QuickSpecs

Overview

HPE FlexNetwork 5130 HI Switch Series

The HPE FlexNetwork 5130 HI 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. This switch also supports dual modular power supplies.



HPE FlexNetwork 5130 HI Switch Series

Models

HPE FlexNetwork 5130 24G 4SFP+ 1-slot HI Switch	JH323A
HPE FlexNetwork 5130 48G 4SFP+ 1-slot HI Switch	JH324A
HPE FlexNetwork 5130 24G PoE+ 4SFP+ 1-slot HI Switch	JH325A
HPE FlexNetwork 5130 48G PoE+ 4SFP+ 1-slot HI Switch	JH326A

Key features

- Scalable with 10 Gigabit uplinks and 9-chassis IRF with up to 80GB/s stacking bandwidth
- PoE+ for up to 30 Watts of PoE power per port on all ports simultaneously
- 4 convenient built-in SFP+ 10GbE uplinks provide performance for bandwidth hungry applications
- Openflow 1.3 support
- MACsec support



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

Management

Remote configuration and management

enables configuration and management through a secure CLI located on a remote device

• Manager and operator privilege levels

provides read-only (operator) and read/write (manager) access on CLI management interfaces

• Command authorization

leverages RADIUS/HWTACACS to link a custom list of CLI commands to an individual network administrator's login; also provides an audit trail

• Multiple configuration files

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 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 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

SNMP v1/v2c/v3, MIB-II with Traps, and RADIUS Authentication Client MIB (RFC 2618); embedded HTML management tool with secure access

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

• Endpoint Admission Defense (EAD)

provides security policies to users accessing a network

IPv6 source guard

help prevent IPv6 spoofing attacks using ND Snooping as well as DHCPv6 Snooping

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 Layers 2, 3, and 4 information; applies QoS policies such as setting priority level and rate limit to selected traffic on a port, VLAN, or entire 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

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/Lite 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

Nonblocking architecture

up to 216 Gb/s nonblocking switching fabric provides wirespeed switching with up to 190.5 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 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

• Smart Link

allows under 100ms failover between links

Spanning Tree/PVST+, MSTP, RSTP

provides redundant links while preventing network loops

• 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

• Internal Dual Redundant Power Supply

provides high reliability by keeping network up while delivering up to 1440 Watts of PoE+

Layer 2 switching

• 32K 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

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

DHCP server

centralizes and reduces the cost of IPv4 address management

Policy Based Routing

provides a mechanism for indicating and executing forwarding/routing of data packets based on the policies defined by the network administrator

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

Policy Based Routing

provides a mechanism for indicating and executing forwarding/routing of data packets based on the policies defined by the network administrator

Convergence

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

facilitates easy mapping using network management applications with LLDP automated device discovery protocol

• LLDP-MED (Media Endpoint Discovery)

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

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

• Multicast Source Discovery Protocol (MSDP)

allows multiple PIM-SM domains to interoperate; is used for inter-domain multicast applications

Device support

• Pre-standard PoE support

detects and provides power to pre-standard PoE devices such as wireless LAN access points and IP phones

Manageability

Dual flash images

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

• Multiple configuration files

allow multiple configuration files to be stored to a flash image

• IPv6 management

future-proofs networking, as the switch is capable of being managed whether the attached network is running IPv4 or IPv6; supports pingv6, tracertv6, Telnetv6, TFTPv6, DNSv6, and ARPv6

Troubleshooting

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

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

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.

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Switch Cl	nassis	
Rule#	Description	SKU
2	HPE FlexNetwork 5130 24G 4SFP+ 1-slot HI Switch	JH323A
	• 24 RJ-45 autosensing 10/100/1000 ports	
	4 fixed Gigabit Ethernet SFP+ ports	
	• (min=0 \ max=4 SFP/SFP+ Transceivers)	
	1 port expansion module slots	
	 Must select min 1 power supply 	
	• 1U - Height	
2	HPE FlexNetwork 5130 48G 4SFP+ 1-slot HI Switch	JH324A
	• 48 RJ-45 autosensing 10/100/1000 ports	
	4 fixed Gigabit Ethernet SFP+ ports	
	• (min=0 \ max=4 SFP/SFP+ Transceivers)	
	1 port expansion module slots	
	Must select min 1 power supply	
	• 1U - Height	
2	HPE FlexNetwork 5130 24G PoE+ 4SFP+ 1-slot HI Switch	JH325A
	 24 RJ-45 autosensing 10/100/1000 PoE+ ports 	
	4 fixed Gigabit Ethernet SFP+ ports	
	• (min=0 \ max=4 SFP/SFP+ Transceivers)	
	1 port expansion module slots	
	Must select min 1 power supply	
	• 1U - Height	
2	HPE FlexNetwork 5130 48G PoE+ 4SFP+ 1-slot HI Switch	JH326A
	 48 RJ-45 autosensing 10/100/1000 PoE+ ports 	
	 4 fixed Gigabit Ethernet SFP+ ports 	
	(min=0 \ max=4 SFP/SFP+ Transceivers)	
	 1 port expansion module slots 	
	 Must select min 1 power supply 	
	• 1U - Height	
	Configuration Rules	
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 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
	HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
	HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
	HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A
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Rack Level Integration CTO Models Switch Chassis

Rule#	Description	SKU
2, 10	HPE FlexNetwork 5130 24G 4SFP+ 1-slot HI Switch	JH323A
	 24 RJ-45 autosensing 10/100/1000 ports 	
	 4 fixed Gigabit Ethernet SFP+ ports 	
	• (min=0 \ max=4 SFP/SFP+ Transceivers)	
	1 port expansion module slots	
	Must select min 1 power supply	
2.10	• 1U - Height	11.170 / A
2, 10	HPE FlexNetwork 5130 48G 4SFP+ 1-slot HI Switch	JH324A
	 48 RJ-45 autosensing 10/100/1000 ports 4 fixed Gigabit Ethernet SFP+ ports 	
	• (min=0 \ max=4 SFP/SFP+ Transceivers)	
	1 port expansion module slots	
	Must select min 1 power supply	
	• 1U - Height	
2, 10	HPE FlexNetwork 5130 24G PoE+ 4SFP+ 1-slot HI Switch	JH325A
	 24 RJ-45 autosensing 10/100/1000 PoE+ ports 	
	 4 fixed Gigabit Ethernet SFP+ ports 	
	 (min=0 \ max=4 SFP/SFP+ Transceivers) 	
	 1 port expansion module slots 	
	Must select min 1 power supply	
2.10	• 1U - Height	11.170 / A
2, 10	HPE FlexNetwork 5130 48G PoE+ 4SFP+ 1-slot HI Switch	JH326A
	48 RJ-45 autosensing 10/100/1000 PoE+ ports fixed Circlett Ethernet SERU ports A fixed Circlett Ethernet SERU ports	
	 4 fixed Gigabit Ethernet SFP+ ports (min=0 \ max=4 SFP/SFP+ Transceivers) 	
	• 1 port expansion module slots	
	Must select min 1 power supply	
	• 1U - Height	
	Configuration Rules	
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 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
	HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
	HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
	HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A
10	If HPE CTO Switch Chassis is selected for Rack Level Integration, Then the Switch needs to integrate	
	(with #0D1) to the Rack.	

NOTE: Clic UNB - If an option is ordered with #0D1/#B01, then the switch must have #0D1 option.

Enter the fo	ollowing menu selections as integrated to the CTO Model X above if order is factory built.	
Modules	System (std 0 // max 1) User Selection (min 0 // max 1)	
Remarks	Description	SKU
	HPE FlexNetwork 5130/5510 10GBASE-T 2p Module	JH156A
	No Transceivers	
	HPE FlexNetwork 5130/5510 10GbE SFP+ 2p Module	JH157A
NOTE:	min=0 \ max=2 SFP+ Transcievers	
	The following Transceivers install into this Module: (SFP+ Ports)	
	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
	HPE X130 10G SFP+ LC LH 80km Transceiver	JG915A
	HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A
	HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
	HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
	HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A
Transceive	ers	
Remarks	Description	SKU
	SFP Transceivers	
	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 LH100 Transceiver	JD103A
	SFP+ Transceivers	
	HPE X130 10G SFP+ LC SR Transceiver	JD092B
NOTE:	For use Only with the JH157A Module	
	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
	HPE X2AO 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
NOTE:	R1122P02 or later code for AOC cable support	
	HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
NOTE:	R1122P02 or later code for AOC cable support	
	HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A
NOTE:	R1122P02 or later code for AOC cable support	

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Cables Rule #	Description	SKU
Rule #	Console Cables	SKO
	(std 0 // max 99) User Selection (min 0 // max 99) per switch	
	Aruba X2C2 RJ45 to DB9 Console Cable	JL448A
	Multi-Mode Cables	3211070
	(std 0 // max 99) User Selection (min 0 // max 99) per switch	
	HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
	HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
	HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
	HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
	HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
	HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
	HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A
	Internal Power Supplies	
	(std 0 // max 2) User Selection (min 1 // max 2) per switch enclosure	
1	HPE X361 150W 48-60VDC to 12VDC Power Supply	JD366B
	HP 5500 150W AC Power Supply PDU NA, JP or TW	JD362A#B2B
	C15 PDU Jumper Cord (NA/MEX/TW/JP)	
	HP 5500 150W AC Power Supply PDU ROW	JD362A#B2C
	C15 PDU Jumper Cord (ROW)	
	HP 5500 150W AC Power Supply United States 220 volt	JD362A#B2E
	 NEMA L6-20P Cord (NA/MEX/JP/TW) 	
1, 3, 4	HPE X361 150W 100-240VAC to 12VDC Power Supply	JD362B
	• includes 1 x c13, 910w	
	HPE X361 150W 100-240VAC to 12VDC Power Supply PDU NA, JP or TW	JD362B#B2B
	C13 PDU Jumper Cord (NA/MEX/TW/JP)	
	HPE X361 150W 100-240VAC to 12VDC Power Supply PDU ROW	JD362B#B2C
	C13 PDU Jumper Cord (ROW)	
	HPE X361 150W 100-240VAC to 12VDC Power Supply United States 220 volt	JD362B#B2E
	 HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
	HPE X361 150W 100-240VAC to 12VDC Power Supply	JD362B#AC3
	No Localized Power Cord Selected	
2, 3, 4	HPE X362 720W 100-240VAC to 56VDC PoE Power Supply	JG544A
	• includes 1 x c13, 720w	
	HPE X362 720W 100-240VAC to 56VDC PoE Power Supply PDU Cable NA/JP/TW	JG544A#B2B
	C15 PDU Jumper Cord (NA/MEX/TW/JP)	
	HPE X362 720W 100-240VAC to 56VDC PoE Power Supply PDU Cable ROW	JG544A#B2C
	C15 PDU Jumper Cord (ROW)	
	HPE X362 720W 100-240VAC to 56VDC PoE Power Supply 220V N.A english localized	JG544A#B2E
	NEMA L6-20P Cord (NA/MEX/JP/TW)	
2, 3, 4	HPE X362 1110W 115-240VAC to 56VDC PoE Power Supply	JG545A
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Configuration Information

• includes 1 x c13, 1100w

America, Mexico, Taiwan, and Japan)

HPE X362 1110W 115-240VAC to 56VDC PoE Power Supply PDU Cable NA/JP/TW JG545A#B2B • C15 PDU Jumper Cord (NA/MEX/TW/JP) HPE X362 1110W 115-240VAC to 56VDC PoE Power Supply PDU Cable ROW JG545A#B2C • C15 PDU Jumper Cord (ROW) HPE X362 1110W 115-240VAC to 56VDC PoE Power Supply 220V N.A. - english localized JG545A#B2E NEMA L6-20P Cord (NA/MEX/JP/TW) **Configuration Rules** Rule# SKU **Description** This power supply is only supported on JH323A and JH324A. This power supply is only supported on JH 325A and JH326A. 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) 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:** 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

Related Options

HPE FlexNetwork 5130 HI Switch Series accessories

HPE FlexN	letwork 5130 HI Switch Series accessories	
Remarks	Description	SKU
	Modules	
	HPE FlexNetwork 5130/5510 10GBASE-T 2p Module	JH156A
	HPE FlexNetwork 5130/5510 10GbE SFP+ 2p Module	JH157A
	Transceivers	
	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 X2AO 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
	HPE X2AO 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
	HPE X2AO 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A
	HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
	HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A
	HPE X130 10G SFP+ LC LH 80km Transceiver	JG915A
	Cables	
	Aruba X2C2 RJ45 to DB9 Console Cable	JL448A
	HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
	HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
	HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
	HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
	HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
	HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A
	HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
	HPE FlexNetwork 5130 24G 4SFP+ 1-slot HI Switch (JH323A)	
	HPE X361 150W 100-240VAC to 12VDC Power Supply	JD362B
	HPE X361 150W 48-60VDC to 12VDC Power Supply	JD366B
	HPE FlexNetwork 5130 48G 4SFP+ 1-slot HI Switch (JH324A)	
	HPE X361 150W 100-240VAC to 12VDC Power Supply	JD362B
	HPE X361 150W 48-60VDC to 12VDC Power Supply	JD366B
	HPE FlexNetwork 5130 24G PoE+ 4SFP+ 1-slot HI Switch (JH325A)	
	HPE X362 720W 100-240VAC to 56VDC PoE Power Supply	JG544A
	HPE X362 1110W 115-240VAC to 56VDC PoE Power Supply	JG545A
	HPE FlexNetwork 5130 48G PoE+ 4SFP+ 1-slot HI Switch (JH326A)	
	HPE X362 720W 100-240VAC to 56VDC PoE Power Supply	JG544A
	HPE X362 1110W 115-240VAC to 56VDC PoE Power Supply	JG545A

Related Options

NOTE:

- ¹ Module supports MACsec
- ² Transceiver cannot be used on optional module JH157A
- ³ Requires R1122P02 code version or later
- ⁴ Transceiver can only be used on optional module JH157A
- ⁵ Products covered by 1 year warranty. See details at www.hpe.com/networking/warrantyquickref

HPE FlexNetwork 5130 24G 4SFP+ 1-slot HI Switch (JH323A)

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); Media Type: Auto-MDIX

Duplex: ports 1-8 support 10BASE-T/100BASE-TX (half or full), 1000BASE-T (full only).

Ports 9-24 support 10BASE-T/100BASE-TX, 1000BASE-T (full only)

4 SFP+ 10GbE ports

1 port expansion module slot

Supports a maximum of 6 SFP+ ports or 2 1/10GBASE-T ports, with optional module

Additional ports and

1 dual-personality (RJ-45 or mini USB) serial console port

slots

1 RJ-45 out-of-band management port

1 USB 2.0

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Airflow direction is Front (port side) to Back (power cord side) Fan tray

17.32(w) x 14.17(d) x 1.72(h) in (44.00 x 36.00 x 4.37 cm) (1U height) Physical characteristics **Dimensions**

> Weight 16.53 lb (7.5 kg) shipping weight

Memory and processor

2 GB SDRAM; Packet buffer size: 4 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 µs 10 Gbps Latency < 3 µs

Throughput up to 154.8 Mpps

Routing/Switching

capacity

168 Gbps

Routing table size 4096 entries (IPv4), 2048 entries (IPv6)

MAC address table size

32768 entries

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

Operating relative

humidity

10% to 90%, noncondensing

Non-operating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Non-operating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 52.8 dB, High-speed fan: 66.7 dB; ISO 7779

Electrical characteristics Frequency 50/60 Hz

> Maximum heat 365 BTU/hr (385.08 kJ/hr), Ranges from 167 BTU/hr to 392 BTU/hr,

dissipation

depending on power supply configuration

Voltage 100 - 240 VAC, rated (90 - 264 VAC, max)

-48 to -60 VDC, rated (-36 to -72 VDC, max)

(depending on power supply chosen)

107 W Maximum power rating

Idle power 55 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; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA 21 CFR Subchapter J; ROHS Compliance;

AS/NZS 60950-1; GB 4943; EAC (EurAsian Conformity Certification)

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; 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+ 1-slot HI Switch (JH324A)

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); Media Type: Auto-MDIX

Duplex: ports 1-8 support 10BASE-T/100BASE-TX (half or full), 1000BASE-T (full only).

Ports 9-48 support 10BASE-T/100BASE-TX, 1000BASE-T (full only)

4 SFP+ 10GbE ports

1 port expansion module slot

Supports a maximum of 6 SFP+ ports or 2 1/10GBASE-T ports, with optional module

Additional ports and

slots

1 dual-personality (RJ-45 or mini USB) serial console port

1 RJ-45 out-of-band management port 1 USB 2.0

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray Airflow direction is Front (port side) to Back (power cord side)

Physical characteristics Dimensions $17.32(w) \times 14.17(d) \times 1.72(h) \text{ in } (44.0 \times 36 \times 4.37 \text{ cm}) \text{ (1U height)}$

Weight 16.53 lb (7.5 kg)

Memory and processor 2 GB SDRAM; Packet buffer size: 4 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 μs **10 Gbps Latency** < 3 μs

Throughput up to 190.5 Mpps

Routing/Switching 216 Gbps

capacity

Routing table size 4096 entries (IPv4), 2048 entries (IPv6)

MAC address table size 32768 entries

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

Operating relative

humidity

10% to 90%, noncondensing

Non-operating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Non-operating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 49.9 dB, High-speed fan: 64.8 dB; ISO 7779

Electrical characteristics Frequency 50/60 Hz

> heat 419 BTU/hr (442.04 kJ/hr), Ranges from 201 BTU/hr to 443 BTU/hr, Maximum

depending on power supply configuration dissipation

100 - 240 VAC, rated (90 - 264 VAC, max) Voltage

-48 to -60 VDC, rated (-36 to -72 VDC, max)

(depending on power supply chosen)

150 W Maximum power rating 70 W Idle power

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

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.

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; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA 21 CFR Subchapter J; ROHS Compliance;

AS/NZS 60950-1; GB 4943; EAC (EurAsian Conformity Certification)

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

EN 55024 **Immunity** Generic

ESD EN300 386

Management IMC - Intelligent Management Center; Command-line interface; 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+ 1-slot HI Switch (JH325A)

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

100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX Duplex: ports 1-8 support 10BASE-T/100BASE-TX (half or full), 1000BASE-T (full only).

Ports 9-24 support 10BASE-T/100BASE-TX, 1000BASE-T (full only)

4 SFP+ 10GbE ports

1 port expansion module slot

Supports a maximum of 6 SFP+ ports or 2 1/10GBASE-T ports, with optional module

Additional ports and

1 dual-personality (RJ-45 or mini USB) serial console port 1 RJ-45 out-of-band management port slots

1 USB 2.0

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Airflow direction is Front (port side) to Back (power cord side) Fan tray

Physical characteristics **Dimensions** 17.32(w) x 18.11(d) x 1.72(h) in (43.99 x 46 x 4.37 cm) (1U height)

> Weight 27.56 lb (12.5 kg) shipping weight

Memory and processor

2 GB SDRAM; Packet buffer size: 4 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 µs 10 Gbps Latency < 3 µs

Throughput up to 154.8 Mpps

Routing/Switching

capacity

Routing table size 4096 entries (IPv4), 2048 entries (IPv6)

MAC address table size

32768 entries

168 Gbps

Environment

Operating temperature

Operating relative

humidity

32°F to 113°F (0°C to 45°C)

10% to 90%, noncondensing

Non-operating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Non-operating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 57.6 dB, High-speed fan: 66.9 dB; ISO 7779

Electrical characteristics Frequency

50/60 Hz

Maximum heat

2217 BTU/hr (3599.66 kJ/hr), Ranges from 228 BTU/hr to 3412 BTU/hr,

dissipation depending on power supply configuration 100 - 240 VAC, rated (90 - 264 VAC, max) Voltage

Maximum power rating 650 W

67 W Idle power

740 W PoE+ PoE power

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 range is from 450W to 740W. PoE+ power is the power supplied by the internal power supply(ies). It is dependent on the type and

quantity of power supplies.

Device supports 1 or 2 internal modular power supplies.

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; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA 21 CFR Subchapter J; ROHS Compliance;

AS/NZS 60950-1; GB 4943; EAC (EurAsian Conformity Certification)

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; 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+ 1-slot HI Switch (JH326A)

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

100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+)

Duplex: ports 1-8 support 10BASE-T/100BASE-TX (half or full), 1000BASE-T (full only).

Ports 9-48 support 10BASE-T/100BASE-TX, 1000BASE-T (full only)

4 SFP+ 10GbE ports

1 port expansion module slot

Supports a maximum of 6 SFP+ ports or 2 1/10GBASE-T ports, with optional module

Additional ports and

and 1 dual-personality (RJ-45 or mini USB) serial console port

slots 1 RJ-

1 RJ-45 out-of-band management port

1 USB 2.0

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray Airflow direction is Front (port side) to Back (power cord side)

Physical characteristics Dimensions 17.32(w) x 18.11(d) x 1.72(h) in (43.99 x 46 x 4.37 cm) (1U height)

Weight 27.56 lb (12.5 kg) shipping weight

Memory and processor 2 GB SDRAM; Packet buffer size: 4 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 μs **10 Gbps Latency** < 3 μs

Throughput up to 190.5 Mpps

216 Gbps

Routing/Switching

Routing table size

capacity

4096 entries (IPv4), 2048 entries (IPv6)

MAC address table size 32768 entries

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

Operating relative

humidity

10% to 90%, noncondensing

10% 10 70%, 110116011461131119

Non-operating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Non-operating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 57.6 dB, High-speed fan: 66.9 dB; ISO 7779

Electrical characteristics Frequency

Maximum heat 2286 BTU/hr (2411.73 kJ/hr), Heat dissipation ranges from 256 BTU/hr to

dissipation

6142 BTU/hr, depending on power supply configuration

Voltage 100 - 240 VAC, rated (90 - 264 VAC, max)

50/60 Hz

Maximum power rating 670 W **Idle power** 75 W

PoE power 1440 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 range is from 450W to 1440W. PoE+ power is the power supplied by the internal power supply (ies). It is dependent on the type and

quantity of power supplies.

Device supports 1 or 2 internal modular power supplies.

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; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA 21 CFR Subchapter J; ROHS Compliance;

AS/NZS 60950-1; GB 4943; EAC (EurAsian Conformity Certification)

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; 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)

General Protocols

- IEEE 802.1ad Q-in-Q
- IEEE 802.1ak Multiple Registration Protocol (MRP) and Multiple VLAN Registration Protocol (MVRP)
- IEEE 802.1AE MACsec
- IEEE 802.1AX-2008 Link Aggregation
- IEEE 802.1D MAC Bridges
- IEEE 802.1p Priority
- IEEE 802.1Q (GVRP)
- IEEE 802.1Q VLANs
- IEEE 802.1s Multiple Spanning Trees
- IEEE 802.1v VLAN classification by Protocol and Port
- IEEE 802.1w Rapid Reconfiguration of Spanning Tree
- IEEE 802.1X PAE
- IEEE 802.3 Type 10BASE-T
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3ac (VLAN Tagging Extension)
- 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 959 File Transfer Protocol (FTP)
- RFC 1027 Proxy ARP
- RFC 1042 IP Datagrams
- RFC 1071 Computing the Internet Checksum
- RFC 1123 Requirements for Internet Hosts
- RFC 1166 IP Addresses
- RFC 1213 Management Information Base for Network Management of TCP/IP-based internets
- RFC 1256 ICMP Router Discovery Protocol (IRDP)
- 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 1643 Definitions of Managed Objects for the Ethernet-like Interface Types
- RFC 1812 IPv4 Routing
- RFC 1866 Hypertext Markup Language 2.0
- RFC 1901 Introduction to Community-based SNMPv2
- RFC 1902-1907 SNMPv2
- RFC 2131 DHCP
- RFC 2236 IGMP Snooping
- RFC 2462 IPv6 Stateless Address Auto configuration
- 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 2868 RADIUS Attributes for Tunnel Protocol Support
- RFC 3046 DHCP Relay Agent Information Option
- 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 3417 Transport Mappings 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 3580 IEEE 802.1X Remote Authentication Dial In User Service (RADIUS) Usage Guidelines
- 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 4675 RADIUS VLAN & Priority
- RFC 5095 Deprecation of Type 0 Routing Headers in IPv6
- 802.1r GARP Proprietary Attribute Registration Protocol (GPRP)

Network Management

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
- RFC 1215 SNMP Generic traps
- RFC 2579 Textual Conventions for SMIv2
- RFC 2580 Conformance Statements for SMIv2
- RFC 2818 HTTP over TLS
- RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)
- RFC 6398 IP Router Alert Considerations and Usage
- 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

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
- RFC 6724 Default Address Selection for Internet Protocol Version 6 (IPv6)

MIBs

- RFC 1157 A Simple Network Management Protocol (SNMP)
- RFC 1212 Concise MIB Definitions
- RFC 1213 MIB II
- RFC 1215 A Convention for Defining Traps for use with the SNMP
- 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

Device Management

- RFC 1155 Structure and Mgmt Information (SMIv1)
- RFC 1157 SNMPv1/v2c
- RFC 1305 NTPv3
- RFC 2573 (SNMPv3 Applications)
- RFC 2578-2580 SMIv2
- RFC 2819 (RMON groups Alarm, Event, History and Statistics only)
- RFC 3416 (SNMP Protocol Operations v2)
- RFC 3417 (SNMP Transport Mappings)
- HTML and telnet management
- Multiple Configuration Files
- SNMP v3 and RMON RFC support
- SSHv1/SSHv2 Secure Shell
- TACACS/TACACS+

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
- RFC 3260 New Terminology and Clarifications for DiffServ
- RFC 4716 SSH Public Key File Format
- Secure Sockets Layer (SSL)
- SSHv2 Secure Shell

Summary of Changes

Date	Version History	Action	Description of Change
20-Jan-2020	Version 19	Changed	Technical Specification section was updated.
02-Dec-2019	Version 18	Changed	Overview, Configuration Information and Related Option sections were updated. Obsolete SKUs were removed.
01-Oct-2018	Version 17	Changed	Configuration Information section was updated.
04-Sep-2018	Version 16	Changed	Accessories and Configuration updated
06-Aug-2018	Version 15	Changed	Configuration Information section was updated: Added AOC compatibility and appropriate SFP+ Rules
07-May-2018	Version 14	Changed	Configuration Information section was updated.
05-Feb-2018	Version 13	Changed	Standards and protocols updated
03-Jul-2017	Version 12	Added	SKU added: JL448A
09-Jan-2017	Version 11	Changed	Changes made on Standard Features SKUs added: JH693A, JH694A, JH695A
03-Oct-2016	Version 10	Changed	SKUs added:JD362B, JD366B Updates made on Technical Specifications
19-Aug-2016	Version 9	Changed	SKU description were updated.
12-Aug-2016	Version 8	Changed	Changes made on Accessories and Configuration sections
20-May-2016	Version 7	Changed	Updates made on Technical Specifications and Accessories
08-Apr-2016	Version 6	Changed	Changes made on Configuration section, SKU descriptions updated on all document
18-Mar-2016	Version 5	Changed	Minor changes on Standard Features, Configuration and Standard Protocols
05-Feb-2016	Version 4	Changed	Technical Specifications section was updated.
08-Jan-2016	Version 3	Removed	SKUs Removed: JD090A, JD091A, JD102B, JD120B, JD100A, JD101A
11-Dec-2015	Version 2	Changed	Minor changes on Technical Specifications, Transceivers updated.
01-Dec-2015	Version 1	New	New QuickSpecs



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