Hewlett Packard Enterprise

Data sheet

# HPE FlexNetwork 5120 SI Switch Series

## Key features

- Full wire-speed, multi-layer switching
- High reliability with redundancy
- Comprehensive security control policies
- Diversified quality of service (QoS) policies
- Excellent manageability

## Product overview

The HPE 5120 SI Switch Series comprises intelligent, fully managed Gigabit Ethernet switches that provide high performance, high port density, and simplified installation to improve the value of your network infrastructure investment. The 5120 SI Switch Series is enhanced for the access layer in enterprise networks that require Gigabit Ethernet to the desktop or at the distribution layer in metropolitan area networks (MANs). Wire-speed forwarding delivers more effective throughput and the bandwidth necessary for mission-critical data and high-speed communications. As part of their comprehensive security control, 5120 SI switches employ IEEE 802.1X authentication to identify users who attempt to access the network. These switches are highly reliable, providing redundancy while eliminating loops in the network. They also offer a range of management protocols to simplify network administration.

## Features and benefits

**Quality of Service (QoS)**

- Broadcast control

  allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic

- Powerful QoS feature

  supports the following congestion actions: strict priority (SP) queuing, SDWRR, and SP+SDWRR

- Advanced classifier-based QoS

  classifies traffic using multiple match criteria based on Layer 2, 3, and 4 information; applies QoS policies such as setting priority level and rate limit to selected traffic on a per-port basis

**Management**

- Friendly port names

  allows assignment of descriptive names to ports

- Remote configuration and management

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

- Manager and operator privilege levels

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

- Command authorization

  leverages RADIUS to link a custom list of CLI commands to an individual network administrator's login; an audit trail documents activity

- Secure Web GUI

  provides a secure, easy-to-use graphical interface for configuring the module via HTTPS

- Dual flash images

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

- Multiple configuration files

  stores easily to the flash image

- Complete session logging

  provides detailed information for problem identification and resolution

- SNMPv1, v2c, and v3

  facilitate centralized discovery, monitoring, and secure management of networking devices

- Remote monitoring (RMON)

  uses standard SNMP to monitor essential network functions; supports events, alarm, history, and statistics group plus a private alarm extension group

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

  advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications

- Management VLAN

  segments traffic to and from management interfaces, including CLI/telnet, a Web browser interface, and SNMP

- Device Link Detection Protocol (DLDP)

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

- Intelligent Resilient Framework (IRF) Lite

  allows configuration and management of a system of up to four devices by accessing a single switch connected with Gigabit Ethernet links

**Connectivity**

- Auto-MDIX

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

- Flow control

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

- Jumbo packet support

  supports up to 10k byte frame size to improve performance of large data transfers

- High-density port connectivity

  provides up to 48 fixed 10/100/1000BASE-T ports in an entry-level static Layer 3 switch

- 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

- Power over Ethernet Plus (PoE+) support

  provides 30 W power for connected devices, 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

- IPv6

  – IPv6 host

    enables switches to be managed and deployed at the IPv6 network’s edge

  – Dual stack (IPv4 and IPv6 using BIS)

    allows IPv4 hosts to communicate with IPv6 hosts

  – IPv6 ACL

    for filtering IPv6 network traffic

### Performance

- Nonblocking architecture

  up to 104 Gbps nonblocking switching fabric provides wire-speed switching with up to 77.4 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

  increases security and performance

- Spanning Tree/MSTP, RSTP

  provide redundant links while preventing network loops

- IEEE 802.3ad Link Aggregation Control Protocol (LACP)

  supports up to 26 trunks, each with 8 links per trunk; supports static or dynamic groups

- Smart link

  allows 50 ms failover between links

### Layer 2 switching

- 8K MAC address table

  provides access to many Layer 2 devices

- VLAN support and tagging

  supports IEEE 802.1Q with 4,094 simultaneous VLAN IDs

- IP multicast snooping

  automatically prevents flooding of IP multicast traffic

- Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) protocol snooping

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

### 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

- 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 in Routing Information Protocol (RIP) and Open Standard Path First (OSPF), improving diagnostic capability

**Layer 3 routing**

- Static IP routing

  provides manually configured routing for both IPv4 and IPv6 networks

**Security**

- Access control lists (ACLs)

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

- Identity-driven security and access control

  – Per-user ACLs

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

  – Automatic VLAN assignment

  automatically assigns users to the appropriate VLAN based on their identities

- Secure management access

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

- Secure FTP

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

- Guest VLAN

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

- Port isolation

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

- STP BPDU port protection

  blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks

- STP root guard

  protects the root bridge from malicious attacks or configuration mistakes

- DHCP protection

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

- Dynamic ARP protection

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

- IP source guard

  helps prevent IP spoofing attacks

- Endpoint Admission Defense (EAD)

  provides security policies to users accessing a network

- RADIUS/HWTACACS

  eases switch management security administration by using a password authentication server

- Port security

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

- MAC-based authentication

  allows or denies access to the switch based on a client MAC address

**Convergence**

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

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

- LLDP-MED

  is a standard extension that automatically configures network devices, including LLDP-capable IP phones

- LLDP-CDP compatibility

  receives and recognizes CDP packets from Cisco's IP phones for seamless interoperation

- 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 VLAN

  reduces network bandwidth demand by eliminating multiple streams to each VLAN

**Additional information**

- Green IT and power

  improves energy efficiency through the use of the latest advances in silicon development; shuts off unused ports and utilizes variable-speed fans, reducing energy costs

- Green initiative support

  provides support for RoHS and WEEE regulations

**Warranty and support**

- Limited Lifetime Warranty

  See **hpe.com/networking/warrantysummary** for warranty and support information included with your product purchase.

- Software releases

  To find software for your product, refer to **hpe.com/networking/support**; for details on the software releases available with your product purchase, refer to **hpe.com/networking/warrantysummary**

# HPE 5120 SI Switch Series

## Specifications

| | HPE 5120 48G SI Switch (JE072B) | HPE 5120 24G SI Switch (JE074B) | HPE 5120 16G SI Switch (JE073B) |
|---|---|---|---|
| **I/O ports and slots** | 48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASET/100BASE-TX: half or full; 1000BASE-T: full only<br>4 fixed Gigabit Ethernet SFP ports | 24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASET/100BASE-TX: half or full; 1000BASE-T: full only<br>4 fixed Gigabit Ethernet SFP ports | 16 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASET/100BASE-TX: half or full; 1000BASE-T: full only<br>4 fixed Gigabit Ethernet SFP ports |
| **Additional ports and slots** | 1 RJ-45 serial console port | 1 RJ-45 serial console port | 1 RJ-45 serial console port |
| **Physical characteristics** | | | |
| Dimensions | 17.3(w) x 10.24(d) x 1.72(h) in (43.94 x 26.01 x 4.37 cm) (1U height) | 17.3(w) x 6.3(d) x 1.72(h) in (43.94 x 16 x 4.37 cm) (1U height) | 17.3(w) x 6.3(d) x 1.72(h) in (43.94 x 16 x 4.37 cm) (1U height) |
| Weight | 11.02 lb (5 kg) | 6.61 lb (3 kg) | 6.61 lb (3 kg) |
| **Memory and processor** | 128 MB flash, 128 MB SDRAM; packet buffer size: 1 MB | 128 MB flash, 128 MB SDRAM; packet buffer size: 0.5 MB | 128 MB flash, 128 MB SDRAM; packet buffer size: 0.5 MB |
| **Mounting and enclosure** | Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included) | Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included) | Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included) |
| **Performance** | | | |
| 1000 Mb Latency | < 3 µs | < 3 µs | < 3 µs |
| Throughput | up to 77.4 Mpps | up to 41.7 Mpps | up to 29.8 Mpps |
| Routing/Switching capacity | 104 Gbps | 56 Gbps | 40 Gbps |
| Routing table size | 32 entries (IPv4) | 32 entries (IPv4) | 32 entries (IPv4) |
| **Environment** | | | |
| Operating temperature | 32°F to 113°F (0°C to 45°C) | 32°F to 113°F (0°C to 45°C) | 32°F to 113°F (0°C to 45°C) |
| Operating relative humidity | 10% to 90%, noncondensing | 10% to 90%, noncondensing | 10% to 90%, noncondensing |
| Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) | -40°F to 158°F (-40°C to 70°C) | -40°F to 158°F (-40°C to 70°C) |
| Nonoperating/Storage relative humidity | 5% to 95%, noncondensing | 5% to 95%, noncondensing | 5% to 95%, noncondensing |
| **Acoustics** | Pressure: 42.2 dB, Low-speed fan: 42.2 dB, High-speed fan: 50 dB; ISO 7779 | Pressure: 43.8 dB; ISO 7779 | Pressure: 44.4 dB; ISO 7779 |

| | HPE 5120 48G SI Switch (JE072B) | HPE 5120 24G SI Switch (JE074B) | HPE 5120 16G SI Switch (JE073B) |
|---|---|---|---|
| **Electrical characteristics** | | | |
| Frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| Maximum heat dissipation | 204 BTU/hr (215.22 kJ/hr) | 107 BTU/hr (112.89 kJ/hr) | 85 BTU/hr (89.68 kJ/hr) |
| AC voltage | 100–240 VAC | 100–240 VAC | 100–240 VAC |
| Maximum power rating | 59.8 W | 31.5 W | 25.1 W |
| | **Notes:** Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. | **Notes:** Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. | **Notes:** Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. |
| **Safety** | UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance | UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance | UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance |
| **Emissions** | FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR 22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A | FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR 22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A | FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR 22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A |
| **Management** | IMC—Intelligent Management Center; command-line interface; Web browser; SNMP Manager | IMC—Intelligent Management Center; command-line interface; Web browser; SNMP Manager | IMC—Intelligent Management Center; command-line interface; Web browser; SNMP Manager |
| **Services** | Refer to the Hewlett Packard Enterprise website at **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. | Refer to the Hewlett Packard Enterprise website at **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. | Refer to the Hewlett Packard Enterprise website at **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 5120 SI Switch Series

## Specifications (continued)

**HPE 5120 24G PoE+ SI Switch (JG091B)**

| | |
|---|---|
| **I/O ports and slots** | 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+); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only<br>4 fixed Gigabit Ethernet SFP ports |
| **Additional ports and slots** | 1 RJ-45 serial console port |
| **Physical characteristics** | |
| Dimensions | 17.32(w) x 14.17(d) x 1.72(h) in (44.0 x 36 x 4.36 cm) (1U height) |
| Weight | 15.43 lb (7 kg) |
| **Memory and processor** | 128 MB flash, 128 MB SDRAM; packet buffer size: 0.5 MB |
| **Mounting and enclosure** | Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included) |
| **Performance** | |
| 1000 Mb Latency | < 3 µs |
| Throughput | up to 41.7 Mpps |
| Routing/Switching capacity | 56 Gbps |
| Routing table size | 32 entries (IPv4) |
| **Reliability**<br>MTBF (in years) | 80.65 |
| **Environment** | |
| Operating temperature | 32°F to 113°F (0°C to 45°C) |
| Operating relative humidity | 10% to 90%, noncondensing |
| Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) |
| Nonoperating/Storage relative humidity | 5% to 95%, noncondensing |
| **Acoustics** | Low-speed fan: 51.8 dB,<br>High-speed fan: 55.3 dB; ISO 7779 |
| **Electrical characteristics** | |
| Frequency | 50/60 Hz |
| Maximum heat dissipation | 539 BTU/hr (568.65 kJ/hr) |
| AC voltage | 100 - 240 VAC |
| Maximum power rating | 832 W |
| PoE power | 720 W PoE+ |
| | **Notes:**<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.<br>PoE power is the power supplied by the internal power supply and the optional redundant power unit.<br>With AC input, the maximum power consumption is 523 W (370 W for PoE). |
| **Safety** | UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance |
| **Emissions** | FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR 22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A |
| **Management** | IMC—Intelligent Management Center; command-line interface; Web browser; SNMP Manager |
| **Services** | Refer to the Hewlett Packard Enterprise website at **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 5120 SI Switch Series

## Specifications

| | HPE FlexNetwork 5120 8G PoE+ (180W) SI Switch (JG309B) | HPE FlexNetwork 5120 8G PoE+ (65W) SI Switch (JG310B) |
|---|---|---|
| **I/O ports and slots** | 8 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<br>1 SFP fixed Gigabit Ethernet SFP port | 8 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<br>1 SFP fixed Gigabit Ethernet SFP port |
| **Additional ports and slots** | 1 RJ-45 serial console port | 1 RJ-45 serial console port |
| **Physical characteristics** | | |
| Dimensions | 11.81(w) x 6.3(d) x 1.72(h) in (30.0 x 26 x 4.36 cm) (1U height) | 11.81(w) x 6.3(d) x 1.72(h) in (30.0 x 26.0 x 4.36 cm) (1U height) |
| Weight | 6.61 lb (3 kg) | 6.61 lb (3 kg) |
| **Memory and processor** | 128 MB flash, 128 MB SDRAM; Packet buffer size: 0.5 MB | 128 MB flash, 128 MB SDRAM; Packet buffer size: 0.5 MB |
| **Mounting and enclosure** | Requires angle mounting set if rack mounted (not included) | Requires angle mounting set if rack mounted (not included) |
| **Performance** | | |
| 1000 Mb Latency | < 3 µs | < 3 µs |
| Throughput | up to 13.4 Mpps | up to 13.4 Mpps |
| Routing/Switching capacity | 18 Gbps | 18 Gbps |
| Routing table size | 32 entries (IPv4) | 32 entries (IPv4) |
| MAC address table size | 8192 entries | 8192 entries |
| **Reliability** | 71.94 | 109.89 |
| MTBF (in years) | | |
| **Environment** | | |
| Operating temperature | 32°F to 113°F (0°C to 45°C) | 32°F to 113°F (0°C to 45°C) |
| Operating relative humidity | 10% to 90%, noncondensing | 10% to 90%, noncondensing |
| Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) | -40°F to 158°F (-40°C to 70°C) |
| Nonoperating/Storage relative humidity | 5% to 95%, noncondensing | 5% to 95%, noncondensing |
| Acoustic | Pressure: 39.4 dB, Low-speed fan: 39.4 dB, High-speed fan: 48.6 dB; ISO 7779 | N/A (fanless) |
| **Electrical characteristics** | | |
| Frequency | 50/60 Hz | 50/60 Hz |
| Maximum heat dissipation Voltage | 163 BTU/hr (171.97 kJ/hr) | 95 BTU/hr (100.23 kJ/hr) |
| Maximum power rating Idle power | 100–240 VAC, rated | 100–240 VAC, rated |
| PoE power | 230 W<br>19 W<br>180 W PoE+ | 93 W<br>10 W<br>65 W PoE+ |
| | **Notes:**<br>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.<br>PoE Power is the power supplied by the internal power supply, it is dependent on the type and quantity of power supplies and may be supplemented with the use of an External Power Supply (EPS). | **Notes:**<br>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.<br>PoE Power is the power supplied by the internal power supply, it is dependent on the type and quantity of power supplies and may be supplemented with the use of an External Power Supply (EPS). |
| **Safety** | UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance | UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance |

| | HPE FlexNetwork 5120 8G PoE+ (180W) SI Switch (JG309B) | HPE FlexNetwork 5120 8G PoE+ (65W) SI Switch (JG310B) |
|---|---|---|
| **Emissions** | FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR 22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A | FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR 22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A |
| **Management** | IMC—Intelligent Management Center; Command-line interface; Web browser; SNMP manager | IMC—Intelligent Management Center; Command-line interface; Web browser; SNMP manager |
| **Services** | Refer to the Hewlett Packard Enterprise website at **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 | Refer to the Hewlett Packard Enterprise website at **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 802.1D MAC Bridges IEEE 802.1p Priority<br>IEEE 802.1Q VLANs<br>IEEE 802.1s Multiple Spanning Trees<br>IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.1X PAE<br>IEEE 802.3ad Link Aggregation Control Protocol (LACP) | IEEE 802.3x Flow Control<br>IEEE 802.3z 1000BASE-X Gigabit Ethernet over fiber<br>RFC 768 UDP<br>RFC 792 ICMP<br>RFC 793 TCP<br>RFC 826 ARP<br>RFC 854 TELNET | RFC 951 BOOTP<br>RFC 1350 TFTP Protocol (revision 2)<br>RFC 2131 DHCP<br>RFC 2865 Remote Authentication Dial In User Service (RADIUS)<br>RFC 2866 RADIUS Accounting |
| **IPv6** | RFC 1350 TFTP<br>RFC 1886 DNS Extension for IPv6<br>RFC 1887 IPv6 Unicast Address Allocation Architecture<br>RFC 1981 IPv6 Path MTU Discovery<br>RFC 2292 Advanced Sockets API for IPv6<br>RFC 2373 IPv6 Addressing Architecture<br>RFC 2460 IPv6 Specification<br>RFC 2461 IPv6 Neighbor Discovery<br>RFC 2462 IPv6 Stateless Address Auto-configuration<br>RFC 2463 ICMPv6<br>RFC 2464 Transmission of IPv6 over Ethernet Networks<br>RFC 2475 IPv6 DiffServ Architecture<br>RFC 2553 Basic Socket Interface Extensions for IPv6<br>RFC 2711 IPv6 Router Alert Option<br>RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers | RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only)<br>RFC 2925 Remote Operations MIB (Ping only)<br>RFC 3056 Connection of IPv6 Domains via IPv4 Clouds<br>RFC 3162 RADIUS and IPv6<br>RFC 3363 DNS support<br>RFC 3484 Default Address Selection for IPv6<br>RFC 3493 Basic Socket Interface Extensions for IPv6<br>RFC 3513 IPv6 Addressing Architecture<br>RFC 3542 Advanced Sockets API for IPv6<br>RFC 3587 IPv6 Global Unicast Address Format<br>RFC 3596 DNS Extension for IPv6<br>RFC 3736 Stateless Dynamic Host Configuration Protocol (DHCP) Service for IPv6 | RFC 4007 IPv6 Scoped Address Architecture<br>RFC 4022 MIB for TCP<br>RFC 4113 MIB for UDP<br>RFC 4251 SSHv6 Architecture<br>RFC 4252 SSHv6 Authentication<br>RFC 4253 SSHv6 Transport Layer<br>RFC 4254 SSHv6 Connection<br>RFC 4291 IP Version 6 Addressing Architecture<br>RFC 4293 MIB for IP<br>RFC 4419 Key Exchange for SSH<br>RFC 4443 ICMPv6<br>RFC 4541 IGMP & MLD Snooping Switch<br>RFC 4861 IPv6 Neighbor Discovery<br>RFC 4862 IPv6 Stateless Address Auto-configuration<br>RFC 5095 Deprecation of Type 0 Routing Headers in IPv6<br>RFC 5722 Handling of Overlapping IPv6 Fragments |
| **MIBs** | IEEE8021-PAE-MIB IEEE8023-LAG-MIB<br>RFC 1213 MIB II<br>RFC 1493 Bridge MIB<br>RFC 2011 SNMPv2 MIB for IP<br>RFC 2013 SNMPv2 MIB for UDP<br>RFC 2233 Interface MIB<br>RFC 2571 SNMP Framework MIB | RFC 2572 SNMP-MPD MIB<br>RFC 2573 SNMP-Target MIB<br>RFC 2618 RADIUS Authentication Client MIB<br>RFC 2620 RADIUS Accounting Client MIB<br>RFC 2665 Ethernet-Like-MIB<br>RFC 2668 802.3 MAU MIB<br>RFC 2674 802.1p and IEEE 802.1Q Bridge MIB<br>RFC 2819 RMON MIB | RFC 2925 Ping MIB<br>RFC 3414 SNMP-User based-SM MIB<br>RFC 3415 SNMP-View based-ACM MIB<br>RFC 3418 MIB for SNMPv3<br>RFC 4133 Entity MIB (Version 3)<br>LLDP-EXT-DOT1-MIB<br>LLDP-EXT-DOT3-MIB<br>LLDP-MIB |
| **Network management** | IEEE 802.1AB Link Layer Discovery Protocol (LLDP) | ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) | SNMPv1/v2c/v3 |

## HPE 5120 SI Switch Series accessories

| | |
|---|---|
| **Transceivers** | HPE X120 1G SFP LC SX Transceiver (JD118B)<br>HPE X120 1G SFP LC LX Transceiver (JD119B)<br>HPE X125 1G SFP LC LH40 1310nm Transceiver (JD061A)<br>HPE X120 1G SFP LC LH40 1550nm Transceiver (JD062A)<br>HPE X125 1G SFP LC LH70 Transceiver (JD063B)<br>HPE X120 1G SFP LC BX 10-U Transceiver (JD098B)<br>HPE X120 1G SFP LC BX 10-D Transceiver (JD099B)<br>HPE X120 1G SFP RJ45 T Transceiver (JD089B) |
| **Cables** | HPE 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A)<br>HPE 1 m Multimode OM3 LC/LC Optical Cable (AJ834A)<br>HPE 2 m Multimode OM3 LC/LC Optical Cable (AJ835A)<br>HPE 5 m Multimode OM3 LC/LC Optical Cable (AJ836A)<br>HPE 15 m Multimode OM3 LC/LC Optical Cable (AJ837A)<br>HPE 30 m Multimode OM3 LC/LC Optical Cable (AJ838A)<br>HPE 50 m Multimode OM3 LC/LC Optical Cable (AJ839A)<br>HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable (QK732A)<br>HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable (QK733A)<br>HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable (QK734A)<br>HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable (QK735A)<br>HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable (QK736A)<br>HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable (QK737A)<br>HPE 3600 Switch SFP Stacking Kit (JD324B) |

## HPE FlexNetwork 5120 24G PoE+ (370W) SI Switch (JG091B)

| | |
|---|---|
| **Power Supply** | HPE RPS1600 Redundant Power System (JG136A)[1]<br>HPE RPS1600 1600W AC Power Supply (JG137A)[1] |
| **Power Cords and Adapters** | HPE X290 1000 A JD5 2m RPS Cable (JD187A) |

## HPE FlexNetwork 5120 8G PoE+ (180W) SI Switch (JG309B)

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|---|---|
| **Mounting Kit** | HPE 3100/4210-16/-8 PoE Rack Mount Kit (JD323A) |

## HPE FlexNetwork 5120 8G PoE+ (65W) SI Switch (JG310B)

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|---|---|
| **Mounting Kit** | HPE 3100/4210-16/-8 PoE Rack Mount Kit (JD323A) |

[1] Products covered by 1 year warranty. See details at **hpe.com/networking/warrantyquickref**

Learn more at
**hpe.com/networking**

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