

Overview

HPE FlexNetwork 5130 EI Brazil Switch Series



HPE FlexNetwork 5130 24G 4SFP+ EI Brazil Switch (JG975A)



HPE FlexNetwork 5130 48G 4SFP+ EI Brazil Switch (JG976A)

Overview



HPE FlexNetwork 5130 24G PoE+ 4SFP+ (370W) EI Brazil Switch (JG977A)



HPE FlexNetwork 5130 48G PoE+ 4SFP+ (370W) EI Brazil Switch (JG978A)

Models

HPE FlexNetwork 5130 24G 4SFP+ EI Brazil Switch	JG975A
HPE FlexNetwork 5130 48G 4SFP+ EI Brazil Switch	JG976A
HPE FlexNetwork 5130 24G PoE+ 4SFP+ (370W) EI Brazil Switch	JG977A
HPE FlexNetwork 5130 48G PoE+ 4SFP+ (370W) EI Brazil Switch	JG978A

Overview

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 HPE FlexNetwork 5130 EI Brazil Switch Series comprises 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) interfaces. Unique Intelligent Resilient Fabric (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 access and can be used at the edge of a network or to connect server clusters in small data centers. High availability, simplified management, and comprehensive security control policies are among the key features that distinguish this series. These products are manufactured in Brazil.

Features and benefits

Software-defined networking

- OpenFlow
 - supports OpenFlow 1.3 specification to enable SDN by allowing separation of the data (packet forwarding) and control (routing decision) paths

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

- 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

Overview

- stores easily to the flash image
- Complete session logging
 - provides detailed information for problem identification and resolution
- 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 wire speed 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)
 - monitors a cable between two compatible 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
- HPE Intelligent Management Center (IMC)
 - integrates fault management, element configuration, and network monitoring from a central vantage point; built-in support for third-party devices enables network administrators to centrally manage all network elements with a variety of automated tasks, including discovery, categorization, baseline configurations, and software images; the software also provides configuration comparison tools, version tracking, change alerts, and more
- Network management
 - offers SNMPv1/v2c/v3, with Traps, and RADIUS Authentication Client MIB (RFC 2618); embedded HTML management tool with secure access.

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

- Nonblocking architecture
up to 176 Gb/s nonblocking switching fabric provides wire speed switching with up to 130.9 million pps throughput
- Hardware-based wire speed access control lists (ACLs)
help provide high levels of security and ease of administration without impacting network performance with a feature-rich 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 under 100ms failover between links
- Spanning Tree/PVST+, MSTP, RSTP
provides redundant links while preventing network loops, supports up to 64 instances of MSTP
- Intelligent Resilient Fabric (IRF)
creates virtual resilient switching fabrics, where two to nine 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 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 Layer 2 devices
- VLAN support and tagging
supports IEEE 802.1Q with 4,094 simultaneous VLAN IDs
- IEEE 802.1ad QinQ and selective QinQ
increase the scalability of an Ethernet network by providing a hierarchical structure; connect multiple LANs on a high-speed campus or metro network
- 10GbE port aggregation
allows grouping of ports to increase overall data throughput to a remote device
- Device Link Detection Protocol (DLDP)
monitors link connectivity and shuts down ports at both ends if unidirectional traffic is detected, preventing loops in STP-based networks
- Jumbo Frame Support
improves the performance of large data transfers; supports frame size of up to 9K-bytes

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

Overview

- provide more control during route redistribution; allow filtering and altering of route metrics
- DHCP server
 - centralizes and reduces the cost of IPv4 address management

Layer 3 routing

- Static IP routing
 - provides manually configured routing for both IPv4 and IPv6 networks
- Routing Information Protocol (RIP)
 - uses a distance vector algorithm with UDP packets for route determination; supports RIPv1 and RIPv2 routing; includes loop protection

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
 - industry-standard method of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server
- 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, HTTPS and/or SNMPv3
- Secure FTP/SCP
 - 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
- 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
- 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



Overview

- 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 802.3at Power over Ethernet (PoE+)
provides up to 30 W per port that allows support of the latest PoE+-capable devices such as IP phones, wireless access points, and security cameras, as well as any IEEE 802.3af-compliant end device; eliminates the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments
- 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)
prevents flooding of IP multicast traffic

Device support

- Prestandard PoE Support
detects and provides power to 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
- Unified Hewlett Packard Enterprise Comware operating system with modular architecture
provides an easy-to-enhance-and-extend feature set, which doesn't require whole-scale changes; all switching, routing, and security platforms leverage the Comware OS, a common unified modular operating system
- Energy Efficient Ethernet (EEE) Support
Reduces power consumption in accordance with IEEE 802.3az

Warranty and support

- Limited Lifetime Warranty
See <http://www.hpe.com/networking/warrantysummary> for warranty and support information included with your product purchase.
- Software releases
to find software for your product, refer to <http://www.hpe.com/networking/support>; for details on the software releases available with your product purchase, refer to <http://www.hpe.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.

Switch Chassis

HPE FlexNetwork 5130 24G 4SFP+ EI Brazil Switch

- 24 RJ-45 autosensing 10/100/1000 ports
- 4 SFP+ ports
- min=0 \ max=4 SFP+ Transceivers
- Power supply included
- 1U – Height

JG975A
See
Configuration
NOTE: 2, 6,
7

HPE FlexNetwork 5130 48G 4SFP+ EI Brazil Switch

- 48 RJ-45 autosensing 10/100/1000 ports
- 4 SFP+ ports
- min=0 \ max=4 SFP+ Transceivers
- Power supply included
- 1U - Height

JG976A
See
Configuration
NOTE: 2, 6,
7

HPE FlexNetwork 5130 24G PoE+ 4SFP+ (370W) EI Brazil Switch

- 24 RJ-45 autosensing 10/100/1000 ports
- 4 SFP+ ports
- min=0 \ max=4 SFP+ Transceivers
- Power supply included
- 1U - Height

JG977A
See
Configuration
NOTE: 2, 6,
7

HPE FlexNetwork 5130 48G PoE+ 4SFP+ (370W) EI Brazil Switch

- 48 RJ-45 autosensing 10/100/1000 ports
- 4 SFP+ ports
- min=0 \ max=4 SFP+ Transceivers
- Power supply included
- 1U - Height

JG978A
See
Configuration
NOTE: 2, 6,
7

Configuration Rules:

Note 2 The following Transceivers install into this Switch: (SFP+ Ports)

HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP LC LH100 Transceiver	JD103A
HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C

Configuration

HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C

Note 6 Only available in Brazil.

Note 7 Localization required. (See Localization Menu)

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)

Transceivers

SFP Transceivers

HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LX Transceiver	JD120B
HPE X110 100M SFP LC LH40 Transceiver	JD090A
HPE X110 100M SFP LC LH80 Transceiver	JD091A
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP LC LH100 Transceiver	JD103A

SFP+ Transceivers

HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C

Cables

Multi-Mode Cables



Configuration

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

Internal Power Supplies

HPE FlexNetwork 5500 150WDC Power Supply	JD366A See Configuration NOTE: 4
HP 5500 150WAC Power Supply <ul style="list-style-type: none"> includes 1 x c13, 910w 	JD362A See Configuration NOTE: 2, 3, 4
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	JD362A#B2B
PDU Cable ROW <ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	JD362A#B2C
High Volt Switch to Wall Power Cord <ul style="list-style-type: none"> NEMA L6-20P Cord (NA/MEX/JP/TW) 	JD362A#B2E

Configuration Rules:

- Note 2** If #B2E is selected Then replace Localized option with #B2E for power supply and with #B2E for switch . (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, JG975A, JG976A, JG977A, JG978A.

Configuration

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)

Switch Enclosure Options

External/Redundant Power Supplies

HPE RPS 800 Redundant Power Supply

- Height = 1U
- includes 1 x c13, 800w

JD183A
See
Configuration
NOTE:2, 3, 5, 7

HPE RPS1600 Redundant Power System

- Height = 1U
- includes 1 x c13, 1600w and Power Supply port

JG136A
See
Configuration
NOTE:2, 3, 6

HPE RPS1600 1600W AC Power Supply

- Installs into JG136A only

JG137A
See
Configuration
NOTE:1, 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, JG976A

Note 6 Supported on JG934A, JG976A, JG933A, JG936A, JG977A, JG937A, JG978A, JG938A, JG939A, JG940A, JG941A.

Note 7 Supported on JG933A only when connected to DC Power Supply JD366A with cable JD186A.

External/Redundant Power Cables

HPE X290 500 V 1m RPS Cable

JD186A



Configuration

See
Configuration
NOTE: 1

HPE X290 1000 A JD5 2m RPS Cable

JD187A
See
Configuration
NOTE: 2

HPE X290 1000 A JD5 NonPoE 2m RPS Cable

JD188A
See
Configuration
NOTE: 3

Configuration Rules:

- Note 1 Supported on JG934A, JG976A and JD366A when used in JG933A to connect to JD183A.
- Note 2 Supported on JG936A, JG977A, JG937A, JG978A, JG940A, JG941A to connect to JG136A.
- Note 3 Supported on JG934A, JG976A, JG933A, JG938A, JG939A to connect to JG136A.

Technical Specifications

HPE FlexNetwork 5130 24G 4SFP+ EI Brazil Switch (JG975A)

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) x 6.3(d) x 1.72(h) in (44 x 16 x 4.36 cm) (1U height)
	Weight	11.02 lb (5 kg)
Memory and processor	1 GB SDRAM; Packet buffer size: 1.5 MB, 512 MB flash	
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)	
Performance	IPv6 Ready Certified	
	1000 Mb Latency	< 5 μ s
	10 Gbps Latency	< 1.5 μ s
	Throughput	up to 96 Mpps
	Routing/Switching capacity	128 Gbps
	Routing table size	512 entries (IPv4), 256 entries (IPv6)
	MAC address table size	16384 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	High-speed fan: 39.7 dB; ISO 7779
Electrical characteristics	Frequency	50/60 Hz
	Maximum heat dissipation	64/88 BTU/hr (67.52/92.84 kJ/hr)
	Voltage	100 - 240 VAC, rated (depending on power supply chosen)
	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.

Technical Specifications

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 Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

HPE FlexNetwork 5130 48G 4SFP+ EI Brazil Switch (JG976A)

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; Packet buffer size: 3 MB, 512 MB flash	
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)	
Performance	IPv6 Ready Certified	
	1000 Mb Latency	< 5 μ s
	10 Gbps Latency	< 1.5 μ s
	Throughput	up to 130.9 Mpps
	Routing/Switching capacity	176 Gbps
	Routing table size	512 entries (IPv4), 256 entries (IPv6)
	MAC address table size	16384 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

Technical Specifications

	Acoustic	Low-speed fan: 43.1 dB, High-speed fan: 53.4 dB; ISO 7779
Electrical characteristics	Frequency	50/60 Hz
	Maximum heat dissipation	130/153 BTU/hr (137.15/161.42 kJ/hr), For AC powered units. For DC powered units heat dissipation is 130BTU/hr min, 171 BTU/hr max
	Voltage	100 - 240 VAC, rated -48 to -60 VDC, rated (depending on power supply chosen)
	Current	10 A
	Maximum power rating	45 W
	Idle power	38 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 Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

HPE FlexNetwork 5130 24G PoE+ 4SFP+ (370W) EI Brazil Switch (JG977A)

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) x 11.81(d) x 1.72(h) in (44 x 30 x 4.37 cm) (1U height)
	Weight	17.64 lb (8 kg)



Technical Specifications

Memory and processor	1 GB SDRAM; Packet buffer size: 1.5 MB, 512 MB flash
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)
Performance	<p>IPv6 Ready Certified</p> <p>1000 Mb Latency < 5 μs</p> <p>10 Gbps Latency < 1.5 μs</p> <p>Throughput up to 96 Mpps</p> <p>Routing/Switching capacity 128 Gbps</p> <p>Routing table size 512 entries (IPv4), 256 entries (IPv6)</p> <p>MAC address table size 16384 entries</p>
Environment	<p>Operating temperature 32°F to 113°F (0°C to 45°C)</p> <p>Operating relative humidity 10% to 90%, noncondensing</p> <p>Nonoperating/Storage temperature -40°F to 158°F (-40°C to 70°C)</p> <p>Nonoperating/Storage relative humidity 5% to 95%, noncondensing</p>
Electrical characteristics	<p>Acoustic Low-speed fan: 49.8 dB, High-speed fan: 52.9 dB; ISO 7779</p> <p>Frequency 50/60 Hz</p> <p>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</p> <p>Voltage 100 - 240 VAC, rated (depending on power supply chosen)</p> <p>Current 10 A</p> <p>Maximum power rating 460 W</p> <p>PoE power 370 W PoE+</p> <p>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 HPE 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 HPE RPS1600.</p>
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;



Technical Specifications

	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 Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

HPE FlexNetwork 5130 48G PoE+ 4SFP+ (370W) EI Brazil Switch (JG978A)

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 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; Packet buffer size: 3 MB, 512 MB flash	
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)	
Performance	IPv6 Ready Certified	
	1000 Mb Latency	< 5 μ s
	10 Gbps Latency	< 1.5 μ s
	Throughput	up to 130.9 Mpps
	Routing/Switching capacity	176 Gbps
	Routing table size	512 entries (IPv4), 256 entries (IPv6)
	MAC address table size	16384 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
Electrical	Acoustic	Low-speed fan: 50.6 dB, High-speed fan: 54.6 dB; ISO 7779
	Frequency	50/60 Hz

Technical Specifications

characteristics	<p>Maximum heat dissipation 160/1671 BTU/hr (168.8/1762.91 kJ/hr), for AC power. For DC power min heat dissipation is 147BTU/hr and 3037BTU/hr max.</p> <p>Voltage 100 - 240 VAC, rated (depending on power supply chosen)</p> <p>Current 10 A</p> <p>Maximum power rating 490 W</p> <p>Idle power 47 W</p> <p>PoE power 370 W PoE+</p> <p>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 HPE 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 HPE RPS1600.</p>
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	<p>Generic EN 55024</p> <p>ESD EN300 386</p>
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

Standards and protocols (applies to all products in series)

Device Management	<p>RFC 1157 SNMPv1/v2c</p> <p>RFC 1305 NTPv3</p> <p>RFC 2573 (SNMPv3 Applications)</p> <p>RFC 2819 (RMON groups Alarm, Event, History and Statistics only)</p>
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Technical Specifications

- 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 802.1ak Multiple Registration Protocol (MRP) and Multiple VLAN Registration Protocol (MVRP)
- IEEE 802.1D MAC Bridges
- IEEE 802.1p Priority
- IEEE 802.1Q (GVRP)
- 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 (LACP)
- IEEE 802.3ae 10-Gigabit Ethernet
- IEEE 802.3af Power over Ethernet
- IEEE 802.3at Power over Ethernet Plus
- IEEE 802.3az Energy Efficient 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 855 Telnet Option Specification
- RFC 894 IP over Ethernet
- RFC 950 Internet Standard Subnetting Procedure
- RFC 951 BOOTP
- RFC 1027 Proxy ARP
- RFC 1042 IP Datagrams
- RFC 1071 Computing the Internet Checksum
- RFC 1123 Requirements for Internet Hosts
- 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 1533 DHCP Options and BOOTP Vendor Extensions
- RFC 1591 DNS (client only)
- RFC 1812 IPv4 Routing
- RFC 1866 Hypertext Markup Language - 2.0
- RFC 2131 DHCP
- RFC 2236 IGMP Snooping

Technical Specifications

RFC 2462 IPv6 Stateless Address Autoconfiguration
RFC 2474 Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers
RFC 2475 Architecture for Differentiated Services
RFC 2597 Assured Forwarding PHB Group
RFC 2616 HTTP Compatibility v1.1
RFC 2665 Definitions of Managed Objects for the Ethernet-like Interface Types
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 3246 Expedited Forwarding PHB
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 3416 Protocol Operations for SNMP
RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)
RFC 3576 Ext to RADIUS (CoA only)
RFC 3587 IPv6 Global Unicast Address Format
RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6
RFC 4213 Basic IPv6 Transition Mechanisms
RFC 4291 IP Version 6 Addressing Architecture
RFC 4541 Considerations for Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) Snooping Switches
RFC 4575 A Session Initiation Protocol (SIP) Event Package for Conference State
RFC 5095 Deprecation of Type 0 Routing Headers in IPv6
802.1r - GARP Proprietary Attribute Registration Protocol (GPRP)

IP multicast

RFC 1112 IGMPv1
RFC 3376 IGMPv3

IPv6

RFC 1981 IPv6 Path MTU Discovery
RFC 2460 IPv6 Specification
RFC 2461 IPv6 Neighbor Discovery
RFC 2463 ICMPv6
RFC 2464 Transmission of IPv6 over Ethernet Networks
RFC 3162 RADIUS and IPv6
RFC 3306 Unicast-Prefix-based IPv6 Multicast Addresses
RFC 3315 DHCPv6 (client and relay)
RFC 3484 Default Address Selection for IPv6
RFC 3736 Stateless Dynamic Host Configuration Protocol (DHCP) Service for IPv6
RFC 4291 IP Version 6 Addressing Architecture
RFC 4293 MIB for IP
RFC 4443 ICMPv6
RFC 4861 IPv6 Neighbor Discovery
RFC 4862 IPv6 Stateless Address Auto-configuration

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

Technical Specifications

- 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 2579 Textual Conventions for SMIv2
- RFC 2580 Conformance Statements for SMIv2
- 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

QoS/CoS

- RFC 2474 DS Field in the IPv4 and IPv6 Headers
- RFC 3260 New Terminology and Clarifications for DiffServ

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

Accessories

HPE FlexNetwork 5130 EI Brazil Switch Series accessories

Transceivers

HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LX Transceiver	JD120B
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP LC LH100 Transceiver	JD103A
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C

Cables

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

HPE FlexNetwork 5130 48G 4SFP+ EI Brazil Switch (JG976A)

HPE RPS 800 Redundant Power Supply ¹	JD183A
HPE RPS1600 Redundant Power System ¹	JG136A
HPE RPS1600 1600W AC Power Supply ¹	JG137A
HPE X290 500 V 1m RPS Cable	JD186A
HPE X290 1000 A JD5 NonPoE 2m RPS Cable	JD188A

HPE FlexNetwork 5130 24G PoE+ 4SFP+ (370W) EI Brazil Switch (JG977A)

HPE RPS1600 Redundant Power System ¹	JG136A
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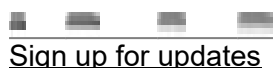
Accessories

HPE RPS1600 1600W AC Power Supply ¹	JG137A
HPE X290 1000 A JD5 2m RPS Cable	JD187A
HPE FlexNetwork 5130 48G PoE+ 4SFP+ (370W) EI Brazil Switch (JG978A)	
HPE RPS1600 Redundant Power System ¹	JG136A
HPE RPS1600 1600W AC Power Supply ¹	JG137A
HPE X290 1000 A JD5 2m RPS Cable	JD187A

¹ Products covered by 1 year warranty. See details at www.hpe.com/networking/warrantyquickref

Summary of Changes

Date	Version History	Action	Description of Change
20-May-2016	From Version 3 to 4	Changed	Document name changed to HPE FlexNetwork 5130 EI Brazil Switch Series. SKU descriptions updated. Updates made on Overview, Technical Specifications and Accessories.
01-Dec-2015	From Version 2 to 3	Changed	Overview and Technical Specifications updated
28-Aug-2015	From Version 1 to 2	Changed	Updated Features and Benefits and Technical Specifications



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Products within this series are IPv6 Ready certified. See the Specifications section of this series for more information.

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