Overview

HP 5130 EI Switch Series



HP 5130-24G-4SFP+ EI Switch



HP 5130-24G-SFP-4SFP+ EI Switch



HP 5130-48G-4SFP+ EI Switch



Overview



HP 5130-24G-PoE+-4SFP+ (370W) EI Switch



HP 5130-48G-PoE+-4SFP+ (370W) EI Switch

Models

HP 5130-24G-4SFP+ EI Switch	JG932A
HP 5130-24G-SFP-4SFP+ El Switch	JG933A
HP 5130-48G-4SFP+ EI Switch	JG934A
HP 5130-24G-PoE+-4SFP+ (370W) EI Switch	JG936A
HP 5130-48G-PoE+-4SFP+ (370W) EI Switch	JG937A

Key features

- Fixed 10G Ports for high speed Stacking or Uplinks
- Support for multiple services
- Comprehensive security control policies
- Diversified quality of service (QoS) policies
- Excellent manageability

Product overview

The HP 5130 El Switch Series is comprised of Gigabit Ethernet switches that support static and RIP Layer 3 routing, diversified services, and IPv6 forwarding, as well as provide four 10-Gigabit Ethernet (10GbE) extended interfaces. Unique Intelligent Resilient Framework (IRF) technology creates a virtual fabric by managing several switches as one logical device, which increases network resilience, performance, and availability, while reducing operational complexity. These switches provide Gigabit Ethernet



Overview

access and can be used at the edge of a network or to connect server clusters in data centers. High availability, simplified management, and comprehensive security control policies are among the key features that distinguish this series.

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 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 port, VLAN, or whole switch

Powerful QoS feature

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

Traffic policing

supports Committed Access Rate (CAR) and line rate

Management

Friendly port names

allows 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

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

sFlow (RFC 3176)

provides scalable ASIC-based wirespeed network monitoring and accounting with no impact on network performance; this allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes

Management VLAN

segments traffic to and from management interfaces, including

CLI/telnet, a Web browser interface, and SNMP

Remote intelligent mirroring

mirrors ingress/egress ACL-selected traffic from a switch port or VLAN to a local or remote switch port anywhere on the network

Device Link Detection Protocol (DLDP)



Overview

monitors a cable between two switches and shuts down the ports on both ends if the cable is broken, which prevents network problems such as loops

• IPv6 management

provides future-proof networking because the switch is capable of being managed whether the attached network is running IPv4 or IPv6; supports pingv6, tracertv6, Telnetv6, TFTPv6, DNSv6, syslogv6, FTPv6, SNMPv6, DHCPv6, and RADIUS for IPv6

Troubleshooting

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

Connectivity

Auto-MDIX

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

Flow control

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

Jumbo packet support

supports up to 9216-byte frame size to improve the performance of large data transfers

High-density connectivity

provides up to 48 fixed 10/100/1000BASE-T ports in a Layer 2/Layer 3 switch

• Optional 10GbE ports

deliver, through the use of optional modules, additional 10GbE connections, which are available for uplinks or high-bandwidth server connections; flexibly support copper, XFP, SFP+, or CX4 local connections

• IEEE 802.3at Power over Ethernet (PoE+) support

simplifies deployment and dramatically reduces installation costs by helping to eliminate the time and cost involved in supplying local power at each access point locatio

• 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

• High-bandwidth CX4 local stacking

achieves 12 Gb/s per connection when using local CX4 stacking, allowing for up to 96 Gb/s total stacking bandwidth (full duplex) in a resilient stacking configuration

Performance

Nonblocking architecture

up to 192 Gb/s nonblocking switching fabric provides wirespeed switching with up to 143 million pps throughput

Hardware-based wirespeed 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

Resiliency and high availability

Separate data and control paths

separates control from services and keeps service processing isolated; increases 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

• Rapid Ring Protection Protocol (RRPP)

connects multiple switches in a high-performance ring using standard Ethernet technology; traffic can be rerouted around the ring in less than 50 ms, reducing the impact on traffic and applications



Overview

Intelligent Resilient Framework (IRF)

creates virtual resilient switching fabrics, where two or more switches perform as a single L2 switch and L3 router; switches do not have to be co-located and can be part of a disaster-recovery system; servers or switches can be attached using standard LACP for automatic load balancing and high availability; can eliminate the need for complex protocols like Spanning Tree Protocol, Equal-Cost Multipath (ECMP), or VRRP, thereby simplifying network operation

Layer 2 switching

16K MAC address table

provides access to many Laver 2 devices

VLAN support and tagging

supports IEEE 802.1Q with 4,094 simultaneous VLAN IDs

• 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

10GbE 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

controls and manages the flooding of multicast packets in a Layer 2 network

Per-VLAN Spanning Tree Plus (PVST+)

allows each VLAN to build a separate spanning tree to improve link bandwidth usage in network environments with multiple VLANs

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

Dynamic Host Configuration Protocol (DHCP)

simplifies the management of large IP networks; supports client; DHCP Relay enables DHCP operation across subnets

Loopback interface address

defines an address that can always be reachable, improving diagnostic capability

• User Datagram Protocol (UDP) helper function

allows UDP broadcasts to be directed across router interfaces to specific IP unicast or subnet broadcast addresses and prevents server spoofing for UDP services such as DHCP

Route maps

provide more control during route redistribution; allow filtering and altering of route metrics

Layer 3 routing

Static IP routing

provides manually configured routing for both IPv4 and IPv6 networks

Security

Access control lists (ACLs)

provides IP Layer 2 to Layer 4 traffic filtering; supports global ACL, VLAN ACL, port ACL, and IPv6 ACL

IEEE 802.1X



Overview

industry-standard method of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS erver

MAC-based authentication

client is authenticated 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 providing 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 quard

protects the root bridge from malicious attacks or configuration mistakes

DHCP protection

blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks

IP source guard

helps prevent IP spoofing attacks

• Dynamic ARP protection

blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data

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

• 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

• IP multicast snooping (data-driven IGMP)



Overview

prevents flooding of IP multicast traffic

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

Additional information

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

Green initiative support

provides support for RoHS and WEEE regulations

Warranty and support

Lifetime Warranty 2.0

advance hardware replacement for as long as the original end user owns the product with next-business-day delivery (available in most countries)†

Electronic and telephone support (for Lifetime Warranty 2.0)

limited 24x7 telephone support is available from HP for the first 3 years; limited electronic and business hours telephone support isavailable 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 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

the warranty includes repair or replacement of hardware for as long as the original end-user owns the product, with next business day advance replacement (available in most countries). The disk drive included with HP AllianceOne Advanced Services and Services zl Modules, HP Threat Management Services zl Module, HP AllianceOne Extended zl Module with Riverbed Steelhead, HP MSM765 zl Mobility Controller and HP Survivable Branch Communication zl Module powered by Microsoft® Lync has a five-year hardware warranty. For details, refer to the Software license and hardware warranty statements at www.hp.com/networking/warranty.



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.

Switch Chassis

HP 5130-24G-4SFP+ EI Switch • 24 RJ-45 autosensing 10/100/1000 ports • 4 SFP+ ports • min=0 \ max=4 SFP+ Transceivers • Power supply included • 1U - Height	JG932A See Configuration Note:2, 4, 5
PDU Cable NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	JG932A#B2B
PDU Cable ROW • C15 PDU Jumper Cord (ROW)	JG932A#B2C
High Volt Switch to Wall Power Cord	JG932A#B2E
HP 5130-24G-SFP-4SFP+ EI Switch • 24 SFP ports • (Of the 24, 8 are dual-personality ports - autosensing 10/100/1000BASE-T or SFP) • min=0 \ max=24 SFP Transceivers • 4 SFP+ ports • min=0 \ max=4 SFP+ Transceivers • Must select min 1 power supply • 1U - Height	JG933A See Configuration Note:1, 2
HP 5130-48G-4SFP+ El Switch • 48 RJ-45 autosensing 10/100/1000 ports • 4 SFP+ ports • min=0 \ max=4 SFP+ Transceivers • Power supply included • 1U - Height	JG934A See Configuration Note:2, 4, 5
PDU Cable NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	JG934A#B2B
PDU Cable ROW • C15 PDU Jumper Cord (ROW)	JG934A#B2C
High Volt Switch to Wall Power Cord • NEMA L6-20P Cord (NA/MEX/JP/TW)	JG934A#B2E
HP 5130-24G-PoE+-4SFP+ EI Swch	JG936A See Configuration



Configuration	
 min=0 \ max=4 SFP+ Transceivers Power supply included 1U - Height 	Note:2, 4, 5
PDU Cable NA/MEX/TW/JP	JG936A#B2B
C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU Cable ROW	JG936A#B2C
C15 PDU Jumper Cord (ROW)	
High Volt Switch to Wall Power Cord	JG936A#B2E
NEMA L6-20P Cord (NA/MEX/JP/TW)	
HP 5130-48G-PoE+-4SFP+ El Swch	JG937A
• 48 RJ-45 autosensing 10/100/1000 ports	See
4 SFP+ ports	Configuration
min=0 \ max=4 SFP+ Transceivers	Note:2, 4, 5
Power supply included	
• 1U - Height	
PDU Cable NA/MEX/TW/JP	JG937A#B2B
C15 PDU Jumper Cord (NA/MEX/TW/JP)	303377111525
PDU Cable ROW	JG937A#B2C
C15 PDU Jumper Cord (ROW)	
High Volt Switch to Wall Power Cord	JG937A#B2E
NEMA L6-20P Cord (NA/MEX/JP/TW)	
Configuration Rules:	
Note 1 The following Transceivers install into this Switch: (SFP Ports)	
HP X115 100M SFP LC FX Transceiver	JD102B
HP X110 100M SFP LC LX Transceiver	JD120B
HP X110 100M SFP LC LH40 Transceiver	JD090A
HP X110 100M SFP LC LH80 Transceiver	JD091A
HP X115 100M SFP LC BX 10-U Transceiver	JD100A
HP X115 100M SFP LC BX 10-D Transceiver	JD101A
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
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 LH40 1550nm Transceiver	JD062A
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X125 1G SFP LC LH70 Transceiver	JD063B
HP X120 1G SFP LC LH100 Transceiver	JD103A
Note 2 The following Transceivers install into this Switch: (SFP+ Ports)	ID440D
HP X120 1G SFP LC SX Transceiver	JD118B



HP X120 1G SFP LC LX Transceiver

JD119B

Configuration

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 LH40 1550nm Transceiver	JD062A
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X125 1G SFP LC LH70 Transceiver	JD063B
HP X120 1G SFP LC LH100 Transceiver	JD103A
HP X130 10G SFP+ LC SR Transceiver	JD092B
HP X130 10G SFP+ LC LR Transceiver	JD094B
HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C

Note 4 Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord) or #B2E. (See Localization Menu)

Note 5 #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)

Box Level Integration CTO Models

CTO Solution Sku

HP 51xx CTO Switch Solution JG706A

SSP trigger sku

CTO Base Sku

HP 5130-24G-4SFP+ El Switch	JG932A
 24 RJ-45 autosensing 10/100/1000 ports 	See
4 SFP+ ports	Configuration
min=0 \ max=4 SFP+ Transceivers	Note:2, 4, 5, 6,
Power supply included	7
• 1U - Height	

PDU Cable NA/MEX/TW/JP

JG932A#B2B

• C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU Cable ROW JG932A#B2C

C15 PDU Jumper Cord (ROW)



<u> </u>	
Configuration	
 High Volt Switch to Wall Power Cord NEMA L6-20P Cord (NA/MEX/JP/TW) 	JG932A#B2E
HP 5130-24G-SFP-4SFP+ EI Switch 24 SFP ports (0f the 24, 8 are dual-personality ports - autosensing 10/100/1000BASE-T or SFP) min=0 \ max=24 SFP Transceivers 4 SFP+ ports min=0 \ max=4 SFP+ Transceivers Must select min 1 power supply 1U - Height	JG933A See Configuration Note:1, 2, 6, 7
HP 5130-48G-4SFP+ EI Switch 48 RJ-45 autosensing 10/100/1000 ports 4 SFP+ ports min=0 \ max=4 SFP+ Transceivers Power supply included 1U - Height	JG934A See Configuration Note:2, 4, 5, 6, 7
PDU Cable NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	JG934A#B2B
PDU Cable ROW C15 PDU Jumper Cord (ROW)	JG934A#B2C
High Volt Switch to Wall Power Cord	JG934A#B2E
PDU Cable NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	JG936A#B2B
PDU Cable ROW • C15 PDU Jumper Cord (ROW)	JG936A#B2C
High Volt Switch to Wall Power Cord • NEMA L6-20P Cord (NA/MEX/JP/TW)	JG936A#B2E
HP 5130-48G-PoE+-4SFP+ EI Swch • 48 RJ-45 autosensing 10/100/1000 ports • 4 SFP+ ports • min=0 \ max=4 SFP+ Transceivers • Power supply included • 1U - Height	JG937A See Configuration Note:2, 4, 5, 6, 7
PDU Cable NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	JG937A#B2B
PDU Cable ROW	JG937A#B2C



• C15 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord

JG937A#B2E

Configuration

NEMA L6-20P Cord (NA/MEX/JP/TW)

Configuration Rules:

Note 1 The following Transceivers install into this Switch: (SFP Ports) (Use #0D1 quoted to switch if switch is CTO) - if applicable

ero, ii applicable	
HP X115 100M SFP LC FX Transceiver	JD102B
HP X110 100M SFP LC LX Transceiver	JD120B
HP X110 100M SFP LC LH40 Transceiver	JD090A
HP X110 100M SFP LC LH80 Transceiver	JD091A
HP X115 100M SFP LC BX 10-U Transceiver	JD100A
HP X115 100M SFP LC BX 10-D Transceiver	JD101A
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
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 LH40 1550nm Transceiver	JD062A
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X125 1G SFP LC LH70 Transceiver	JD063B
HP X120 1G SFP LC LH100 Transceiver	JD103A

- Note 4 Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord) or #B2E. (See Localization Menu)
- Note 5 #B2E is Offered only in NA, Mexico, Taiwan and Japan.
- Note 6 If this Switch is selected, Then a Minimum of 1 factory integrated accessory must be ordered and integrated to CTO chassis. See Menu below, option must have a #0D1 to be integrated to the CTO Chassis.
- Note 7 If the Switch Chassis is to be Box Level Factory Integrated (CTO), Then the #0D1 is required on the Switch Chassis and integrated to the JG706A HP 51xx CTO Enablement. (Min 1/Max 1 Switch per SSP)

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 5130-24G-4SFP+ EI Switch

JG932A See

24 RJ-45 autosensing 10/100/1000 ports

4 SFP+ ports

Configuration Note:2, 4, 7

- min=0 \ max=4 SFP+ Transceivers
- Power supply included
- 1U Height



Configuration

PDU Cable NA/MEX/TW/JP	JG932A#B2B
C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU Cable ROW	JG932A#B2C
C15 PDU Jumper Cord (ROW)	JOSSEMHDEC
High Volt Switch to Wall Power Cord	JG932A#B2E
NEMA L6-20P Cord (NA/MEX/JP/TW)	
HP 5130-24G-SFP-4SFP+ El Switch	JG933A
24 SFP ports	See
 (Of the 24, 8 are dual-personality ports - autosensing 10/100/1000BASE-T or SFP) 	Configuration
min=0 \ max=24 SFP Transceivers	Note:1, 2, 7
4 SFP+ ports	
min=0 \ max=4 SFP+ Transceivers	
Must select min 1 power supply	
• 1U - Height	
HP 5130-48G-4SFP+ EI Switch	JG934A
48 RJ-45 autosensing 10/100/1000 ports	See
4 SFP+ ports	Configuration
min=0 \ max=4 SFP+ Transceivers	Note:2, 4, 7
Power supply included	
• 1U - Height	
PDU Cable NA/MEX/TW/JP	JG934A#B2B
C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU Cable ROW	JG934A#B2C
C15 PDU Jumper Cord (ROW)	
High Volt Switch to Wall Power Cord	JG934A#B2E
NEMA L6-20P Cord (NA/MEX/JP/TW)	
HP 5130-24G-PoE+-4SFP+ El Swch	JG936A
	See
 24 RJ-45 autosensing 10/100/1000 ports 4 SFP+ ports 	See Configuration
 4 SFP+ ports min=0 \ max=4 SFP+ Transceivers 	Note:2, 4, 7
Power supply included	, , ,
• 1U - Height	
PDU Cable NA/MEX/TW/JP	JG936A#B2B
C15 PDU Jumper Cord (NA/MEX/TW/JP)	
DDU Cable DOW	ICO364#P3C
PDU Cable ROW	JG936A#B2C
C15 PDU Jumper Cord (ROW)	
High Male C. Stale to Mall Do Cound	IC02C4#B2E



High Volt Switch to Wall Power Cord

NEMA L6-20P Cord (NA/MEX/JP/TW)

JG936A#B2E

Configuration

HP 5130-48G-PoE+-4SFP+ El Swch	JG937A
 48 RJ-45 autosensing 10/100/1000 ports 	See
• 4 SFP+ ports	Configuration
min=0 \ max=4 SFP+ Transceivers Payment and the instruction of the control	Note:2, 4, 7
 Power supply included 1U - Height 	
• 10 - Height	
PDU Cable NA/MEX/TW/JP	JG937A#B2B
C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU Cable ROW	JG937A#B2C
C15 PDU Jumper Cord (ROW)	
Configuration Rules:	
Note 1 The following Transceivers install into this Switch: (SFP Ports) (Use #0D1 quoted to switch if switch is CTO) - if applicable	
HP X115 100M SFP LC FX Transceiver	JD102B
HP X110 100M SFP LC LX Transceiver	JD120B
HP X110 100M SFP LC LH40 Transceiver	JD090A
HP X110 100M SFP LC LH80 Transceiver	JD091A
HP X115 100M SFP LC BX 10-U Transceiver	JD100A
HP X115 100M SFP LC BX 10-D Transceiver	JD101A
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
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 LH40 1550nm Transceiver	JD062A
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X125 1G SFP LC LH70 Transceiver	JD063B
HP X120 1G SFP LC LH100 Transceiver	JD103A
Note 2 The following Transceivers install into this Switch: (SFP+ Ports) (Use #0D1 or #B01 quoted to switch if switch is CTO) - if applicable	
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
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 LH40 1550nm Transceiver	JD062A
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X125 1G SFP LC LH70 Transceiver	JD063B
HP X120 1G SFP LC LH100 Transceiver	JD103A
HP X130 10G SFP+ LC SR Transceiver	JD092B
HP X130 10G SFP+ LC LR Transceiver	JD094B
HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C



Configuration

Note 4 Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord) . (See Localization Menu)

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

Note 7 If HP CTO Switch Chassis is selected for Rack Level Integration, Then the Switch needs to integrate (with #0D1) to the 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 X115 100M SFP LC FX Transceiver	JD102B
HP X110 100M SFP LC LX Transceiver	JD120B
HP X110 100M SFP LC LH40 Transceiver	JD090A
HP X110 100M SFP LC LH80 Transceiver	JD091A
HP X110 100M SFP LC BX 10-U Transceiver	JD100A
HP X110 100M SFP LC BX 10-D Transceiver	JD101A
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
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 LH40 1550nm XCVR	JD062A
HP X125 1G SFP LC LH40 1310nm XCVR	JD061A
HP X125 1G SFP LC LH70 Transceiver	JD063B
HP X120 1G SFP LC LH100 Transceiver	JD103A

SFP+ Transceivers

HP X130 SFP+ LC SR Transceiver	JD092B
HP X130 SFP+ LC LR Transceiver	JD094B
HP X240 10G SFP+ SFP+ 0.65m DAC Cable	JD095C#B01
HP X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C#B01
HP X240 10G SFP+ SFP+ 3m DAC Cable	JD097C#B01
HP X240 10G SFP+ SFP+ 5m DAC Cable	JG081C#B01

Cables

Multi-Mode Cables

HP .5m Multi-mode OM3 LC/LC FC Cable	AJ833A
HP 1m Multi-mode OM3 LC/LC FC Cable	AJ834A



Configuration

HP 2 m Multimode OM3 LC/LC FC Cable	AJ835A
HP 5 m Multimode OM3 LC/LC FC Cable	AJ836A
HP 15 m Multimode OM3 LC/LC FC Cable	AJ837A
HP 30 m Multimode OM3 LC/LC FC Cable	AJ838A
HP 50 m Multimode OM3 LC/LC FC Cable	AJ839A
HP Premier Flex LC/LC OM4 2f 1m Cbl	QK732A
HP Premier Flex LC/LC OM4 2f 2m Cbl	QK733A
HP Premier Flex LC/LC OM4 2f 5m Cbl	QK734A
HP Premier Flex LC/LC OM4 2f 15m Cbl	QK735A
HP Premier Flex LC/LC 0M4 2f 30m Cbl	QK736A
HP Premier Flex LC/LC 0M4 2f 50m Cbl	QK737A

Internal Power Supplies

(JG933A Switch Only) (std 0 // max 2) User Selection (min 1 // max 2) per switch enclosure

JD366A See Configuration Note:4

JD362A

JD362A#B2B

JD362A#B2C

HP 5500 150WAC Power Supply

HP 5500 150WDC Power Supply

includes 1 x c13, 910w

See Configuration Note:2, 3, 4

PDU Cable NA/MEX/TW/JP

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

PDU Cable ROW

C15 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord

JD362A#B2E

NEMA L6-20P Cord (NA/MEX/JP/TW)

Configuration Rules:

If #B2E is selected Then replace Localized option with #B2E for power supply and with #B2E for switch. Note 2 (Offered only in North America, Mexico, Taiwan, and Japan)

Note 3 Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord). (See Localization Menu) REMARK: When Switches/Routers are Factory Racked, Then #B2B, or #B2C should be the Defaulted Power Cable option on the Switches/Routers.

Note 4 Not supported on JG932A, JG934A, JG936A, JG937A

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)



Configuration

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)

Switch Enclosure Options

External/Redundant Power Supplies

HP RPS 800 Redundant Power Supply

• Height = 1U

includes 1 x c13, 800w

HP RPS1600 Redundant Power System

Height = 1U

• includes 1 x c13, 1600w and Power Supply port

HP RPS1600 1600W AC Power Supply

Installs into JG136A only

JG137A See Configuration Note:1, 6

JD183A See

Configuration

Note: 2, 3, 5, 7

JG136A

See

Configuration Note:2, 3, 6

Configuration Rules:

Note 1 If this power supply is selected, The JG136A - HP A-RPS1600 Redundant Power System must be on order or onsite.

Note 2 Localization required. (See Localization Menu for list.)

Note 3 Only 1 JD183A or JG136A can be connected per switch.

Note 5 Supported on JG934A

Note 6 Supported on JG934A, JG933A, JG936A, JG937A

Note 7 Supported on JD366A when used in JG933A

External/Redundant Power Cables

HP X290 RPS 500/800 list V 1m Cable

JD186A See Configuration Note:1

HP X290 1000 A JD5 2m RPS Cable

JD187A See Configuration Note:2



Configuration

HP RPS 1000/1600 A JD5 Non-PoE 2m Cable

JD188A See Configuration Note:3

Configuration Rules:

- Note 1 Supported on JG934A and JD366A when used in JG933A or JG943A, to connect to JD183A.
- Note 2 Supported on JG936A, JG937A to connect to JG136A.
- Note 3 Supported on JG934A, JG933A, to connect to JG136A.



Technical Specifications

HP 5130-24G-4SFP+ EI Switch (JG932A)

I/O ports and slots 24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX,

IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

4 SFP+ fixed 1000/10000 SFP+ ports

Additional ports and

slots

1 RJ-45 serial console port

Physical characteristics Dimensions $17.32(w) \times 6.3(d) \times 1.72(h)$ in $(44 \times 16 \times 4.36 \text{ cm})$ (10 height)

Weight 11.02 lb (5 kg)

Memory and processor 1 GB SDRAM, 128 MB flash; packet buffer size: 1.5 MB

The state of the s

Mounting and enclosure Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)

Performance 1000 Mb Latency $< 5 \mu s$ 10 Gbps Latency $< 1.5 \mu s$

Throughput 96 Mpps
Routing/Switching 128 Gbps

capacity

Routing table size 512 entries (IPv4), 256 entries (IPv6)

MAC address table size 16384 entries

Reliability MTBF (years) 98.1

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 High-speed fan: 39.7 dB; ISO 7779

Electrical characteristics Frequency 50/60 Hz

Maximum heat

64/88 BTU/hr (67.52/92.84 kJ/hr)

dissipation

AC voltage 100 - 240 VAC

Current 2 A
Maximum power rating 26 W
Idle power 19 W

Notes Idle power is the actual power consumption of the device with no ports

connected.

Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and

all modules populated.

Safety UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2;

IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR

Subchapter J; NOM; ROHS Compliance

Emissions EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; EN 61000-4-11:2004; ANSI C63.4-2009; EN

61000-3-3:2008; VCCI V-4/2012.04; EN 6100-3-2:2006+A1:2009 + A2:2009; EN 61000-3-

2:2006+A1:2009+A2:2009; EN 61000-4-3:2006; EN 61000-4-4:2012; EN 61000-4-5:2006; EN 61000-4-6:2009; AS/NZS CISPR 22:2009 Class A; CISPR 22:2008 Class A; EN 55022:2010 Class A; EN 61000-4-

29: 2000; CISPR 24:2010; EN 300 386 V1.6.1; VCCI V-3/2013.04 Class A

Technical Specifications

Immunity Generic EN 55024

ESD EN300 386

Management IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager

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 5130-24G-SFP-4SFP+ EI Switch (JG933A)

16 SFP 100/1000 Mbps ports I/O ports and slots

8 SFP dual-personality ports; 100/1000BaseX or 100/1000BASET RJ-45 Combo Ports

4 SFP+ fixed 1000/10000 SFP+ ports

Additional ports and

slots

Services

1 RJ-45 serial console port

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Physical characteristics Dimensions 17.32(w) x 14.17(d) x 1.72(h) in (44 x 36 x 4.36 cm) (1U height)

> Weight 17.64 lb (8 kg)

Memory and processor 1 GB SDRAM, 128 MB flash; packet buffer size: 1.5 MB

Mounting and enclosure Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)

Performance 1000 Mb Latency < 5 us

> 10 Gbps Latency < 1.5 µs Throughput 96 Mpps **Routing/Switching** 128 Gbps

capacity

512 entries (IPv4), 256 entries (IPv6)

MAC address table size 16384 entries

Reliability MTBF (years) 52.79

Environment Operating temperature 32°F to 113°F (0°C to 45°C) 10% to 90%, noncondensing

humidity

Routing table size

Operating relative

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: 47.1 dB, High-speed fan: 50.7 dB; ISO 7779

Electrical characteristics Frequency 50/60 Hz

> **Maximum heat** 102/204 BTU/hr (107.61/215.22 kJ/hr), for AC Powered units. For DC powered units heat dissipation is 130BTU/hr min, 232BTU/hr max. dissipation

AC voltage 100 - 240 VAC DC voltage -48 to -60 VDC

Current 5 A Maximum power rating 60 W Idle power 30 W

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

Technical Specifications

with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and

all modules populated.

Power Ratings for AC Power Suppply indicated above. For DC input power, Idle Power is 38W and Max is 68W.

DC Max input current is 8A. Units are supplied without a power supply. Customer must buy 1 or 2 JD362A(AC) or JD366A (DC) power supply.

Safety UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2;

IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR

Subchapter J; NOM; ROHS Compliance

Emissions EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; EN 61000-4-11:2004; ANSI C63.4-2009; EN

61000-3-3:2008; VCCI V-4/2012.04; EN 6100-3-2:2006+A1:2009 + A2:2009; EN 61000-3-

2:2006+A1:2009+A2:2009; EN 61000-4-3:2006; EN 61000-4-4:2012; EN 61000-4-5:2006; EN 61000-4-6:2009; AS/NZS CISPR 22:2009 Class A; CISPR 22:2008 Class A; EN 55022:2010 Class A; EN 61000-4-

29: 2000; CISPR 24:2010; EN 300 386 V1.6.1; VCCI V-3/2013.04 Class A

Generic **Immunity** EN 55024

> **ESD** EN300 386

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 5130-48G-4SFP+ EI Switch (JG934A)

I/O ports and slots 48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX,

IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

4 SFP+ fixed 1000/10000 SFP+ ports

Additional ports and

slots

1 RJ-45 serial console port

Physical characteristics **Dimensions** 17.32(w) x 10.24(d) x 1.72(h) in (44 x 26 x 4.36 cm) (1U height)

> Weight 11.02 lb (5 kg)

Memory and processor

1 GB SDRAM, 128 MB flash; packet buffer size: 3 MB

Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included) Mounting and enclosure

Performance 1000 Mb Latency < 5 µs 10 Gbps Latency < 1.5 µs

Throughput 130.9 Mpps Routing/Switching 176 Gbps

capacity

Routing table size 512 entries (IPv4), 256 entries (IPv6)

MAC address table size 16384 entries

Reliability MTBF (years) 61.4

Environment Operating temperature 32°F to 113°F (0°C to 45°C) Operating relative 10% to 90%, noncondensing

humidity

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

temperature

Nonoperating/Storage 5% to 95%, noncondensing

relative humidity

Acoustic Low-speed fan: 43.1 dB, High-speed fan: 53.4 dB; ISO 7779

Electrical characteristics Frequency

Maximum heat 130/153 BTU/hr (137.15/161.42 kJ/hr), For AC powered units. For DC

Technical Specifications

dissipation powered units heat dissipation is 130BTU/hr min, 171 BTU/hr max

AC voltage 100 - 240 VAC **DC voltage** -48 to -60 VDC

Current10 AMaximum power rating45 WIdle power38 W

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.

Power ratings for AC power indicated above. Current used is 5A Max when DC Power used. For DC input power, idle power is 38W, maximum DC power

used is 50W.

Safety UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2;

IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR

Subchapter J; NOM; ROHS Compliance

Emissions EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; EN 61000-4-11:2004; ANSI C63.4-2009; EN

61000-3-3:2008; VCCI V-4/2012.04; EN 6100-3-2:2006+A1:2009 + A2:2009; EN 61000-3-

2:2006+A1:2009+A2:2009; EN 61000-4-3:2006; EN 61000-4-4:2012; EN 61000-4-5:2006; EN 61000-4-6:2009; AS/NZS CISPR 22:2009 Class A; CISPR 22:2008 Class A; EN 55022:2010 Class A; EN 61000-4-

29: 2000; CISPR 24:2010; EN 300 386 V1.6.1; VCCI V-3/2013.04 Class A

Immunity Generic EN 55024

ESD EN300 386

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 5130-24G-PoE+-4SFP+ (370W) EI Switch (JG936A)

I/O ports and slots 24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX,

IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

4 SFP+ fixed 1000/10000 SFP+ ports

Additional ports and

slots

1 RJ-45 serial console port

Physical characteristics Dimensions $17.32(w) \times 11.81(d) \times 1.72(h)$ in $(44 \times 30 \times 4.37 \text{ cm})$ (10 height)

Weight 17.64 lb (8 kg)

Memory and processor 1 GB SDRAM, 128 MB flash; packet buffer size: 1.5 MB

Mounting and enclosure Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)

Performance 1000 Mb Latency < $5 \mu s$ 10 Gbps Latency < $1.5 \mu s$ Throughput 96 Mpps Routing/Switching 128 Gbps

capacity

Routing table size 512 entries (IPv4), 256 entries (IPv6)

MAC address table size 16384 entries

Reliability MTBF (years) 48.3

Environment Operating temperature 32°F to 113°F (0°C to 45°C)



Technical Specifications

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

Low-speed fan: 49.8 dB, High-speed fan: 52.9 dB; ISO 7779 Acoustic

Electrical characteristics Frequency 50/60 Hz

> **Maximum heat** dissipation

102/1569 BTU/hr (107.61/1655.29 kJ/hr), for AC Power. For DC Power min heat dissipation is 85BTU/hr and max heat dissipation is 2559 BTU/hr

AC voltage 100 - 240 VAC

Current 10 A Maximum power rating 460 W Idle power N/A 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. When supplemented with the use of an HP RPS1600 Redundant Power System, up to 740 W of PoE+ can be supplied.

Max current rating for DC power is 25A. AC Input power is 30W typical, and 460W max(including 370W PoE+ consumption. DC Input voltage range is -54 to -57VDC. Total DC input power is 25W Typical and 790W with 740W PoE+ Power consumption. DC Input voltage range is -54VDC to -57VDC. DC

Input Source is the HP RPS1600.

UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; Safety

IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR

Subchapter J; NOM; ROHS Compliance

Emissions EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; EN 61000-4-11:2004; ANSI C63.4-2009; EN

61000-3-3:2008; VCCI V-4/2012.04; EN 6100-3-2:2006+A1:2009 + A2:2009; EN 61000-3-

2:2006+A1:2009+A2:2009; EN 61000-4-3:2006; EN 61000-4-4:2012; EN 61000-4-5:2006; EN 61000-4-6:2009; AS/NZS CISPR 22:2009 Class A; CISPR 22:2008 Class A; EN 55022:2010 Class A; EN 61000-4-

29: 2000; CISPR 24:2010; EN 300 386 V1.6.1; VCCI V-3/2013.04 Class A

Immunity Generic EN 55024

> **ESD** EN300 386

Management IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager.

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 5130-48G-PoE+-4SFP+ (370W) EI Switch (JG937A)

I/O ports and slots 48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX,

IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

4 SFP+ fixed 1000/10000 SFP+ ports

Additional ports and

slots

Services

1 RJ-45 serial console port

Physical characteristics **Dimensions** 17.32(w) x 14.17(d) x 1.72(h) in (44 x 36 x 4.36 cm) (1U height)

> 17.64 lb (8 kg) Weight

1 GB SDRAM, 128 MB flash; packet buffer size: 3 MB Memory and processor



Technical Specifications

Mounting and enclosure Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)

Performance 1000 Mb Latency < 5 µs

> 10 Gbps Latency < 1.5 µs Throughput 130.9 Mpps Routing/Switching 176 Gbps

capacity

Routing table size 512 entries (IPv4), 256 entries (IPv6)

MAC address table size 16384 entries

Reliability MTBF (years) 37.1

Environment Operating temperature 32°F to 113°F (0°C to 45°C) Operating relative 10% to 90%, noncondensing

humidity

temperature

Nonoperating/Storage

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 50.6 dB, High-speed fan: 54.6 dB; ISO 7779

Electrical characteristics Frequency 50/60 Hz

> **Maximum heat** 160/1671 BTU/hr (168.8/1762.91 kJ/hr), for AC power. For DC power min dissipation heat dissipation is 147BTU/hr and 3037BTU/hr max.

100 - 240 VAC **AC** voltage

Current 10 A 490 W Maximum power rating Idle power 47 W PoE power 370 W PoE+

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. PoE Power is the power supplied by the internal power supply. When supplemented with the use of an HP RPS1600 Redundant Power System, up to 740 W of PoE+ can be supplied. Max current rating for DC power is 25A. AC Input power is 47W typical, and 490W max(including 370W PoE+ consumption. DC Input voltage range is -54 to -57VDC. Total DC input power is 43W typical and 890W with 800W PoE+ Power consumption. DC Input voltage range is -54VDC to -57VDC. DC

Input Source is the HP RPS1600. UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2;

IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR

Subchapter J; NOM; ROHS Compliance

Emissions EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; EN 61000-4-11:2004; ANSI C63.4-2009; EN

61000-3-3:2008; VCCI V-4/2012.04; EN 6100-3-2:2006+A1:2009 + A2:2009; EN 61000-3-

2:2006+A1:2009+A2:2009: EN 61000-4-3:2006: EN 61000-4-4:2012: EN 61000-4-5:2006: EN 61000-4-6:2009; AS/NZS CISPR 22:2009 Class A; CISPR 22:2008 Class A; EN 55022:2010 Class A; EN 61000-4-

29: 2000; CISPR 24:2010; EN 300 386 V1.6.1; VCCI V-3/2013.04 Class A

Immunity Generic EN 55024

> **ESD** EN300 386

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

Safety

Technical Specifications

descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Standards and protocols Device management

(applies to all products in series)

RFC 1157 SNMPv1/v2c RFC 1305 NTPv3

RFC 2573 (SNMPv3 Applications)

RFC 2819 (RMON groups Alarm, Event, History and RFC 3306 Unicast-Prefix-based IPv6 Multicast

Statistics only)

RFC 3416 (SNMP Protocol Operations v2)

HTML and telnet management Multiple Configuration Files SNMP v3 and RMON RFC support SSHv1/SSHv2 Secure Shell

TACACS/TACACS+

Web UI

General protocols

IEEE 802.1ad Q-in-Q IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs

IEEE 802.1s Multiple Spanning Trees

IEEE 802.1w Rapid Reconfiguration of Spanning

Tree

IEEE 802.1X PAE

IEEE 802.3 Type 10BASE-T IEEE 802.3ab 1000BASE-T

IEEE 802.3ad Link Aggregation Control Protocol

IEEE 802.3ae 10-Gigabit Ethernet 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 1213 Management Information Base for Network Management of TCP/IP-based internets

RFC 1305 NTPv3

RFC 1350 TFTP Protocol (revision 2)

RFC 1519 CIDR

RFC 1812 IPv4 Routing

RFC 1866 Hypertext Markup Language - 2.0

RFC 2131 DHCP

RFC 2236 IGMP Snooping

RFC 2616 HTTP Compatibility v1.1

RFC 2665 Definitions of Managed Objects for the

Ethernet-like Interface Types

IPv6

RFC 2461 IPv6 Neighbor Discovery

RFC 2463 ICMPv6

RFC 3162 RADIUS and IPv6

Addresses

RFC 3315 DHCPv6 (client and relay)

MIBs

RFC 1212 Concise MIB Definitions

RFC 1213 MIB II RFC 1493 Bridge MIB

RFC 1757 Remote Network Monitoring MIB

RFC 2096 IP Forwarding Table MIB

RFC 2233 Interface MIB

RFC 2571 SNMP Framework MIB

RFC 2572 SNMP-MPD MIB

RFC 2573 SNMP-Notification MIB

RFC 2573 SNMP-Target MIB

RFC 2574 SNMP USM MIB

RFC 2618 RADIUS Authentication Client MIB RFC 2620 RADIUS Accounting Client MIB

RFC 2665 Ethernet-Like-MIB

RFC 2668 802.3 MAU MIB

RFC 2674 802.1p and IEEE 802.1Q Bridge MIB

RFC 2737 Entity MIB (Version 2)

RFC 2819 RMON MIB

RFC 2863 The Interfaces Group MIB

RFC 2925 Ping MIB

RFC 3414 SNMP-User based-SM MIB RFC 3415 SNMP-View based-ACM MIB

RFC 3418 MIB for SNMPv3 RFC 3621 Power Ethernet 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) SNMPv1/v2c/v3

Security

IEEE 802.1X Port Based Network Access Control

RFC 1492 TACACS+

RFC 2138 RADIUS Authentication RFC 2139 RADIUS Accounting RFC 2865 RADIUS (client only) RFC 2866 RADIUS Accounting Secure Sockets Layer (SSL)

SSHv2 Secure Shell



Technical Specifications

RFC 2668 Definitions of Managed Objects for IEEE 802.3 Medium Attachment Units (MAUs) RFC 2865 Remote Authentication Dial In User Service (RADIUS) **RFC 2866 RADIUS Accounting** RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3) RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP) RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP) RFC 3576 Ext to RADIUS (CoA only) RFC 4213 Basic IPv6 Transition Mechanisms 802.1r - GARP Proprietary Attribute Registration Protocol (GPRP)



Accessories

HP FlexFabric 5700 Switch Series accessories

Transceivers	
HP X110 100M SFP LC LH40 Transceiver	JD090A
HP X110 100M SFP LC LH80 Transceiver	JD091A
HP X115 100M SFP LC FX Transceiver	JD102B
HP X110 100M SFP LC LX Transceiver	JD120B
HP X115 100M SFP LC BX 10-U Transceiver	JD100A
HP X115 100M SFP LC BX 10-D Transceiver	JD101A
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 LC LH100 Transceiver	JD103A
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X120 1G SFP LC BX 10-U Transceiver	JD098B
HP X120 1G SFP LC BX 10-D Transceiver	JD099B
HP X120 1G SFP RJ45 T Transceiver	JD089B
HP X130 10G SFP+ LC SR Transceiver	JD092B
HP X130 10G SFP+ LC LR Transceiver	JD094B
HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HP X130 10G SFP+ LC LH 80km Transceiver	JG915A
THE AT SO TO SEE TO SEE THE SECOND THE AT SECOND THE SE	303.13.1
Cables	
	4.1000.4
HP1(to1(Multi-mode ()M3 2-Fiber() 5m 1-Pack Fiber ()btic (able	AIRKA
HP LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 1 0m 1-Pack Fiber Optic Cable	AJ833A A 1834A
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 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ834A AJ835A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ834A AJ835A AJ836A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ834A AJ835A AJ836A AJ837A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ834A AJ835A AJ836A AJ837A AJ838A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A QK733A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A QK733A QK734A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A QK733A QK734A QK735A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A QK733A QK733A QK735A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A QK733A QK734A QK735A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A QK733A QK733A QK735A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A QK733A QK734A QK735A QK736A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable HP S130-24G-SFP-4SFP+ EI Switch (JG933A) HP 5500 150WAC Power Supply	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A QK733A QK733A QK735A QK736A QK737A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A QK733A QK734A QK735A QK736A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable HP S130-24G-SFP-4SFP+ EI Switch (JG933A) HP 5500 150WAC Power Supply	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A QK733A QK733A QK735A QK736A QK737A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM4 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable HP S130-24G-SFP-4SFP+ EI Switch (JG933A) HP 5500 150WAC Power Supply HP 5500 150WDC Power Supply	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A QK733A QK733A QK735A QK736A QK737A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable HP 5130-24G-SFP-4SFP+ EI Switch (JG933A) HP 5500 150WAC Power Supply HP 5500 150WDC Power Supply	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A QK733A QK734A QK735A QK736A QK737A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable HP 5130-24G-SFP-4SFP+ EI Switch (JG933A) HP 5500 150WAC Power Supply HP 5500 150WDC Power Supply HP S9800 Redundant Power Supply HP RPS 800 Redundant Power Supply HP RPS 800 Redundant Power System	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A QK733A QK734A QK735A QK736A QK737A JD362A JD366A JD183A JG136A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP Premier Flex LC/LC Multi-mode OM4 2 Fiber 1m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable HP 5130-24G-SFP-4SFP+ EI Switch (JG933A) HP 5500 150WAC Power Supply HP 5500 150WDC Power Supply HP 5130-48G-4SFP+ EI Switch (JG934A) HP RPS 800 Redundant Power Supply	AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A QK733A QK734A QK735A QK736A QK737A



Accessories HP X290 1000 A JD5 Non-PoE 2m RPS Cable JD188A HP 5130-24G-PoE+-4SFP+ (370W) EI Switch (JG936A) **HP RPS1600 Redundant Power System** JG136A HP RPS1600 1600W AC Power Supply JG137A HP X290 1000 A JD5 2m RPS Cable JD187A HP 5130-48G-PoE+-4SFP+ (370W) EI Switch (JG937A) HP RPS1600 Redundant Power System JG136A HP RPS1600 1600W AC Power Supply JG137A HP X290 1000 A JD5 2m RPS Cable JD187A

To learn more, visit: www.hp.com/networking

© Copyright 2010-2014 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

