ports	1 SFP 1000BASE-LX por	t (IEEE 802.3z Type 1000BASE-LX)	
Transceiver (JD119B)	Connectivity	Connector type	LC	
		Wavelength	1300 nm	
A small form-factor pluggable (SFP) Gigabig LX transceiver that provides a full duplex Gigabit solution up to 550m on MMF or 10Km	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)	
		Full configuration weig	nt 0.04 lb. (0.02 kg)	
	Electrical characteristics	Power consumption typical	0.8 W	
on SMF		Power consumption maximum	1.0 W	
	Cabling	Cable type: Either single mode or mu	ltimode;	
		Maximum distance: • 550m for Multimode		

Accessory F	Product Details		
		• 10km for Single Fiber type	Both
	Services	http://www.hpe descriptions and	ett Packard Enterprise website at .com/networking/services for details on the service-level product numbers. For details about services and response a, please contact your local Hewlett Packard Enterprise
HPE X120 1G SFP RJ45 T Transceiver (JD089B)	Ports Connectivity Physical characteristics Electrical characteristics	1 RJ-45 1000BASE-T port (IEEE 8 Connector type Dimensions Full configuration weight Power consumption typical Power consumption maximum	302.3ab Type 1000BASE-T) RJ-45 2.71(d) x 0.54(w) x 0.55(h) in. (6.88 x 1.37 x 1.4 cm) 0.07 lb. (0.03 kg) 0.8 W 1.0 W
	Cabling	Cable type: 1000BASE-T: Category 5 (5E or b	etter recommended), 100 Ù differential 4-pair unshielded ted pair (STP) balanced, complying with IEEE 802.3ab
	Services		g/services for details on the service-level descriptions and t services and response times in your area, please contact
HPE LC to LC N mode OM3 2-F 1-Pack Fiber O (AJ833A)	iber 0.5m	•	/cladding) diameter, mulitimode fiber optic, with effective of 2000 MHz/km as detailed in TIA-492AAAC for 300 m
		Maximum distan 10Gbps Transfer	ce : Rate (Ethernet): 300m
Notes		Cable Specs: Tigh fiber optic cable a	It buffered duplex fiber optic multimode OM3 50/125 um and Ethernet assembly with LC duplex connectors on one ex connectors on other end.
		2.0um C Optical g @850/1 Optical g @850/1 @850/1 CABLE: multimod 1300 nn BULK C/ Jacket M thermop Jacket C	Ilass: Bandwidth: For Laser sources: 2000/500 MHz-km 300nm. VCSEL Laser sources: 600 / 600 meters 300nm for Gigabit Ethernet compliant links. The cable is duplex zipcord graded index 50/125um de optical fiber and designed to work in both the 850 and n wavelength windows. ABLE & CABLE ASSEMBLY CONFIGURATION: laterial: Riser Grade - Low Smoke Zero Halogen

Accessory Product	Details	
		 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 LC to LC Multi- mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable (AJ834A)	Cabling	Cable type: 50/125 μm (core/cladding) diameter, mulitimode 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 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.
		 Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is 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 LC to LC Multi- mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	Cabling	Cable type: 50/125 μm (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for

Accessory Product	Details	
(AJ835A)		distances of up to 300 m;
	Notes	Maximum distance: 10Gbps Transfer Rate (Ethernet): 300m Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.
		 Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is 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 LC to LC Multi- mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable (AJ836A)	Cabling	Cable type: 50/125 μm core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;
	Notes	Maximum distance: 10Gbps Transfer Rate (Ethernet): 300m Cable Specs: This specification defines the detail requirements for a tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.
		 Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.

Accessory Product Details CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is 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: Agua 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 LC to LC Multi-Cabling Cable type: mode OM3 2-Fiber $50/125 \mu$ m (core/cladding) diameter, mulitimode fiber optic, with effective 15.0m 1-Pack Fiber modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for **Optic Cable** (AJ837A) distances of up to 300 m; Maximum distance: 10Gbps Transfer Rate (Ethernet): 300m Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um Notes fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end. Dimensions: Core diameter: 50 ± 3.0 um Cladding diameter: $125 \pm$ 2.0um Coating diameter: 245 ± 10um Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is 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: Agua 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 Refer to the Hewlett Packard Enterprise website at Services http://www.hpe.com/networking/services for details on the service-level

Accessory Product	t Details	
		descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.
HPE LC to LC Multi- mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable (AJ838A)	Cabling	Cable type: 50/125 μm (core/cladding) diameter, mulitimode 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 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.
		 Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is 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 LC to LC Multi- mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable (AJ839A)	Cabling	Cable type: 50/125 μm (core/cladding) diameter, mulitimode 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 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.
		• Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ±

Accessory Product Details

2.0um Coating diameter: 245 ± 10um

Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km ٠ @850/1300nm

	Services	 @850/1300nm. Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is 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 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 Multi-mode OM4 2 fiber 1m Cable (QK732A)	Notes	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 ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 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 Multi-mode OM4 2 fiber 2m Cable (QK733A)	Notes	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 ±3um, Cladding diameter: 125um ±2um; Coating

Accessory Product	Details	
		 diameter: 245 ± 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 Multi-mode OM4 2 fiber 5m Cable (QK734A)	Notes	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 ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 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 <u>http://www.hpe.com/networking/services</u> 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 Multi-mode OM4 2 fiber 15m Cable (QK735A)	Notes	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 ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 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,

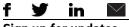
Accessory Product	Details	
	Services	Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable. • Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths > 30m • Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45 Refer to the Hewlett Packard Enterprise website at <u>http://www.hpe.com/networking/services</u> 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 Multi-mode OM4 2 fiber 30m Cable (QK736A)	Notes	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 ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 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 <u>http://www.hpe.com/networking/services</u> 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 Multi-mode OM4 2 fiber 50m Cable (QK737A)	Notes	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 ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 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 Page 32

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Summary of Changes

Date	Version History	Action	Description of Change:
07-Oct-2016	From Version 5 to 6	Changed	Minor edits on Technical Specifications
29-Apr-2016	From Version 4 to 5	Changed	Document name changed to HPE OfficeConnect 1920 Switch Series, SKU descriptions updated. Changes made on Features and Benefits and Technical Specifications.
01-Dec-2015	From Version 3 to 4	Changed	Overview and Technical Specifications updated
09-Feb-2015	From Version 2 to 3	Added	SKU JG928A added
01-Dec-2014	From Version 1 to 2	Changed	Updated Warranty and support



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