

### Overview

#### 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

#### Product overview

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.

#### 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 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

## Overview

- **Traffic policing**  
supports Committed Access Rate (CAR) and line rate

## 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

## Connectivity

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

## Overview

- **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+

## 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

## 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

## Overview

- **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

## 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**

## Overview

- **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

## 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

## QuickSpecs

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### Overview

- **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

### 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>
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QuickSpecs

Configuration

**Build To Order:** BTO is a standalone unit with no integration. BTO products ship standalone are not part of a CTO or Rack-Shippable solution.

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

- 24 RJ-45 autosensing 10/100/1000 ports See Configuration
- 4 fixed Gigabit Ethernet SFP+ ports **NOTE: 2**
- (min=0 \ max=4 SFP/SFP+ Transceivers)
- 1 port expansion module slots
- Must select min 1 power supply
- 1U - Height

HPE FlexNetwork 5130 48G 4SFP+ 1-slot HI Switch JH324A

- 48 RJ-45 autosensing 10/100/1000 ports See Configuration
- 4 fixed Gigabit Ethernet SFP+ ports **NOTE: 2**
- (min=0 \ max=4 SFP/SFP+ Transceivers)
- 1 port expansion module slots
- Must select min 1 power supply
- 1U - Height

HPE FlexNetwork 5130 24G PoE+ 4SFP+ 1-slot HI Switch JH325A

- 24 RJ-45 autosensing 10/100/1000 PoE+ ports See Configuration
- 4 fixed Gigabit Ethernet SFP+ ports **NOTE: 2**
- (min=0 \ max=4 SFP/SFP+ Transceivers)
- 1 port expansion module slots
- Must select min 1 power supply
- 1U - Height

HPE FlexNetwork 5130 48G PoE+ 4SFP+ 1-slot HI Switch JH326A

- 48 RJ-45 autosensing 10/100/1000 PoE+ ports See Configuration
- 4 fixed Gigabit Ethernet SFP+ ports **NOTE: 2**
- (min=0 \ max=4 SFP/SFP+ Transceivers)
- 1 port expansion module slots
- Must select min 1 power supply
- 1U - Height

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 X130 10G SFP+ LC SR Transceiver        | JD092B |
| HPE X130 10G SFP+ LC LR Transceiver        | JD094B |

## QuickSpecs

## Configuration

|  |        |
|--|--------|
| 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 X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Campus-Cable      | JH693A |
| HPE X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Campus-Cable       | JH694A |
| HPE X240 10G SFP+ to SFP+ 3m Direct Attach Copper Campus-Cable         | JH695A |
| 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 |

Remarks: [OCA Only Model Selection Form - HPE Offering > Aruba > Switches - FlexNetwork: 5130 HI Switch Series](#)

## Box Level Integration CTO Models

## CTO Solution SKU

|   |        |
|---|--------|
| HPE 51xx CTO Switch Solution                                      | JG706A |
| <ul style="list-style-type: none"> <li>SSP trigger SKU</li> </ul> |        |

## CTO Base SKU

|  |   |
|--|---|
| HPE FlexNetwork 5130 24G 4SFP+ 1-slot HI Switch  | JH323A                                  |
| <ul style="list-style-type: none"> <li>24 RJ-45 autosensing 10/100/1000 ports</li> <li>4 fixed Gigabit Ethernet SFP+ ports</li> <li>(min=0 \ max=4 SFP/SFP+ Transceivers)</li> <li>1 port expansion module slots</li> <li>Must select min 1 power supply</li> <li>1U - Height</li> </ul> | See Configuration<br><b>NOTE: 2, 10</b> |

|  |   |
|--|---|
| HPE FlexNetwork 5130 48G 4SFP+ 1-slot HI Switch  | JH324A                                  |
| <ul style="list-style-type: none"> <li>48 RJ-45 autosensing 10/100/1000 ports</li> <li>4 fixed Gigabit Ethernet SFP+ ports</li> <li>(min=0 \ max=4 SFP/SFP+ Transceivers)</li> <li>1 port expansion module slots</li> <li>Must select min 1 power supply</li> <li>1U - Height</li> </ul> | See Configuration<br><b>NOTE: 2, 10</b> |

|   |   |
|---|---|
| HPE FlexNetwork 5130 24G PoE+ 4SFP+ 1-slot HI Switch  | JH325A                                  |
| <ul style="list-style-type: none"> <li>24 RJ-45 autosensing 10/100/1000 PoE+ ports</li> <li>4 fixed Gigabit Ethernet SFP+ ports</li> <li>(min=0 \ max=4 SFP/SFP+ Transceivers)</li> <li>1 port expansion module slots</li> <li>Must select min 1 power supply</li> <li>1U - Height</li> </ul> | See Configuration<br><b>NOTE: 2, 10</b> |

|  |   |
|--|---|
| HPE FlexNetwork 5130 48G PoE+ 4SFP+ 1-slot HI Switch   | JH326A                                  |
| <ul style="list-style-type: none"> <li>48 RJ-45 autosensing 10/100/1000 PoE+ ports</li> <li>4 fixed Gigabit Ethernet SFP+ ports</li> </ul> | See Configuration<br><b>NOTE: 2, 10</b> |



QuickSpecs

Configuration

- (min=0 \ max=4 SFP/SFP+ Transceivers)
- 1 port expansion module slots
- Must select min 1 power supply
- 1U - Height

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 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 X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Campus-Cable      | JH693A |
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| HPE X240 10G SFP+ to SFP+ 3m Direct Attach Copper Campus-Cable         | JH695A |
| 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 |

Note 10 If the Switch Chassis is to be Factory Integrated (CTO), Then the #OD1 is required on the Switch Chassis and integrated to the JG506A - HPE 55xx CTO Switch Solution. (Min 1/Max 1 Switch per SSP)

Remarks: Clic UNB - If an option is ordered with #OD1/#B01, then the switch must have #OD1 option.

Rack Level Integration CTO Models

Switch Chassis

|  |   |
|--|---|
| HPE FlexNetwork 5130 24G 4SFP+ 1-slot HI Switch  | JH323A                                  |
| <ul style="list-style-type: none"> <li>• 24 RJ-45 autosensing 10/100/1000 ports</li> <li>• 4 fixed Gigabit Ethernet SFP+ ports</li> <li>• (min=0 \ max=4 SFP/SFP+ Transceivers)</li> <li>• 1 port expansion module slots</li> <li>• Must select min 1 power supply</li> <li>• 1U - Height</li> </ul> | See Configuration<br><b>NOTE: 2, 10</b> |

|   |        |
|---|--------|
| HPE FlexNetwork 5130 48G 4SFP+ 1-slot HI Switch | JH324A |
|---|--------|

QuickSpecs

Configuration

- 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

See Configuration  
**NOTE: 2, 10**

HPE FlexNetwork 5130 24G PoE+ 4SFP+ 1-slot HI Switch

- 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

JH325A  
See Configuration  
**NOTE: 2, 10**

HPE FlexNetwork 5130 48G PoE+ 4SFP+ 1-slot HI Switch

- 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

JH326A  
See Configuration  
**NOTE: 2, 10**

Configuration Rules:

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

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|--|--------|
| 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 X130 10G SFP+ LC SR Transceiver                                    | JD092B |
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| 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 |
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| HPE X240 10G SFP+ to SFP+ 3m Direct Attach Copper Campus-Cable         | JH695A |
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| HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable                     | JL292A |

Note 10 If HPE CTO Switch Chassis is selected for Rack Level Integration, Then the Switch needs to integrate (with #0D1) to the Rack.

## QuickSpecs

## Configuration

Remarks: Clic UNB - If an option is ordered with #OD1/#B01, then the switch must have #OD1 option.

Enter the following 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)

HPE FlexNetwork 5130/5510 10GBASE-T 2p Module JH156A

- No Transceivers

HPE FlexNetwork 5130/5510 10GbE SFP+ 2p Module JH157A

- min=0 \ max=2 SFP+ Transceivers

See Configuration

**NOTE: 1**

### Configuration Rules:

#### Note 1 The following Transceivers install into this Module: (SFP+ Ports)

|  |        |
|--|--------|
| HPE X130 10G SFP+ LC SR Transceiver                                    | JD092B |
| HPE X130 10G SFP+ LC LRM Transceiver                                   | JD093B |
| 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 LRM Transceiver                                   | JD093B |
| HPE X130 10G SFP+ LC LH 80km Transceiver                               | JG915A |
| HPE X130 10G SFP+ LC ER 40km Transceiver                               | JG234A |
| HPE X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Campus-Cable      | JH693A |
| HPE X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Campus-Cable       | JH694A |
| HPE X240 10G SFP+ to SFP+ 3m Direct Attach Copper Campus-Cable         | JH695A |
| 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 |

## Transceivers

### 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 LH40 1550nm Transceiver | JD062A |
| HPE X120 1G SFP LC LH100 Transceiver       | JD103A |
| HPE X125 1G SFP LC LH40 1310nm Transceiver | JD061A |
| HPE X125 1G SFP LC LH70 Transceiver        | JD063B |

## QuickSpecs

## Configuration

### SFP+ Transceivers

|   |        |
|---|--------|
| HPE X130 10G SFP+ LC SR Transceiver   | JD092B |
| HPE X130 10G SFP+ LC LRM Transceiver  | JD093B |
| <b>NOTE:</b> 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 X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Campus-Cable           | JH693A |
| HPE X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Campus-Cable            | JH694A |
| HPE X240 10G SFP+ to SFP+ 3m Direct Attach Copper Campus-Cable              | JH695A |
| HPE X2A0 10G SFP+ 7m AOC Cable  | JL290A |
| <b>OCA Blue NOTE:</b> Requires R1122P02 or later code for AOC cable support |        |
| HPE X2A0 10G SFP+ 10m AOC Cable   | JL291A |
| <b>OCA Blue NOTE:</b> Requires R1122P02 or later code for AOC cable support |        |
| HPE X2A0 10G SFP+ 20m AOC Cable   | JL292A |
| <b>OCA Blue NOTE:</b> Requires R1122P02 or later code for AOC cable support |        |

## Cables

### Console Cables

(std 0 // max 99) User Selection (min 0 // max 99) per switch

|                                      |        |
|--------------------------------------|--------|
| Aruba X2C2 RJ45 to DB9 Console Cable | JL448A |
|--------------------------------------|--------|

### Multi-Mode Cables

(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

|  |        |
|--|--------|
| HPE FlexNetwork 5500 150WDC Power Supply | JD366A |
|--|--------|

## QuickSpecs

## Configuration

|  |   |
|--|---|
|  | See Configuration<br><b>NOTE: 1</b>                 |
| HPE X361 150W 48-60VDC to 12VDC Power Supply   | JD366B<br>See Configuration<br><b>NOTE: 1</b>       |
| HPE 5500 150WAC Power Supply <ul style="list-style-type: none"> <li>includes 1 x c13, 910w</li> </ul>                                | JD362A<br>See Configuration<br><b>NOTE: 1, 3, 4</b> |
| PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>                          | JD362A#B2B  |
| PDU Cable ROW <ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (ROW)</li> </ul>  | JD362A#B2C  |
| High Volt Switch to Wall Power Cord <ul style="list-style-type: none"> <li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul>                | JD362A#B2E  |
| HPE X361 150W 100-240VAC to 12VDC Power Supply <ul style="list-style-type: none"> <li>includes 1 x c13, 910w</li> </ul>              | JD362B<br>See Configuration<br><b>NOTE: 1, 3, 4</b> |
| PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> <li>C13 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>                          | JD362B#B2B  |
| PDU Cable ROW <ul style="list-style-type: none"> <li>C13 PDU Jumper Cord (ROW)</li> </ul>  | JD362B#B2C  |
| High Volt Switch to Wall Power Cord <ul style="list-style-type: none"> <li>HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A)</li> </ul> | JD362B#B2E  |
| No Power Cord <ul style="list-style-type: none"> <li>No Localized Power Cord Selected</li> </ul>                                     | JD362B#AC3  |
| HPE X362 720W 100-240VAC to 56VDC PoE Power Supply <ul style="list-style-type: none"> <li>includes 1 x c13, 720w</li> </ul>          | JG544A<br>See Configuration<br><b>NOTE: 2, 3, 4</b> |
| PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>                          | JG544A#B2B  |
| PDU Cable ROW <ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (ROW)</li> </ul>  | JG544A#B2C  |
| High Volt Switch to Wall Power Cord <ul style="list-style-type: none"> <li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul>                | JG544A#B2E  |
| HPE X362 1110W 115-240VAC to 56VDC PoE Power Supply  | JG545A  |

QuickSpecs

Configuration

|   |   |
|---|---|
| <ul style="list-style-type: none"> <li>includes 1 x c13, 1100w</li> </ul>   | See Configuration<br><b>NOTE: 2, 3, 4</b> |
| PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>           | JG545A#B2B                                |
| PDU Cable ROW <ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (ROW)</li> </ul>                             | JG545A#B2C                                |
| High Volt Switch to Wall Power Cord <ul style="list-style-type: none"> <li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul> | JG545A#B2E                                |

Configuration Rules:

- Note 1 This power supply is only supported on JH323A and JH324A.
- Note 2 This power supply is only supported on JH 325A and JH326A.
- Note 3 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 4 Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord). (See Localization Menu)  
REMARK: When Switches/Routers are Factory Racked, Then #B2B, or #B2C should be the Defaulted Power Cable option on the Switches/Routers.

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)

## Technical Specifications

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

|                                   |   |   |
|-----------------------------------|---|---|
| <b>I/O ports and slots</b>        | 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: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only; Ports 1 - 8 support MACSec |   |
|                                   | 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   |   |
| <b>Additional ports and slots</b> | 1 dual-personality (RJ-45 or mini USB) serial console port  |   |
|                                   | 1 RJ-45 out-of-band management port   |   |
|                                   | 1 USB 2.0   |   |
| <b>Power supplies</b>             | 2 power supply slots  |   |
|                                   | 1 minimum power supply required (ordered separately)  |   |
| <b>Fan tray</b>                   | Airflow direction is Front (port side) to Back (power cord side)  |   |
| <b>Physical characteristics</b>   | <b>Dimensions</b>   | 17.32(w) x 14.17(d) x 1.72(h) in (44.00 x 36.00 x 4.37 cm) (1U height)  |
|                                   | <b>Weight</b>   | 16.53 lb (7.5 kg) shipping weight   |
| <b>Memory and processor</b>       | 2 GB SDRAM; Packet buffer size: 4 MB, 512 MB flash  |   |
| <b>Mounting and enclosure</b>     | Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)   |   |
| <b>Performance</b>                | IPv6 Ready Certified  |   |
|                                   | <b>1000 Mb Latency</b>  | < 5 $\mu$ s   |
|                                   | <b>10 Gbps Latency</b>  | < 3 $\mu$ s   |
|                                   | <b>Throughput</b>   | up to 154.8 Mpps  |
|                                   | <b>Routing/Switching capacity</b>   | 168 Gbps  |
|                                   | <b>Routing table size</b>   | 4096 entries (IPv4), 2048 entries (IPv6)  |
|                                   | <b>MAC address table size</b>   | 32768 entries   |
| <b>Environment</b>                | <b>Operating temperature</b>  | 32°F to 113°F (0°C to 45°C)   |
|                                   | <b>Operating relative humidity</b>  | 10% to 90%, noncondensing   |
|                                   | <b>Nonoperating/Storage temperature</b>   | -40°F to 158°F (-40°C to 70°C)  |
|                                   | <b>Nonoperating/Storage relative humidity</b>   | 5% to 95%, noncondensing  |
|                                   | <b>Acoustic</b>   | Low-speed fan: 52.8 dB, High-speed fan: 66.7 dB; ISO 7779   |
| <b>Electrical characteristics</b> | <b>Frequency</b>  | 50/60 Hz  |
|                                   | <b>Maximum heat dissipation</b>   | 365 BTU/hr (385.08 kJ/hr), Ranges from 167 BTU/hr to 392 BTU/hr, depending on power supply configuration  |
|                                   | <b>Voltage</b>  | 100 - 240 VAC, rated (90 - 264 VAC, max)<br>-48 to -60 VDC, rated (-36 to -72 VDC, max)<br>(depending on power supply chosen)   |
|                                   | <b>Maximum power rating</b>   | 107 W   |
|                                   | <b>Idle power</b>   | 55 W  |
|                                   | <b>Notes</b>  | Idle power is the actual power consumption of the device with no ports connected.<br>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the |

## Technical Specifications

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

|                   |   |           |
|-------------------|---|-----------|
| <b>Safety</b>     | 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)  |           |
| <b>Emissions</b>  | 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 |           |
| <b>Immunity</b>   | <b>Generic</b>  | EN 55024  |
|                   | <b>ESD</b>  | EN300 386 |
| <b>Management</b> | IMC - Intelligent Management Center; Command-line interface; SNMP manager   |           |
| <b>Services</b>   | Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> 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)

|                                   |   |  |
|-----------------------------------|---|--|
| <b>I/O ports and slots</b>        | 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: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only; Ports 1 - 8 support MACSec |  |
|                                   | 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   |  |
| <b>Additional ports and slots</b> | 1 dual-personality (RJ-45 or mini USB) serial console port  |  |
|                                   | 1 RJ-45 out-of-band management port   |  |
|                                   | 1 USB 2.0   |  |
| <b>Power supplies</b>             | 2 power supply slots  |  |
|                                   | 1 minimum power supply required (ordered separately)  |  |
| <b>Fan tray</b>                   | Airflow direction is Front (port side) to Back (power cord side)  |  |
| <b>Physical characteristics</b>   | <b>Dimensions</b>   | 17.32(w) x 14.17(d) x 1.72(h) in (44.0 x 36 x 4.37 cm) (1U height) |
|                                   | <b>Weight</b>   | 16.53 lb (7.5 kg)  |
| <b>Memory and processor</b>       | 2 GB SDRAM; Packet buffer size: 4 MB, 512 MB flash  |  |
| <b>Mounting and enclosure</b>     | Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)   |  |
| <b>Performance</b>                | IPv6 Ready Certified  |  |
|                                   | <b>1000 Mb Latency</b>  | < 5 $\mu$ s  |
|                                   | <b>10 Gbps Latency</b>  | < 3 $\mu$ s  |
|                                   | <b>Throughput</b>   | up to 190.5 Mpps   |
|                                   | <b>Routing/Switching capacity</b>   | 216 Gbps   |
|                                   | <b>Routing table size</b>   | 4096 entries (IPv4), 2048 entries (IPv6)                           |
|                                   | <b>MAC address table size</b>   | 32768 entries  |
| <b>Environment</b>                | <b>Operating temperature</b>  | 32°F to 113°F (0°C to 45°C)  |
|                                   | <b>Operating relative humidity</b>  | 10% to 90%, noncondensing  |
|                                   | <b>Nonoperating/Storage temperature</b>   | -40°F to 158°F (-40°C to 70°C)                                     |



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|                                   |   |  |
|-----------------------------------|---|--|
|                                   | <b>Nonoperating/Storage relative humidity</b>   | 5% to 95%, noncondensing   |
|                                   | <b>Acoustic</b>   | Low-speed fan: 49.9 dB, High-speed fan: 64.8 dB; ISO 7779  |
| <b>Electrical characteristics</b> | <b>Frequency</b>  | 50/60 Hz   |
|                                   | <b>Maximum heat dissipation</b>   | 419 BTU/hr (442.04 kJ/hr), Ranges from 201 BTU/hr to 443 BTU/hr, depending on power supply configuration   |
|                                   | <b>Voltage</b>  | 100 - 240 VAC, rated (90 - 264 VAC, max)<br>-48 to -60 VDC, rated (-36 to -72 VDC, max)<br>(depending on power supply chosen)  |
|                                   | <b>Maximum power rating</b>   | 150 W  |
|                                   | <b>Idle power</b>   | 70 W   |
|                                   | <b>Notes</b>  | Idle power is the actual power consumption of the device with no ports connected.<br>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. |
| <b>Safety</b>                     | 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)  |  |
| <b>Emissions</b>                  | 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 |  |
| <b>Immunity</b>                   | <b>Generic</b>  | EN 55024   |
|                                   | <b>ESD</b>  | EN300 386  |
| <b>Management</b>                 | IMC - Intelligent Management Center; Command-line interface; SNMP manager   |  |
| <b>Services</b>                   | Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> 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)

|                                   |  |   |
|-----------------------------------|--|---|
| <b>I/O ports and slots</b>        | 24 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+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only; Ports 1 - 8 support MACSec<br>4 SFP+ 10GbE ports<br>1 port expansion module slot<br>Supports a maximum of 6 SFP+ ports or 2 1/10GBASE-T ports, with optional module |   |
| <b>Additional ports and slots</b> | 1 dual-personality (RJ-45 or mini USB) serial console port<br>1 RJ-45 out-of-band management port<br>1 USB 2.0   |   |
| <b>Power supplies</b>             | 2 power supply slots<br>1 minimum power supply required (ordered separately)   |   |
| <b>Fan tray</b>                   | Airflow direction is Front (port side) to Back (power cord side)   |   |
| <b>Physical characteristics</b>   | <b>Dimensions</b>  | 17.32(w) x 18.11(d) x 1.72(h) in (43.99 x 46 x 4.37 cm) (1U height) |
|                                   | <b>Weight</b>  | 27.56 lb (12.5 kg) shipping weight                                  |
| <b>Memory and processor</b>       | 2 GB SDRAM; Packet buffer size: 4 MB, 512 MB flash   |   |
| <b>Mounting and enclosure</b>     | Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)  |   |

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|   |   |  |
|---|---|--|
| <b>Performance</b>                            | IPv6 Ready Certified  |  |
|   | <b>1000 Mb Latency</b>  | < 5 $\mu$ s  |
|   | <b>10 Gbps Latency</b>  | < 3 $\mu$ s  |
|   | <b>Throughput</b>   | up to 154.8 Mpps   |
|   | <b>Routing/Switching capacity</b>   | 168 Gbps   |
|   | <b>Routing table size</b>   | 4096 entries (IPv4), 2048 entries (IPv6)   |
|   | <b>MAC address table size</b>   | 32768 entries  |
|   | <b>Environment</b>  | <b>Operating temperature</b>   |
| <b>Operating relative humidity</b>            |   | 10% to 90%, noncondensing  |
| <b>Nonoperating/Storage temperature</b>       |   | -40°F to 158°F (-40°C to 70°C)   |
| <b>Nonoperating/Storage relative humidity</b> |   | 5% to 95%, noncondensing   |
| <b>Acoustic</b>                               |   | Low-speed fan: 57.6 dB, High-speed fan: 66.9 dB; ISO 7779  |
| <b>Electrical characteristics</b>             | <b>Frequency</b>  | 50/60 Hz   |
|   | <b>Maximum heat dissipation</b>   | 2217 BTU/hr (3599.66 kJ/hr), Ranges from 228 BTU/hr to 3412 BTU/hr, depending on power supply configuration  |
|   | <b>Voltage</b>  | 100 - 240 VAC, rated (90 - 264 VAC, max)   |
|   | <b>Maximum power rating</b>   | 650 W  |
|   | <b>Idle power</b>   | 67 W   |
|   | <b>PoE power</b>  | 740 W PoE+   |
|   | <b>Notes</b>  | <p>Idle power is the actual power consumption of the device with no ports connected.</p> <p>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.</p> <p>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.</p> <p>Device supports 1 or 2 internal modular power supplies.</p> |
|   | <b>Safety</b>   | 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)   |
| <b>Emissions</b>                              | 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 |  |
| <b>Immunity</b>                               | <b>Generic</b>  | EN 55024   |
|   | <b>ESD</b>  | EN300 386  |
| <b>Management Services</b>                    | IMC - Intelligent Management Center; Command-line interface; SNMP manager   |  |
|   | Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> 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.   |  |

## Technical Specifications

### HPE FlexNetwork 5130 48G PoE+ 4SFP+ 1-slot HI Switch (JH326A)

|                                   |  |   |
|-----------------------------------|--|---|
| <b>I/O ports and slots</b>        | 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: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only; Ports 1 - 8 support MACSec |   |
|                                   | 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  |   |
| <b>Additional ports and slots</b> | 1 dual-personality (RJ-45 or mini USB) serial console port   |   |
|                                   | 1 RJ-45 out-of-band management port  |   |
|                                   | 1 USB 2.0  |   |
| <b>Power supplies</b>             | 2 power supply slots   |   |
|                                   | 1 minimum power supply required (ordered separately)   |   |
| <b>Fan tray</b>                   | Airflow direction is Front (port side) to Back (power cord side)   |   |
| <b>Physical characteristics</b>   | <b>Dimensions</b>  | 17.32(w) x 18.11(d) x 1.72(h) in (43.99 x 46 x 4.37 cm) (1U height)   |
|                                   | <b>Weight</b>  | 27.56 lb (12.5 kg) shipping weight  |
| <b>Memory and processor</b>       | 2 GB SDRAM; Packet buffer size: 4 MB, 512 MB flash   |   |
| <b>Mounting and enclosure</b>     | Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)  |   |
| <b>Performance</b>                | IPv6 Ready Certified   |   |
|                                   | <b>1000 Mb Latency</b>   | < 5 $\mu$ s   |
|                                   | <b>10 Gbps Latency</b>   | < 3 $\mu$ s   |
|                                   | <b>Throughput</b>  | up to 190.5 Mpps  |
|                                   | <b>Routing/Switching capacity</b>  | 216 Gbps  |
|                                   | <b>Routing table size</b>  | 4096 entries (IPv4), 2048 entries (IPv6)  |
|                                   | <b>MAC address table size</b>  | 32768 entries   |
| <b>Environment</b>                | <b>Operating temperature</b>   | 32°F to 113°F (0°C to 45°C)   |
|                                   | <b>Operating relative humidity</b>   | 10% to 90%, noncondensing   |
|                                   | <b>Nonoperating/Storage temperature</b>  | -40°F to 158°F (-40°C to 70°C)  |
|                                   | <b>Nonoperating/Storage relative humidity</b>  | 5% to 95%, noncondensing  |
|                                   | <b>Acoustic</b>  | Low-speed fan: 57.6 dB, High-speed fan: 66.9 dB; ISO 7779   |
| <b>Electrical characteristics</b> | <b>Frequency</b>   | 50/60 Hz  |
|                                   | <b>Maximum heat dissipation</b>  | 2286 BTU/hr (2411.73 kJ/hr), Heat dissipation ranges from 256 BTU/hr to 6142 BTU/hr, depending on power supply configuration  |
|                                   | <b>Voltage</b>   | 100 - 240 VAC, rated (90 - 264 VAC, max)  |
|                                   | <b>Maximum power rating</b>  | 670 W   |
|                                   | <b>Idle power</b>  | 75 W  |
|                                   | <b>PoE power</b>   | 1440 W PoE+   |
|                                   | <b>Notes</b>   | <p>Idle power is the actual power consumption of the device with no ports connected.</p> <p>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.</p> |

## Technical Specifications

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.

|                   |   |
|-------------------|---|
| <b>Safety</b>     | 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)  |
| <b>Emissions</b>  | 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 |
| <b>Immunity</b>   | <p><b>Generic</b> EN 55024</p> <p><b>ESD</b> EN300 386</p>  |
| <b>Management</b> | IMC - Intelligent Management Center; Command-line interface; SNMP manager   |
| <b>Services</b>   | Refer to the Hewlett Packard Enterprise website at: <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> 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)

|                          |  |
|--------------------------|--|
| <b>Device Management</b> | <p>RFC 1155 Structure and Mgmt Information (SMIv1)</p> <p>RFC 1157 SNMPv1/v2c</p> <p>RFC 1305 NTPv3</p> <p>RFC 2573 (SNMPv3 Applications)</p> <p>RFC 2578-2580 SMIv2</p> <p>RFC 2819 (RMON groups Alarm, Event, History and Statistics only)</p> <p>RFC 3416 (SNMP Protocol Operations v2)</p> <p>RFC 3417 (SNMP Transport Mappings)</p> <p>HTML and telnet management</p> <p>Multiple Configuration Files</p> <p>SNMP v3 and RMON RFC support</p> <p>SSHv1/SSHv2 Secure Shell</p> <p>TACACS/TACACS+</p>   |
| <b>General Protocols</b> | <p>IEEE 802.1ad Q-in-Q</p> <p>IEEE 802.1ak Multiple Registration Protocol (MRP) and Multiple VLAN Registration Protocol (MVRP)</p> <p>IEEE 802.1AE MACsec</p> <p>IEEE 802.1AX-2008 Link Aggregation</p> <p>IEEE 802.1D MAC Bridges</p> <p>IEEE 802.1p Priority</p> <p>IEEE 802.1Q (GVRP)</p> <p>IEEE 802.1Q VLANs</p> <p>IEEE 802.1s Multiple Spanning Trees</p> <p>IEEE 802.1v VLAN classification by Protocol and Port</p> <p>IEEE 802.1w Rapid Reconfiguration of Spanning Tree</p> <p>IEEE 802.1X PAE</p> <p>IEEE 802.3 Type 10BASE-T</p> <p>IEEE 802.3ab 1000BASE-T</p> <p>IEEE 802.3ac (VLAN Tagging Extension)</p> <p>IEEE 802.3ad Link Aggregation Control Protocol (LACP)</p> <p>IEEE 802.3ae 10-Gigabit Ethernet</p> |

## Technical Specifications

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 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 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

## Technical Specifications

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)

### 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

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## Technical Specifications

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 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

**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

## QuickSpecs

## Accessories

## HPE FlexNetwork 5130 HI Switch Series accessories

## Modules

|   |        |
|---|--------|
| HPE FlexNetwork 5130/5510 10GBASE-T 2p Module <sup>1</sup>  | JH156A |
| HPE FlexNetwork 5130/5510 10GbE SFP+ 2p Module <sup>1</sup> | JH157A |

## Transceivers

|   |        |
|---|--------|
| HPE X125 1G SFP LC LH40 1310nm Transceiver                          | JD061A |
| HPE X120 1G SFP LC LH40 1550nm Transceiver <sup>2</sup>             | JD062A |
| HPE X125 1G SFP LC LH70 Transceiver                                 | JD063B |
| HPE X120 1G SFP LC LH100 Transceiver <sup>2</sup>                   | JD103A |
| HPE X120 1G SFP LC SX Transceiver <sup>2</sup>                      | JD118B |
| HPE X120 1G SFP LC LX Transceiver <sup>2</sup>                      | JD119B |
| HPE X120 1G SFP LC BX 10-U Transceiver <sup>2</sup>                 | JD098B |
| HPE X120 1G SFP LC BX 10-D Transceiver <sup>2</sup>                 | JD099B |
| HPE X120 1G SFP RJ45 T Transceiver <sup>2</sup>                     | JD089B |
| HPE X130 10G SFP+ LC SR Transceiver                                 | JD092B |
| HPE X130 10G SFP+ LC LRM Transceiver <sup>4</sup>                   | JD093B |
| HPE X130 10G SFP+ LC LR Transceiver                                 | JD094B |
| HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable <sup>3</sup>      | JL290A |
| HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable <sup>3</sup>     | JL291A |
| HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable <sup>3</sup>     | JL292A |
| HPE X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Campus-Cable   | JH693A |
| HPE X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Campus-Cable    | JH694A |
| HPE X240 10G SFP+ to SFP+ 3m Direct Attach Copper Campus-Cable      | JH695A |
| HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable | JG081C |
| HPE X130 10G SFP+ LC ER 40km Transceiver <sup>4</sup>               | JG234A |
| HPE X130 10G SFP+ LC LH 80km Transceiver <sup>4</sup>               | 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 <sup>5</sup> | JD362B |
| HPE X361 150W 48-60VDC to 12VDC Power Supply <sup>5</sup>   | JD366B |



QuickSpecs

Accessories

**HPE FlexNetwork 5130 48G 4SFP+ 1-slot HI Switch (JH324A)**

|   |        |
|---|--------|
| HPE X361 150W 100-240VAC to 12VDC Power Supply <sup>5</sup> | JD362B |
| HPE X361 150W 48-60VDC to 12VDC Power Supply <sup>5</sup>   | JD366B |

**HPE FlexNetwork 5130 24G PoE+ 4SFP+ 1-slot HI Switch (JH325A)**

|  |        |
|--|--------|
| HPE X362 720W 100-240VAC to 56VDC PoE Power Supply <sup>5</sup>  | JG544A |
| HPE X362 1110W 115-240VAC to 56VDC PoE Power Supply <sup>5</sup> | JG545A |

**HPE FlexNetwork 5130 48G PoE+ 4SFP+ 1-slot HI Switch (JH326A)**

|  |        |
|--|--------|
| HPE X362 720W 100-240VAC to 56VDC PoE Power Supply <sup>5</sup>  | JG544A |
| HPE X362 1110W 115-240VAC to 56VDC PoE Power Supply <sup>5</sup> | JG545A |

<sup>1</sup> Module supports MACsec  
<sup>2</sup> Transceiver cannot be used on optional module JH157A  
<sup>3</sup> Requires R1122P02 code version or later  
<sup>4</sup> Transceiver can only be used on optional module JH157A  
<sup>5</sup> Products covered by 1 year warranty. See details at [www.hpe.com/networking/warrantyquickref](http://www.hpe.com/networking/warrantyquickref)

## Summary of Changes

| Date        | Version History | Action  | Description of Change   |
|-------------|-----------------|---------|---|
| 01-Oct-2018 | Version 17      | Changed | Recommended and Extended markings removed from the document.                      |
| 04-Sep-2018 | Version 16      | Changed | Accessories and Configuration updated   |
| 06-Aug-2018 | Version 15      | Changed | Configuration section updated: Added AOC compatibility and appropriate SFP+ Rules |
| 07-May-2018 | Version 14      | Changed | Configuration section 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      | Added   | SKUs added: JH693A, JH694A, JH695A  |
|             |                 | Changed | Changes made on Features and Benefits   |
| 03-Oct-2016 | Version 10      | Added   | SKUs added: JD362B, JD366B  |
|             |                 | Changed | Updates made on Technical Specifications  |
| 19-Aug-2016 | Version 9       | Changed | Product description 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 Features and benefits, Configuration and Standard Protocols      |
| 05-Feb-2016 | Version 4       | Changed | Technical Specifications 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       | Created | Document creation   |



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