Overview

HP 3100 EI Switch Series

Models

HP 3100-8 v2 El Switch		JD318B
HP 3100-16 v2 El Switch		JD319B
HP 3100-24 v2 El Switch		JD320B
HP 3100-24-PoE v2 El Switch		JD313B
HP 3100-48 v2 Switch		JG315B
Key features	69/	
Comprehensive security control policies		
 High reliability with improved backup redundancy 		
 Simplified deployment and ease of use 		
 Highly expandable and highly reliable 		
 Diversified management modes and maintenance 		

Key features

- Comprehensive security control policies
- High reliability with improved backup redundancy
- Simplified deployment and ease of use
- Highly expandable and highly reliable •
- Diversified management modes and maintenance

Product overview

HP 3100 El series switches are Layer 2 Ethernet switches designed for enterprise networks demanding high security and intelligence. They provide 10/100 Mbps downlink and 1000 Mbps uplink Ethernet ports, and serve as access devices for 100 Mbpsto-desktop applications in enterprise networks. In metropolitan area networks or various industry networks, they connect end users or aggregate client devices with 10/100 Mbps connections, converging at a higher-capacity switch with 1000 Mbps interfaces. Features include advanced Quality of Service (QoS), rate limiting, QinQ (virtual LAN [VLAN]/VPN), SSHv2, Multicast VLAN Registration (MVR), Virtual Cable Tester (VCT), HGMP V2, GARP VLAN Registration Protocol (GVRP), access control list (ACL), media access control (MAC)-IP-port binding. Endpoint Admission Defense, voice and protocol-based VLAN. Internet Group Management Protocol snooping, and Power over Ethernet (PoE).

Features and benefits

Quality of Service (QoS)

- **Broadcast control** allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic
- Advanced classifier-based OoS classifies traffic using multiple match criteria based on Layer 2, 3, and 4 information; applies QoS policies such as setting priority level and rate limit to selected traffic on a per-port or per-VLAN basis
- **Powerful QoS feature** • supports the following congestion actions: strict priority queuing (SP), weighted round robin (WRR) queuing, and SP+WRR
- Traffic policing • supports Committed Access Rate (CAR) and line rate

Management

- Friendly port names: • allow assignment of descriptive names to ports
- Remote configuration and management: •
- enables configuration and management through a secure Web browser or a CLI located on a remote device
- Manager and operator privilege levels • provides read-only (operator) and read/write (manager) access on CLI and Web browser management interfaces **Command authorization**
 - leverages HWTACACS to link a custom list of CLI commands to an individual network administrator's login; also provides an audit trail



Overview

- Secure Web GUI
 - provides a secure, easy-to-use graphical interface for configuring the module via HTTPS
- Multiple configuration files stores easily to the flash image
- Complete session logging provides detailed information for problem identification and resolution
- SNMPv1, v2c, and v3 facilitate centralized discovery, monitoring, and secure management of networking devices
- **Remote monitoring (RMON)** uses standard SNMP to monitor essential network functions; supports events, alarm, history, and statistics group plus a private alarm extension group
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
 advertises and receives management information from adjacent devices on a network, facilitating easy mapping by
 network management applications
- Management VLAN segments traffic to and from management interfaces, including CLI/Telnet, a Web browser interface, and SNMP
- Local and Remote Intelligent Mirroring mirror traffic from a switch port to a local or remote switch port anywhere on the network; mirror ACL-selected traffic to a local switch port
- **Device Link Detection Protocol (DLDP)** monitors a cable between two switches and shuts down the ports on both ends if the cable is broken, preventing network problems such as loop
- **Troubleshooting** ingress and egress port moni

ingress and egress port monitoring enable network problem solving; virtual cable tests provide visibility into cable problems

Stacking capability

single IP address management for a stack of up to 16 switches

Connectivity

- NEW IPv6 (on v2 products):
 - Telnet v6
 - to allow IPv6 management
 - DNSv6 Client for IPv6 host management
 - SNMPv6
 - for IPv6 switch management
 - DHCPv6 Client

for automatic IPv6 address configuration of a switch

• Auto-MDIX

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

• Flow control

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

Gigabit Ethernet uplinks

are dual-personality ports for either 10/100/1000 or mini-GBIC SFP connectivity for increased connectivity flexibility

- IEEE 802.3af Power over Ethernet (PoE)
 provides up to 15.4 W per port to IEEE 802.3af-compliant PoE-powered devices such as IP phones, wireless access points,
 and security cameras
- Ethernet operations, administration and maintenance (OAM) detects data link layer problems that occurred in the "last mile" using the IEEE 802.3ah OAM standard; monitors the status of the link between two devices

Performance



Overview

- Hardware-based wire-speed access control lists (ACLs) help provide high levels of security and ease of administration without impacting network performance with a featurerich TCAM-based ACL implementation
- Gigabit Ethernet interface
 provides a connection to the network that eliminates the network as a bottleneck

Resiliency and high availability

- Separate data and control paths increase security and performance
- External redundant power supply provides high reliability
- Smart link allows 50 ms failover between links
- Spanning Tree/MSTP, RSTP provides redundant links while preventing network loops
- Port trunking

provides higher switch-to-switch throughput and link-level redundancy, with support for standards-based link aggregation (IEEE 802.3ad); supports up to 13 trunks, each with up to 8 links (ports) per trunk

• Device Link Detection Protocol (DLDP) monitors link connectivity and shuts down ports at both ends if unidirectional traffic is detected, preventing loops in STPbased networks

Layer 2 switching

- NEW PVST+ on v2 products provides greater interoperability
- 8K MAC addresses
 provide access to many Layer 2 devices
- VLAN support and tagging supports the IEEE 802.1Q, with 4,094 simultaneous VLAN IDs; supports port-based VLANs, MAC-based VLANs, and protocol-based VLANs
- GARP VLAN Registration Protocol
 allows automatic learning and dynamic assignment of VLANs
- IEEE 802.1ad QinQ and Selective QinQ increase the scalability of an Ethernet network by providing a hierarchical structure; connect multiple LANs on a highspeed campus or metro network
- Gigabit Ethernet port aggregation
 allows grouping of ports to increase overall data throughput to a remote device
- Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) protocol snooping control and manage the flooding of multicast packets in a Layer 2 network

Layer 3 services

- Address Resolution Protocol (ARP) determines the MAC address of another IP host in the same subnet
- Dynamic Host Configuration Protocol (DHCP) simplifies the management of large IP networks and supports client and server
- Loopback interface address defines an address in Routing Information Protocol (RIP) and Open Standard Path First (OSPF), improving diagnostic capability



Overview

Security

- Access control lists (ACLs)
- provide IP Layer 2 to Layer 4 traffic filtering; support global ACL, VLAN ACL, and IPv6 ACL
- Multiple user authentication methods:
 - IEEE 802.1X

uses an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server to authenticate in accordance with industry standards

- Web-based authentication provides a browser-based environment, similar to IEEE 802.1X, to authenticate clients that do not support the IEEE 802.1X supplicant
- MAC-based authentication
 - authenticates the client with the RADIUS server based on the client's MAC address
- Identity-driven security and access control:
 - Per-user ACLs

permits or denies user access to specific network resources based on user identity and time of day, allowing multiple types of users on the same network to access specific network services without risking network security or allowing unauthorized access to sensitive data

• Automatic VLAN assignment

automatically assigns users to the appropriate VLAN based on their identities

• Secure management access

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

Secure FTP

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

• Guest VLAN

provides a browser-based environment to authenticated clients that is similar to IEEE 802.1X

• Endpoint Admission Defense (EAD)

provides security policies to users accessing a network

• Port security

allows access only to specified MAC addresses, which can be learned or specified by the administrator

Port isolation

secures and adds privacy, and prevents malicious attackers from obtaining user information

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

- DHCP protection
 blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks
- Dynamic ARP protection
 blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data
- IP Source Guard filters packets on a per-port basis, which prevents illegal packets from being forwarded
- RADIUS/HWTACACS
 eases switch management security administration by using a password authentication server

Convergence

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
- facilitates easy mapping using network management applications with LLDP automated device discovery protocol

 LLDP-MED
 - is a standard extension that automatically configures network devices, including LLDP-capable IP phones
- LLDP-CDP compatibility
 receives and recognizes CDP packets from Cisco's IP phones for seamless interoperation



Overview

• IEEE 802.3af Power over Ethernet

provides up to 15.4 W per port to PoE-powered devices such as IP phones, wireless access points, and video cameras

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

automatically assigns VLAN and priority for IP phones, simplifying network configuration and maintenance

Multicast VLAN

allows multiple VLANs to receive the same IPv4 or IPv6 multicast traffic, lessening network bandwidth demand by reducing or eliminating multiple streams to each VLAN

IGMP/MLD snooping
 effectively controls and manages the flooding of multicast packets in a Layer 2 network

Device support

Cisco prestandard PoE support
 detects and provides power to Cisco's prestandard PoE devices such as wireless LAN access points and IP phones

Flexibility

• Fanless design enables quiet operation for deployment in open spaces (selected models)

Additional information

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

uses the latest advances in silicon development and shuts off unused ports to improve power efficiency

Warranty and support

- Limited Lifetime Warranty Advance hardware replacement with next-business-day delivery (available in most countries). See http://www.hp.com/networking/warrantysummary for duration details.
- Electronic and telephone support limited electronic and business-hours telephone support is available from HP for the entire warranty period; to reach our support centers, refer to www.hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer to http://www.hp.com/networking/warrantysummary
- Software releases

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



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.

•	-8 v2 EI Switch 8 autosensing 10/100 ports 1 dual-personality port; auto-sensing 10/100/1000BASE-T or SFP min=0 \ max=1 SFP Transceiver	JD318B See Configuration Note:1, 3
	1U - Height	
	-16 v2 El Switch	JD319B
	16 autosensing 10/100 ports	See Configuration
•	2 dual-personality port; auto-sensing 10/100/1000Base-T or SFP	Note:1, 3
	min=0 \ max=2 SFP Transceivers 1U - Height	
•		
	-24-PoE v2 El Switch	JD313B
	24 autosensing 10/100 PoE ports	See Configuration Note:1, 3
	2 dual-personality port; auto-sensing 10/100/1000Base-T or SFP min=0 \ max=2 SFP Transceivers	Note.1, 5
	1U - Height	
	- A - A - A - A - A - A - A - A - A - A	
	-24 v2 El Switch	JD320B
	24 autosensing 10/100 ports 2 dual-personality port; auto-sensing 10/100/1000Base-T or SFP	See Configuration Note:1, 3
	min=0 \ max=2 SFP Transceivers	
•	1U - Height	
	-48 v2 Switch	JG315B
	48 RJ-45 autosensing 10/100 ports	See Configuration
	2 SFP dual-personality 10/100/1000 ports	Note:4, 5, 6
•	2 SFP fixed Gigabit Ethernet SFP ports	
	min=0 \ max=4 SFP Transceivers	
•	1U - Height	
PDU Cab	le NA/MEX/TW/JP	JG315B#B2B
•	C15 PDU Jumper Cord (NA/MEX/TW/JP)	
	\rightarrow	
PDU Cab		JG315B#B2C
•	C15 PDU Jumper Cord (ROW)	
High Volt	t Switch/Router to Wall Power Cord	JG315B#B2E
•	NEMA L6-20P Cord (NA/MEX/JP/TW)	
Configur	ation Rules:	
Note 1	The following Transceivers install into this switch:	
	HP X115 100M SFP LC BX 10-U Transceiver	JD100A
	HP X115 100M SFP LC BX 10-D Transceiver	JD101A
	HP X115 100M SFP LC FX Transceiver	JD102B



Configuration

HP X110 100M SFP LC LX Transceiver	JD120B
HP X120 1G SFP LC BX 10-U Transceiver	JD098B
HP X120 1G SFP LC BX 10-D Transceiver	JD099B
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B

Note 3 Localization required. (See Localization Menu for list.)

Note 4	The following Transceivers install into this switch: (SFP	1000 Mbps ports only)	-/
	HP X125 1G SFP LC LH40 1310nm Transceiver		D061A
	HP X120 1G SFP LC LH40 1550nm Transceiver	С~ л	D062A
	HP X125 1G SFP LC LH70 Transceiver	COX 1	D063B
	HP X120 1G SFP RJ45 T Transceiver	II IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	D089B
	HP X120 1G SFP LC BX 10-U Transceiver	L N	D098B
	HP X120 1G SFP LC BX 10-D Transceiver	L V	D099B
	HP X120 1G SFP LC SX Transceiver	L N	D118B
	HP X120 1G SFP LC LX Transceiver	л О.У. П.	D119B

- Note 5 Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord) or #B2E. (See Localization Menu)
- Note 6 #B2E is Offered only in NA, Mexico, Taiwan and Japan.

Remarks:

Drop down under power supply should offer the following options and results: Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C ROW. (Watson Default B2B or B2C for Rack Level CTO) Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO) High Volt Switch/Router/Power Supply to Wall Power Cord - #B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)

Rack Level Integration CTO Models

Switch Chassis

HP 3100-48 v2 Switch

- 48 RJ-45 autosensing 10/100 ports
- 2 SFP dual-personality 10/100/1000 ports
- 2 SFP fixed Gigabit Ethernet SFP ports
- min=0 \ max=4 SFP Transceivers
- 1U Height

PDU Cable NA/MEX/TW/JP

• C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU Cable ROW

• C15 PDU Jumper Cord (ROW)

JG315B See Configuration Note:1, 3, 4, 5

JG315B#B2B

JG315B#B2C



Configuration

Configuration Rules:

Note 1	The following Transceivers install into this switch: (SFP 1000 Mbps ports only)	
	HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
	HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
	HP X125 1G SFP LC LH70 Transceiver	JD063B
	HP X120 1G SFP RJ45 T Transceiver	JD089B
	HP X120 1G SFP LC BX 10-U Transceiver	JD098B
	HP X120 1G SFP LC BX 10-D Transceiver	JD099B
	HP X120 1G SFP LC SX Transceiver	JD118B
	HP X120 1G SFP LC LX Transceiver	JD119B
		0%
Note 3	When Switches are Factory Racked, Then #B2B, or #B2C should be the Defaulted Cable option on the Switches.	Power

- Note 4 Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord). (See Localization Menu)
- Note 5 If the CTO Switch Chassis needs to be racked, Then the CTO Base Model needs to integrate (with #0D1) to the HP Network Rack.

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)

Transceivers

SFP Transceivers

HP X125 1G SFP LC LH40 1310nm XCVR	JD061A
HP X120 1G SFP LC LH40 1550nm XCVR	JD062A
HP X125 1G SFP LC LH70 Transceiver	JD063B
HP X120 1G SFP RJ45 T Transceiver	JD089B
HP X120 1G SFP LC BX 10-U Transceiver	JD098B
HP X120 1G SFP LC BX 10-D Transceiver	JD099B
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X110 100M SFP LC BX 10-U Transceiver	JD100A
HP X110 100M SFP LC BX 10-D Transceiver	JD101A
HP X115 100M SFP LC FX Transceiver	JD102B
HP X110 100M SFP LC LX Transceiver	JD120B

Internal Power Supplies

No Power supplies



Configuration

Cables

Multi-Mode Cables

HP .5m Multi-mode OM3 LC/LC FC Cable HP 1m Multi-mode OM3 LC/LC FC Cable HP 2 m Multimode OM3 LC/LC FC Cable HP 5 m Multimode OM3 LC/LC FC Cable HP 15 m Multimode OM3 LC/LC FC Cable HP 30 m Multimode OM3 LC/LC FC Cable HP 50 m Multimode OM3 LC/LC FC Cable HP Premier Flex LC/LC OM4 2f 1m Cbl HP Premier Flex LC/LC OM4 2f 15m Cbl HP Premier Flex LC/LC OM4 2f 15m Cbl HP Premier Flex LC/LC OM4 2f 30m Cbl HP Premier Flex LC/LC OM4 2f 50m Cbl

Switch Enclosure Options

Stacking Cable kit

HP 3600 Switch SFP Stacking Kit

Mounting Kits

HP 3100/4210-16 Rack Mount Kit

HP 3100/4210-9 Rack Mount Kit

Configuration Rules:

Note 1	The following switches require this kit when mounting into a rack: HP 3100-16 v2 EI Switch	JD319B
Note 2	The following switches require this kit when mounting into a rack: HP 3100-8 v2 El Switch	JD318B

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Remark:

The 24 and 48 port devices come with rack mount ears.

External Redundant Power Supplies

System (std 0 // max 1) User Selection (min 0 / max 1) per Switch

HP 3100 EI Switch Series

AJ833A

AJ834A

AJ835A

AJ836A

AJ837A

AJ838A

AJ839A

QK732A

QK733A

QK734A

QK735A

QK736A

QK737A

JD324B

JD321A See Configuration Note:1

JD322A See Configuration Note:2

Configuration

• Heig	P RPS1600 Redundant Power SystemJG136A• Height = 1USee Configurat• includes 1 x c13, 1600w and Power Supply portNote:2, 4		
	1600W AC Power Supply Ills into JG136A only	JG137A See Configuration Note:3	
Configuration	Rules:		
Note 2	This power supply is support only on the following switches: JD313B - HP 3100-24-PoE v2 EI Switch JG315B - HP 3100-48 v2 Switch HP 3100-24-PoE v2 EI Switch	JD313B	
Note 3	If this power supply is selected, The JG136A - HP A-RPS1600 Redundant Power System must be on order or onsite.		
Note 4	Localization required. (See Localization Menu for list.)		
External Red	undant Power Cables		
System (std	0 // max 1) User Selection (min 0 / max 1) per RPS		
HP X290 100	D A JD5 2m RPS Cable	JD187A	
HP X290 500	C 1m RPS Cable	JD184A	



Technical Specifications

HP 3100-8 V2 EI Switch (JD318E

HP 3100-8 V2 EI Switch (J	D318B)	
I/O ports and slots	8 autosensing 10/100 por or full	ts (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half
	1 dual-personality port; a	uto-sensing 10/100/1000Base-T or SFP
	1 RJ-45 serial console por	t
Additional ports and slots	1 RJ-45 serial console por	t
Physical characteristics	Dimensions	9.06(w) x 6.3(d) x 1.72(h) in (23.01 x 16 x 4.37 cm) (1U height)
	Weight	3.97 lb (1.8 kg)
Memory and processor	128 MB SDRAM; Packet bu	Iffer size: 384 KB, 16 MB flash
Mounting and enclosure	Requires angle mounting	set if rack mounted (not included)
Performance	100 Mb Latency	< 6 µs (64-byte packets)
	1000 Mb Latency	< 5µs (64-byte packets)
	Throughput	up to 2.6 Mpps
	Routing/Switching	3.6 Gbps
	capacity	
	Routing table size	16 entries (IPv4)
	MAC address table size	8192 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°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	5% to 95%, noncondensing
	Acoustic	N/A (fanless)
Electrical characteristics	Maximum heat dissipation	31 BTU/hr
	Voltage	100 - 240 VAC, rated (depending on power supply chosen)
	Maximum power rating	9 W
	Frequency	50/60 Hz
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety		Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; 2.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Compliance
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A	
Management	IMC - Intelligent Managem	ent Center; command-line interface; Web browser; SNMP Manager
Services		:: www.hp.com/networking/services for details on the service-level numbers. For details about services and response times in your area, please s office.



Technical Specifications

HP 3100-16 V2 El Switch (JD319B)	
Ports	16 autosensing 10/100 pe or full	orts (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half
	2 dual-personality ports;	auto-sensing 10/100/1000Base-T or SFP
	1 RJ-45 serial console por	t
Physical characteristics	Dimensions	14.17(w) x 6.3(d) x 1.72(h) in (35.99 x 16 x 4.37 cm) (1U height)
	Weight	5.51 lb (2.5 kg)
Memory and processor	128 MB SDRAM; Packet bu	uffer size: 384 KB, 16 MB flash
Mounting	Requires angle mounting	set if rack mounted (not included)
Performance	100 Mb Latency	< 6 µs (64-byte packets)
	1000 Mb Latency	< 5µs (64-byte packets)
	Throughput	up to 5.3 million pps
	Routing/Switching capacity	7.2 Gbps
	Routing table size	16 entries
	MAC address table size	8192 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°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	5% to 95%, noncondensing
	Acoustic	N/A (fanless)
Electrical characteristics	Maximum heat dissipation	41 BTU/hr
	Voltage	100 - 240 VAC, rated (depending on power supply chosen)
	Maximum power rating	12 W
	Frequency	50/60 Hz
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety	· · · ·	Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; 2.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Compliance
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A	
Management	IMC - Intelligent Managem	nent Center; command-line interface; Web browser; SNMP Manager
Services		t: http://www.hp.com/networking/services for details on the service-level numbers. For details about services and response times in your area, please as office.

HP 3100-24 V2 El Switch (JD320B)



Technical Specifications

I/O ports and slots	24 autosensing 10/100 po or full	orts (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half
	2 dual-personality ports;	auto-sensing 10/100/1000BASE-T or SFP
Additional ports and slots	1 RJ-45 serial console por	t
Physical characteristics	Dimensions Weight	17.32(w) x 6.3(d) x 1.72(h) in (43.99 x 16 x 4.37 cm) (1U height) 7.72 lb (3.5 kg)
Memory and processor	128 MB SDRAM; Packet bu	Iffer size: 384 KB, 16 MB flash
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)	
Performance	1000 Mb Latency	< 6 µs (64-byte packets)
	10 Gbps Latency	< 5 µs (64-byte packets)
	Throughput	up to 6.5 Mpps
	Routing/Switching capacity	8.8 Gbps
	Routing table size	16 entries (IPv4)
	MAC address table size	8192 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°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	5% to 95%, noncondensing
	Acoustic	N/A (fanless)
Electrical characteristics	Maximum heat dissipation	44 BTU/hr
	Voltage	100 - 240 VAC, rated (depending on power supply chosen
	Maximum power rating	13 W
	Frequency	50/60 Hz
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety	UL 60950; NOM-019-SCFI Mexico; EN 60950: 2000, ZB and ZC Deviations; IEC 60950: 1999, Corr Feb 2000, all national deviations; AS/NZS 60950: 2000 Australia, Russian GOST Safety Approval	
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A	
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager	
Services	Refer to the HP website at www.hp.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 HP sales office.	

HP 3100-24-PoE v2 EI Switch (JD313B)

I/O ports and slots24 autosensing 10/100 PoE ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE
802.3af PoE); Duplex: half or full



Technical Specifications

		auto-sensing 10/100/1000BASE-T or SFP
Additional ports and slots	•	
Physical characteristics	Dimensions	17.32(w) x 16.54(d) x 1.72(h) in (44 x 42 x 4.36 cm) (1U height)
	Weight	14.33 lb. (6.5 kg)
Memory and processor		iffer size: 384 KB, 16 MB flash
Mounting and enclosure		1 19 in. telco rack or equipment cabinet (hardware included)
Performance	100 Mb Latency	< 6 µs (64-byte packets)
	1000 Mb Latency	< 5 µs (64-byte packets)
	Throughput	up to 6.5 Mpps
	Routing/Switching capacity	8.8 Gbps
	MAC address table size	8192 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°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	5% to 95%, noncondensing
	Acoustic	Low-speed fan: 42.2 dB, High-speed fan: 51.5 dB
Electrical characteristics	Maximum heat dissipation	1586 BTU/hr (1673.23 kJ/hr)
	Voltage	100 - 240 VAC, rated (depending on power supply chosen)
	Maximum power rating	465 W
	PoE power	370 W PoE
	Frequency	50/60 Hz
\rightarrow	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). With DC input, the maximum power is 400 W; PoE power is 370 W.
Safety		2 No. 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Part 2; IEC 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A	
Management	IMC – Intelligent Managem	ent Center; command-line interface; Web browser; SNMP Manager
Services		:: http://www.hp.com/networking/services for details on the service-level numbers. For details about services and response times in your area, please s office.

HP 3100-48 V2 Switch (JG315B)I/O ports and slots48 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX);



Technical Specifications

	Duplex: half or full	
	2 SFP dual-personality 10 TX, IEEE 802.3ab Type 100	/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE- D0BASE-T)
	4 SFP fixed Gigabit Ethern	et SFP ports
Additional ports and slots	1 RJ-45 serial console por	t
Physical characteristics	Dimensions	17.32(w) x 10.24(d) x 1.72(h) in (43.99 x 26.01 x 4.37 cm) (1U height)
	Weight	7.72 lb (3.5 kg)
Memory and processor	256 MB SDRAM, 128 MB fl	ash; Packet buffer size: 4 MB
Mounting and enclosure	Mounts in an EIA-standard	1 19 in. telco rack or equipment cabinet (hardware included)
Performance	100 Mb Latency	< 6 µs (64-byte packets)
	1000 Mb Latency	< 5 µs (64-byte packets)
	Throughput	up to 13.1 Mpps
	Routing/Switching capacity	17.6 Gbps
	Routing table size	32 entries (IPv4)
	MAC address table size	32000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°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	5% to 95%, noncondensing
	Acoustic	Low-speed fan: 43.2 dB, High-speed fan: 50.0 dB
Electrical characteristics	Maximum heat dissipation	140 BTU/hr
	Voltage	100 - 240 VAC, rated (depending on power supply chosen)
	Maximum power rating	41 W
	Frequency	50/60 Hz
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety		Mexico; EN 60950: 2000, ZB and ZC Deviations; IEC 60950: 1999, l deviations; AS/NZS 60950: 2000 Australia, Russian GOST Safety Approval
Emissions	2003; ETSI EN 300 386 V1 EN 61000-4-3; EN 61000-	Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 .3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; .4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 1+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A
Management	IMC - Intelligent Managem	ent Center; command-line interface; Web browser; SNMP Manager
Services		www.hp.com/networking/services for details on the service-level umbers. For details about services and response times in your area, please s office.
Standards and protocols (applies to all products in series)	General protocols IEEE 802.1ad Q-in-Q IEEE 802.1ag Service Laye	er OAM



Technical Specifications

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 802.1X PAE MM.2000into.co.ks IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3af Power over Ethernet **IEEE 802.3i 10BASE-T** IEEE 802.3u 100BASE-X IEEE 802.3x Flow Control IEEE 802.3z 1000BASE-X **RFC 768 UDP** RFC 783 TFTP Protocol (revision 2) **RFC 791 IP** RFC 792 ICMP **RFC 793 TCP RFC 826 ARP** RFC 854 TELNET **RFC 951 BOOTP** RFC 959 File Transfer Protocol (FTP) MIBs IEEE 8021-PAE-MIB IEEE 8023-LAG-MIB RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2011 SNMPv2 MIB for IP RFC 2013 SNMPv2 MIB for UDP RFC 2233 Interface MIB **RFC 2273 SNMP-NOTIFICATION-MIB RFC 2571 SNMP Framework MIB** RFC 2572 SNMP-MPD MIB **RFC 2573 SNMP-Notification MIB RFC 2618 RADIUS Authentication Client MIB RFC 2620 RADIUS Accounting Client MIB** RFC 2665 Ethernet-Like-MIB RFC 2674 802.1p and IEEE 802.10 Bridge MIB RFC 2819 RMON MIB

RFC 2925 Ping MIB

- RFC 3414 SNMP-User based-SM MIB
- RFC 3418 MIB for SNMPv3
- RFC 3621 Power Ethernet MIB RFC 3826 AES for SNMP's USM MIB RFC 4133 Entity MIB (Version 3)

LLDP-EXT-DOT1-MIB LLDP-EXT-DOT3-MIB

LLDP-MIB

IPv6

RFC 1881 IPv6 Address Allocation Management (v2 models only) RFC 1887 IPv6 Unicast Address Allocation Architecture (v2 models only) RFC 1981 IPv6 Path MTU Discovery (v2 models only) RFC 2080 RIPng for IPv6 (v2 models only) RFC 2373 IPv6 Addressing Architecture (v2 models only) RFC 2375 IPv6 Multicast Address Assignments (v2 models only)



Technical Specifications

RFC 2460 IPv6 Specification (v2 models only) RFC 2461 IPv6 Neighbor Discovery (v2 models only) RFC 2462 IPv6 Stateless Address Auto-configuration (v2 models only) RFC 2463 ICMPv6 (v2 models only) RFC 2464 Transmission of IPv6 over Ethernet Networks (v2 models only) RFC 2475 IPv6 DiffServ Architecture (v2 models only) RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers (v2 models only) RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only) (v2 models only) RFC 2925 Remote Operations MIB (Ping only) (v2 models only) RFC 3056 Connection of IPv6 Domains via IPv4 Clouds (v2 models only) RFC 3162 RADIUS and IPv6 (v2 models only) RFC 3306 Unicast-Prefix-based IPv6 Multicast Addresses (v2 models only) RFC 3307 IPv6 Multicast Address Allocation (v2 models only) RFC 3315 DHCPv6 (client and relay) (v2 models only) RFC 3484 Default Address Selection for IPv6 (v2 models only) RFC 3493 Basic Socket Interface Extensions for IPv6 (v2 models only) RFC 3513 IPv6 Addressing Architecture (v2 models only) RFC 3542 Advanced Sockets API for IPv6 (v2 models only) RFC 3587 IPv6 Global Unicast Address Format (v2 models only) RFC 3596 DNS Extension for IPv6 (v2 models only) RFC 4113 MIB for UDP (v2 models only) RFC 4443 ICMPv6 (v2 models only)

MIBs

IEEE 8021-PAE-MIB IEEE 8023-LAG-MIB RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2011 SNMPv2 MIB for IP RFC 2013 SNMPv2 MIB for UDP RFC 2233 Interface MIB **RFC 2273 SNMP-NOTIFICATION-MIB RFC 2571 SNMP Framework MIB** RFC 2572 SNMP-MPD MIB RFC 2573 SNMP-Notification MIB **RFC 2618 RADIUS Authentication Client MIB RFC 2620 RADIUS Accounting Client MIB** RFC 2665 Ethernet-Like-MIB RFC 2674 802.1p and IEEE 802.1Q Bridge MIB RFC 2819 RMON MIB RFC 2925 Ping MIB RFC 3414 SNMP-User based-SM MIB RFC 3418 MIB for SNMPv3 RFC 3621 Power Ethernet MIB RFC 3826 AES for SNMP's USM MIB RFC 4133 Entity MIB (Version 3) LLDP-EXT-DOT1-MIB LLDP-EXT-DOT3-MIB LLDP-MIB

Network management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)



Technical Specifications

SNMPv1/v2c/v3

QoS/CoS

IEEE 802.1P (CoS) RFC 2474 DSCP DiffServ



HP 3100 EI Switch Series

QuickSpecs

Accessories

HP 3100 El Switch Series	Transceivers	
accessories	HP X120 1G SFP LC BX 10-U Transceiver	JD098B
	HP X120 1G SFP LC BX 10-D Transceiver	JD099B
	HP X120 1G SFP LC SX Transceiver	JD118B
	HP X120 1G SFP LC LX Transceiver	JD119B
	HP X120 1G SFP RJ45 T Transceiver	JD089B
	Cables	
	HP 3600 Switch SFP Stacking Kit	JD324B
	HP LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
	HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
	HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
	HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
	HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
	HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
	HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A
	Power Supply	
	HP RPS1600 Redundant Power System	JG136A
	HP RPS1600 1600W AC Power Supply	JG137A
	Mounting Kit	
	HP 3100/4210-16 Rack Mount Kit	JD321A
	HP 3100/4210-9 Rack Mount Kit	JD322A
	HP 3100/4210-16/-8 PoE Rack Mount Kit	JD323A
	Power cords	
	HP X290 500 C 1m RPS Cable	JD184A
	HP X290 1000 A JD5 2m RPS Cable	JD187A
	HP 3100-24-PoE v2 El Switch (JD313B)	
	HP X115 100M SFP LC FX Transceiver	JD102B
	HP X110 100M SFP LC LX Transceiver	JD120B
	HP 3100-48 V2 Switch (JG315B)	
\rightarrow	HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
	HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
	HP X125 1G SFP LC LH70 Transceiver	JD063B
	HP X120 1G SFP RJ45 T Transceiver	JD089B

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

000BASE-BX10-U); Duplex:	
46(h) in. (5.51 x 1.52 x 1.17	
\sim	
/networking/services for oduct numbers. For details , please contact your local	
000BASE-BX10-D); Duplex:	
46(h) in. (5.51 x 1.52 x 1.17	
Refer to the HP website at www.hp.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 HP sales office.	
46(h) in. (5.51 x 1.52 x 1.17	



Multimode 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 HP website at: http://www.hp.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 HP sales office.		
HP X120 1G SFP LC LX	Ports	1 SFP 1000BASE-LX port	t (IEEE 802.3z Type 1000BASE-LX)	
Transceiver (JD119B)	Connectivity	Connector type	LC	
A 116 6 1		Wavelength	1300 nm	
A small form-factor pluggable (SFP) Gigabig	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17	
LX transceiver that		, A.	cm)	
provides a full duplex		Full configuration weig	-	
Gigabit solution up to 550m on MMF or 10Km on	Electrical characteristics	Power consumption typical	0.8 W	
SMF		Power consumption maximum	1.0 W	
	Cabling	Cable type: Either single mode or mu	ultimode;	
		Maximum distance: • 550m for Multimode • 10km for Singlemode		
		Fiber type	Both	
	Services	Refer to the HP website at: www.hp.com/networking/services for on the service-level descriptions and product numbers. For deta services and response times in your area, please contact your lo sales office.		
HP 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A)	Cabling	Cable type : 50/125 μm (core/cladding) diameter, mulitimode fiber optic, with effectiv modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m		
	Notes		red duplex fiber optic multimode OM3 50/125 um ernet assembly with LC duplex connectors on one	
		• Dimensions: Co 2.0um Coating of	re diameter: 50 ± 3.0um Cladding diameter: 125 ± diameter: 245 ± 10um andwidth: For LED sources: 1500/500 MHz-km	



	Services	 Optical glass: Bandwidth: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber and designed to work in both the 850 and 1300 nm wavelength windows. BULK CABLE & CABLE ASSEMBLY CONFIGURATION: Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic. Jacket Color: Aqua for OM3 multimode per TIA 598 Boot Color: White Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters. Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46. Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg
		details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.
HP 1 m Multimode OM3 LC/LC Optical 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.
	5 N. 0-	 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
	3.0.3	 @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.



Accessory Product I	Details	
		• Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg
	Services	Refer to the HP website at www.hp.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 HP sales office.
HP 2 m Multimode OM3 LC/LC Optical Cable (AJ835A)	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 HP website at http://www.hp.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 HP sales office.
HP 5 m Multimode OM3 LC/LC Optical Cable (AJ836A)	Cabling	<b>Cable type</b> : 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	<b>Maximum distance</b> : 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.

	Services	<ul> <li>Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um</li> <li>Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.</li> <li>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.</li> <li>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.</li> <li>BULK CABLE &amp; CABLE ASSEMBLY CONFIGURATION:</li> <li>Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.</li> <li>Jacket Color: Aqua for OM3 multimode per TIA 598</li> <li>Boot Color: White</li> <li>Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths &gt; 30 meters.</li> <li>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.</li> <li>Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg</li> </ul>
HP 15 m Multimode OM3 LC/LC Optical Cable (AJ837A)	Cabling	<b>Cable type</b> : 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	<b>Maximum distance</b> : 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.
	<u> </u>	<ul> <li>Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um</li> <li>Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.</li> <li>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.</li> <li>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.</li> <li>BULK CABLE &amp; CABLE ASSEMBLY CONFIGURATION:</li> <li>Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.</li> </ul>



#### Accessory Product Details 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 HP website at http://www.hp.com/networking/services for Services details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office. HP 30 m Multimode OM3 Cabling Cable type: LC/LC Optical Cable 50/125 µm (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for (AJ838A) 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: 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 HP website at www.hp.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 HP sales office. HP 50 m Multimode OM3 Cabling Cable type: LC/LC Optical Cable 50/125 µm (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for (AJ839A)



Accessory Product [	Details	
		distances of up to 300 m;
	Notes	<b>Maximum distance</b> : 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.
		<ul> <li>Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um</li> <li>Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.</li> <li>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.</li> <li>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.</li> <li>BULK CABLE &amp; CABLE ASSEMBLY CONFIGURATION:</li> <li>Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.</li> <li>Jacket Color: Aqua for OM3 multimode per TIA 598</li> <li>Boot Color: White</li> <li>Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths &gt; 30 meters.</li> <li>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.</li> <li>Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg</li> </ul>
	Services	Refer to the HP website at http://www.hp.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 HP sales office.
HP 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.
		<ul> <li>Core Diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um</li> <li>Bandwidth: 3000 MHz-km @ 850nm (Laser)</li> <li>Jacket Color: Blue</li> <li>Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic</li> <li>Boot Color: White</li> <li>Outer Jacket Print: HP 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.</li> <li>Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths &gt;30m</li> </ul>

• Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @

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Accessory Product	Details	
		1310nm @ 23°C as tested in accordance with EIA 455-45
	Services	Refer to the HP website at www.hp.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 HP sales office.
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable (QK733A)	Notes	<ul> <li>Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.</li> <li>Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um</li> <li>Bandwidth: 3000 MHz-km @ 850nm (Laser)</li> <li>Jacket Color: Blue</li> <li>Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic</li> <li>Boot Color: White</li> <li>Outer Jacket Print: HP 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.</li> <li>Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths &gt;30m</li> <li>Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45</li> </ul>
	Services	Refer to the HP website at http://www.hp.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 HP sales office.
HP 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.
	80.16	<ul> <li>Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um</li> <li>Bandwidth: 3000 MHz-km @ 850nm (Laser)</li> <li>Jacket Color: Blue</li> <li>Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic</li> <li>Boot Color: White</li> <li>Outer Jacket Print: HP 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.</li> <li>Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths &gt;30m</li> <li>Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45</li> </ul>
	Services	Refer to the HP website at www.hp.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 HP sales office.
HP 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.
	Sarviras	<ul> <li>Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um</li> <li>Bandwidth: 3000 MHz-km @ 850nm (Laser)</li> <li>Jacket Color: Blue</li> <li>Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic</li> <li>Boot Color: White</li> <li>Outer Jacket Print: HP 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.</li> <li>Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths &gt;30m</li> <li>Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45</li> </ul>
	Services	Refer to the HP website at http://www.hp.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 HP sales office.
HP 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.
	31.051.85	<ul> <li>Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um</li> <li>Bandwidth: 3000 MHz-km @ 850nm (Laser)</li> <li>Jacket Color: Blue</li> <li>Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic</li> <li>Boot Color: White</li> <li>Outer Jacket Print: HP 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.</li> <li>Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths &gt;30m</li> <li>Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45</li> </ul>
	Services	Refer to the HP website at www.hp.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 HP sales office.



HP 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 conne on each end.		
	Services	Coating diameter: Bandwidth: 3000 Jacket Color: Blue Jacket Material: R thermoplastic Boot Color: White Outer Jacket Print 50/125um, Type O has a longitudinal cable. Insertion Loss: Les 0.003dB/m added Maximum Cable A 1310nm @ 23°C a	MHz-km @ 850nm (Laser) iser Grade – Low Smoke Zero Halogen (LSZH) : HP PremierFlex OM3+ Fiber Optic Cable, DFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also white stripe that runs the entire length of the ss than 0.5dB @ 850nm with LED source, for lengths >30m ttenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ s tested in accordance with EIA 455-45 http://www.hp.com/networking/services for	
		details on the service-level descriptions and product numbers. For deta about services and response times in your area, please contact your loc HP sales office.		
HP RPS1600 Redundant Power System (JG136A)	Ports	8 redundant power supply ports Restrictions: two -56V/25A DC(PoE); six -56V/8A DC(non-PoE)		
	Physical characteristics	Dimensions	15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm)	
		Weight	14.11 lb. (6.4 kg)	
		Full configuration weight	16.75 lb. (7.6 kg)	
	Environment	Operating temperature	14°F to 122°F (-10°C to 50°C)	
		Operating relative humidity	5% to 95%	
	02	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	
4		Nonoperating/Storage relative humidity	5% to 95%	
		Altitude	up to 13,123 ft. (4 km)	
		Acoustic	Pressure: 53 dB; ISO 7779, ISO 9296	
	<b>Electrical characteristics</b>	Voltage	100-120/200-240 VAC	
		Current	30/60 A	
		Idle power	38 W	
		Maximum power rating	3550 W	
		RPS power	3200 W	
		PoE power	2800 W	
		RPS	-55 V	
		PoE	-55 V	



# **HP 3100 EI Switch Series**

Accessory Product	Details			
		Notes	Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. With one RPS1600 Power Supply, the PRS1600 Redundant Power System can provide 1600W power output; With two PRS1600 Power Supplies, the output power is 3200W.	
	Safety	CE Labeled; UL 60950-1; IEC 60950-1; ICES-003; FCC Part 15, Subpart B; RoHS Compliant; EN 60950-1/A11; C-Tick; VCCI Class A; ROHS Compliance EN 300386		
	Services	Refer to the HP website at: www.hp.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 HP sales office.		
HP RPS1600 1600W AC Power Supply (JG137A)	Physical characteristics	Dimensions	8.19(d) x 4.96(w) x 1.63(h) in. (20.8 x 12.6 x 4.15 cm)	
		Weight	3.02 lb. (1.37 kg)	
	Environment	Operating temperature	14°F to 122°F (-10°C to 50°C)	
		Operating relative humidity	5% to 95%	
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	
		Nonoperating/Storage relative humidity	5% to 95%	
	<b>Electrical characteristics</b>	Voltage	100-120/200-240 VAC	
		Current	15/30 A	
	67	Maximum power rating	1600 W	
		Frequency	50/60 Hz	
	60.	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.	
· · · · · · · · · · · · · · · · · · ·	Services	details on the service-leve	: http://www.hp.com/networking/services for el descriptions and product numbers. For details use times in your area, please contact your local	
HP X125 1G SFP LC LH40	Ports	1 LC 1000Base-LH port (no IEEE standard exists for 1550 nm optics)		
1310nm Transceiver	Connectivity	Connector type	LC	
(JD061A)		Wavelength	1310 nm	
A small form-factor	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)	
pluggable SFP Gigabit		Full configuration weight	0.04 lb. (0.02 kg)	



	Cabling	Cable type:		
fiber.		Power consumption maximum	1.0 W	
Gigabit solution up to 70km on a single-mode	Electrical characteristics	Power consumption typical	0.8 W	
LH70 transceiver that provides a full-duplex		Full configuration weight	- •	
A small form-factor pluggable (SFP) Gigabit	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)	
A small form factor		Wavelength	1550 nm	
HP X125 1G SFP LC LH70 Transceiver (JD063B)	Ports Connectivity	1 LC 1000BASE-LH port (no <b>Connector type</b>	o IEEE standard exists for 1550 nm optics) LC	
	5/			
		about services and response times in your area, please contact your local HP sales office.		
	Services		: http://www.hp.com/networking/services for I descriptions and product numbers. For details	
		Fiber type	Single Mode	
	8	• 40km distance		
		Maximum distance:		
km on a single mode fiber.	cabing		omplying with ITU-T G.652;	
	Cabling	maximum Cable type:		
provides a full-duplex Gigabit solution up to 40		typical Power consumption	1.0 W	
LH40 transceiver that	Electrical characteristics	Full configuration weight Power consumption	0.04 lb. (0.02 kg) 0.8 W	
A small form-factor pluggable (SFP) Gigabit			cm)	
	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17	
1550nm Transceiver (JD062A)	Connectivity	Connector type Wavelength	LC 1550 nm	
HP X120 1G SFP LC LH40	Ports	1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)		
		services and response time office.	es in your area, please contact your local HP sales	
	Services	the service-level description	: www.hp.com/networking/services for details on ons and product numbers. For details about	
	_	Fiber type	Single Mode	
		40km distance	69.	
			K.	
Gigabit solution up to 40km on a single-mode fiber.		Single-mode fiber optic, complying with ITU-T G.652; Maximum distance:		
	Cabling	Cable type:		
		Power consumption maximum	1.0 W	
LH40 transceiver that provides a full duplex		typical	1.0.14	
		Power consumption	0.8 W	



#### Accessory Product Details Single-mode fiber optic, complying with ITU-T G.652; Maximum distance: 70km Fiber type Single Mode Services Refer to the HP website at: www.hp.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 HP sales office. HP X125 1G SFP Ports 1 RJ-45 1000BASE-T port (IEEE 802.3ab Type 1000BASE-T) **RJ45 T** Connectivity **Connector type** RJ-45 Transceiver Physical Dimensions 2.71(d) x 0.54(w) x 0.55(h) in. (6.88 x 1.37 x 1.4 cm) (JD089B) characteristics **Full configuration weight** 0.07 lb. (0.03 kg) Electrical **Power consumption typical** 0.8 W A small form characteristics factor pluggable **Power consumption maximum** 1.0 W (SFP) Gigabit Cabling Cable type: 1000Base-T 1000BASE-T: Category 5 (5E or better recommended), 100 Ù differential 4-pair unshielded transceiver that twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab provides a full 1000BASE-T; duplex Gigabit solution up to Maximum distance: 100m on a Cat-5+ cable. 100m Services Refer to the HP website at: http://www.hp.com/networking/services for details on the

Refer to the HP website at: http://www.hp.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 HP sales office.



# Summary of Changes

Date	Version History	Action	Description of Change:
21-Aug-2015	From Version 15 to 16	Changed	Configuration menu updated
29-May-2015	From Version 14 to 15	Changed	Configuration menu updated
20-Apr-2015	From Version 13 to	Added	Added Configuration section
	14	Changed	Updated Features and benefits, Technical Specifications and Accessories
			Updated model JG315A to JG315B
01-Dec-2014	From Version 12 to 13	Changed	Warranty and support updated
10-Jun-2013	From Version 10 to 11	Added	OM4 cables were added.
25-0ct-2012	From Version 9 to 10	Removed	Removed the information for two models.
18-0ct-2012	From Version 8 to 9	Changed	Updated Features and Benefits and also added the Mac address table size to the specifications for several models.
30-Jul-2012	From Version 7 to 8	Changed	Minor updates were made to the specifications for each model, the list of models supported in the series and Accessories.
22-Jun-2012	From Version 6 to 7	Changed	Updated the models (JD313B), Introduction, Features and Benefits, Specifications (for JD313B) and Accessories (also for JD313B).
04-Apr-2012	From Version 5 to 6	Changed	Updated the ports for JG315A.
26-Mar-2012	From Version 4 to 5	Changed	The document was revised throughout, including adding some new models.
07-Nov-2011	From Version 3 to 4	Changed	The product name was updated throughout the document.
28-Sep-2011	From Version 2 to 3	Added	Accessory Product Details was added.
16-Mar-2011	From Version 1 to 2	Changed	Specifications were revised.

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