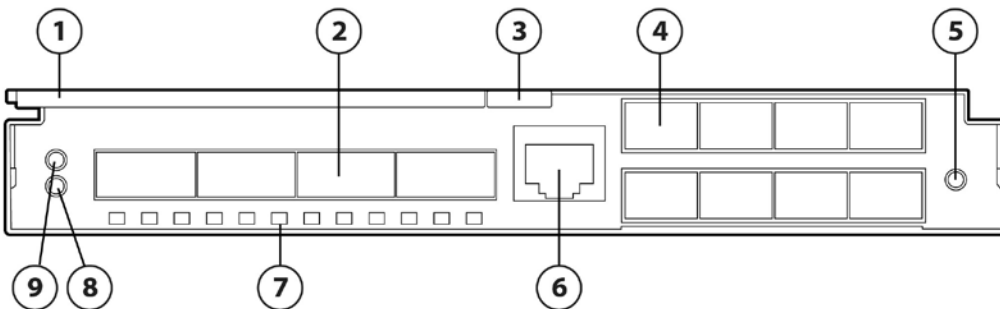


### Overview

#### HPE 6127XLG Blade Switch

Today's complex data centers require a demanding networking infrastructure. It all starts at the edge and that's where the HPE 6127XLG Ethernet Blade Switch excels. The HPE 6127XLG Switch is designed to support virtualized server environments with exceptional bandwidth of 20Gb to each and every server, while providing a mix of 40Gb and 10Gb links (with an astounding aggregate of 240Gb) to the core network. Combined with hardware support for VXLAN encapsulation, this provides the perfect switch for Private/Public/Hybrid Cloud applications. Enterprise customers will not be disappointed with the HPE 6127XLG which also provides a converged fabric solution that supports Ethernet, iSCSI, Fibre Channel over Ethernet (FCoE), and Fibre Channel Forwarder (FCF) protocols that enables connectivity for multiple storage topologies. The HPE 6127XLG supports the HPE Software-defined Network (SDN) ecosystem that delivers simple, open, and Enterprise ready benefits to automate the data center network. With support for IETF industry standard TRILL (Transparent Interconnection of Lots of Links) and SPB (Shortest Path Bridging), the HPE 6127XLG delivers loop free large Layer 2 networks with multi-path support. Using The Hewlett Packard Enterprise Intelligent Resilient Framework, (IRF) multiple switches can be virtualized and managed as a single entity with The Hewlett Packard Enterprise Intelligent Management Center (IMC). A full complement of Layer 2/3 protocols and the latest in network security features round out this most capable of blade switches.



**Figure 1 HPE 6127XLG Blade Switch**

- |                                 |                      |
|---------------------------------|----------------------|
| 1. Ejector Lever                | 6. Console port      |
| 2. Four (4)x 40Gb (QSFP+) ports | 7. Port LED          |
| 3. Release tab                  | 8. Health LED        |
| 4. Eight (8)x 10Gb (SFP+) ports | 9. Unit ID (UID) LED |
| 5. Reset button                 |                      |

### Models

HPE 6127XLG Ethernet Blade Switch

787635-B21

HPE 6127XLG Ethernet Blade Switch for TAA

787635-B22

### Compatibility

**HPE ProLiant Servers**

- HPE ProLiant BL460c Gen9
- HPE ProLiant BL660c Gen9
- HPE ProLiant BL420c Gen8
- HPE ProLiant BL460c Gen8

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## Overview

HPE ProLiant BL465c Gen8  
HPE ProLiant BL660c Gen8  
HPE ProLiant BL460 G7  
HPE ProLiant BL465 G7  
HPE ProLiant BL490 G7  
HPE ProLiant BL620 G7  
HPE ProLiant BL680 G7  
HPE ProLiant BL685 G7

**NOTE:** Some servers listed above may be discontinued.

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### HPE Integrity Servers

HPE Integrity BL860c i2 Server Blade  
HPE Integrity BL860c i4 Server Blade  
HPE Integrity BL870c i2 Server Blade  
HPE Integrity BL870c i4 Server Blade  
HPE Integrity BL890c i2 Server Blade  
HPE Integrity BL890c i4 Server Blade  
HPE Integrity Superdome 2

**NOTE:** Some servers listed above may be discontinued.

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### ProLiant BL c-Class Server Blade Enclosures

HPE BladeSystem c7000 Enclosure

## Standard Features

### Standard Features

#### Performance

- 240Gb uplink bandwidth / 320Gb available server side bandwidth
- Dedicated 4x10Gb internal cross ink ports between adjacent switches
- Non-blocking architecture
- Wire-speed switching and IPv4/IPv6 routing on all ports
- Supports FCoE N-Port Virtualization (NPV) and Fibre Channel Forwarder (FCF) modes
- Combine up to 8 switches into a single virtual switch using IRF II
- FCF provides a direct attach capability which allows attachment of 3PAR storage array FCoE ports directly to the switch
- QSFP+ ports support 4 x 10Gb with optional breakout cable
- SFP+ ports support either 1Gb or 10Gb depending on module inserted
- Any uplink or cross connect port can be used for IRF connections
- Cut-through switching
- Hardware-based wire-speed access control lists (ACLs)
- Data Center Bridging (DCBX)
- Support for VEPA (IEEE 802.1Qbg)
- Support for VXLAN (RFC 7348)

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#### Management

- Remote configuration and management CLI
- Standards-based SNMP management via SNMPv1, v2c and v3
- Out of band management via Onboard Administrator
- HPE IMC Virtual Application Networking Fabric Manager
- Virtual Application Network (VAN)
- SDN with OpenFlow 1.3
- RJ45 console port
- HTTPS Web based management
- sFlow
- Manager and operator privilege levels
- Command authorization via RADIUS
- Complete session logging for problem resolution
- LLDP Discovery protocol
- IPv6 management
- Multiple flash images
- Multiple configuration files
- Syslog
- Network Time Protocol (NTP)

---

#### Security

- IEEE 802.1X user authentication
- MAC-based authentication with RADIUS server
- Access Control Lists (ACLs)
- Secure FTP
- STP Root Guard
- DHCP Protection from unauthorized DHCP servers
- IP Source Guard
- Dynamic ARP protection to prevent eavesdropping
- Endpoint Admission Defense (EAD)
- RADIUS/TACACS+
- Secure management via SSHv2 and SNMPv3
- Unicast Reverse Path Forwarding (URPF)
- Monitor link and Smart link

---

## Standard Features

- IPsec
- IKE (Internet Key Exchange)
- Disable password recovery

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### Layer 2 Switching

- 128K MAC addresses
- 4094 VLANs
- IEEE 802.1ad QinQ VLANs
- Per VLAN Spanning Tree (PVST+)
- Private VLANs (PVLAN)
- Multicast VLAN Registration Protocol (MVRP)
- Jumbo frame support
- Port Aggregation
- Spanning Tree Protocol, MSTP, RSTP, STP Root Guard
- IP Multicast Snooping and data-driven IGMP
- Transparent Interconnect of Lots of Links (TRILL)
- Shortest Path Bridging (SPB)
- Multiple Label Switching (MPLS)
- Virtual Private LAN Service (VPLS)

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### Layer 3 Routing

- IPv4 routing protocols - static routes, RIP, OSPF and BGP
- IPv6 routing protocols - static routes, RIPng, OSPFv3 and BGP+
- IPv6 tunneling
- IP Multicast - PIM-SSM, PIM-DM, PIM-SM, IGMP for IPv4 and IPv6
- Equal-Cost Multipath (ECMP)
- Policy-based routing
- DHCP and DHCPv6 client
- VRRP
- VXLAN

---

### Quality of Service (QoS)

- Advanced classifier-based QoS (with eight queues) - classifies traffic using multiple match criteria based on Layer 2, 3 and 4 information and applies QoS policies such as priority level and rate limit to selected traffic on a per-port or per-VLAN basis
- Traffic policing - supports Committed Access Rate (CAR) and line rate
- Powerful QoS feature - creates traffic classes based on access control lists (ACL), IEEE 802.1p precedence, IP, DSCP or Type of Service (ToS) precedence; supports filter, redirect, mirror or remark; supports the following congestion actions: strict priority (SP) queuing, weighted round robin (WRR), weighted fair queuing (WFQ), and weighted random early discard (WRED)
- Storm restraint - allows limitation of broadcast, multicast, and unknown unicast traffic rate to cut down on unwanted broadcast traffic on the network

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### Resiliency and High Availability

- Intelligent Resilient Framework (IRF) - Creates virtual resilient switching fabrics, up to eight 6127XLG switches acting as a single Layer 2/3 switch; 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; Simplifies network operation by eliminating Spanning Tree, ECMP and VRRP.
- Device Link Detection Protocol (DLDP) - Monitors Link connectivity and shuts down ports at both ends if unidirectional traffic is detected
- Virtual Router Redundancy Protocol (VRRP)

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### Monitoring and Diagnostics

- OAM (802.3ah) - Detects data link layer problems in the "last mile"; monitors link status between two devices
- CFD (802.1ag) - Connectivity Fault Detection (CFD) provides L2 link OAM mechanism used for link

## Standard Features

- connectivity detection and fault location
- Mirroring - Port mirroring enables traffic on a port to be simultaneously sent to a network analyzer for monitoring; Flow-based mirroring

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## Service and Support

### Service and Support

#### HPE Technology Services

When you buy HPE BladeSystem Options for your HPE BladeSystem, it is also good time to think about services. HPE Technology Services offers you technical consultants and support expertise to solve your most complex infrastructure problems, giving you one call to make, fast answers, and global reach. We help keep your business running, boost availability, and avoid downtime.

#### Protect your business beyond warranty with HPE Care Pack Services

HPE Care Pack services provide total care and support expertise with committed response choices designed to meet your IT and business needs.

HPE Foundation Care services offer scalable, reactive support-packages for Hewlett Packard Enterprise industry-standard servers and software. You can choose the type and level of service that is most suitable for your IT and business needs. HPE Collaborative Support offers hardware and basic software support with enhanced call management. If you are running business critical environments, Hewlett Packard Enterprise offers Proactive Care. This service helps you deliver high levels of system availability through proactive service management and advanced technical response.

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## Recommended HPE Care Pack Services for your HPE product

### Optimized Care

#### 3- Year HPE Foundation Care CTR

HPE Foundation Care Call-To-Repair Service connects you to HPE around the clock for assistance on resolving issues -this includes our commitment to repair hardware within six hours after opening your case and response to software questions within two hours.

<https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW>

#### HPE Installation of ProLiant Add On Options Service

This easy-to-buy, easy-to-use HPE Care Pack service helps ensure that your new Hewlett Packard Enterprise hardware is installed smoothly, efficiently, and with minimal disruption of your IT and business operations

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### Standard Care

#### 3-Year HPE Foundation Care 24x7

HPE Foundation Care 24x7 connects you to HPE around the clock for assistance on resolving issues - hardware onsite response within four hours and software call back within two hours after opening your case.

<https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW>

#### HPE Installation of ProLiant Add On Options Service

This easy-to-buy, easy-to-use HPE Care Pack service helps ensure that your new Hewlett Packard Enterprise hardware is installed smoothly, efficiently, and with minimal disruption of your IT and business operations.

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### Related Services

#### HPE Installation and Startup Service for HPE BladeSystem c-Class Enhanced Network

Hewlett Packard Enterprise provides for the configuration and testing of BladeSystem Ethernet interconnect switches to facilitate proper implementation of network protocols and access to advanced features.

<https://www.hpe.com/h20195/V2/GetPDF.aspx/4aa0-5969ENW.pdf>

#### HPE Proactive Select Service

Provides a flexible way to purchase HPE best-in-class consultancy and technical services. You can buy Proactive Select Service Credits when you purchase your hardware and then use the credits over the next 12 months. <https://www.hpe.com/h20195/V2/GetPDF.aspx/4AA2-3842ENN.pdf>

**NOTE:** Additional HPE Care Pack services can be found at: <http://hp.com/go/cpc>

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## Service and Support

**Insight Online/Insight Remote Support** HPE Insight Remote Support provides 24 X 7 remote monitoring, proactive notifications, and problem resolution. This comes at no additional cost with your HPE solution. Learn more about **Insight Remote Support** and **Insight Online**.

**NOTE:** Insight Remote Support is a prerequisite for HPE Proactive Care

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**HPE Support Center** Personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with HPE experts, access support resources or collaborate with peers. Learn more **<https://www.hpe.com/us/en/support.html>**

The HPE Support Center Mobile App allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a HPE warranty, HPE Care Pack or Hewlett Packard Enterprise contractual support agreement.

**NOTE:** HPE Support Center Mobile App above is subject to local availability.

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**Parts and materials** Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product QuickSpecs or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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**Service Coverage** The HPE 6127XLG includes 3-years hardware support with next business day onsite response during standard business hours. If you have requirements for longer durations of service, faster response times or more comprehensive support, HPE Care Pack services for the HPE 6127XLG are available to uplift or extend your coverage.

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**For more information** To learn more about HPE BladeSystem services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized ServiceONE Channel Partner. Or visit: **<http://www.hpe.com/services/bladesystem>**

## Related Options

<b>SFP Options</b>	HPE X120 1G SFP LC SX Transceiver	JD118B
	HPE X120 1G SFP LC LX Transceiver	JD119B
	HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
	HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
	HPE X125 1G SFP LC LH70 Transceiver	JD063B
	HPE X120 1G SFP RJ45 T Transceiver	JD089B
<b>SFP+ Options</b>	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 X130 10G SFP+ LC ER 40km Transceiver	JG234A
<b>QSFP+ Options</b>	HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
	HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
	HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
	HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
<b>Direct Attach Cables</b>	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 FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
	HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
	HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
	HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
	HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
	HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A	
<b>Service and Support Offerings</b>	<b>Hardware Services On-site Service</b>	
	HPE 3 year Foundation Care 24x7 6125XLG Blade Switch Service	U2HF2E
	HPE 3 year Foundation Care Call to Repair 6125XLG Blade Switch Service	U2HF4E
	<b>Installation Services</b>	
	HPE Installation of ProLiant Add On/In Options Service	UH745E
	HPE BladSys c7000 Encd Network Startup Service	UE603E
	<b>NOTE:</b> Additional HPE Care Pack services can be found at: <a href="http://hp.com/go/cpc">http://hp.com/go/cpc</a>	



## Technical Specifications

<b>Shipping Dimensions</b>	<b>Length</b>	11.54 in (293 mm)	
	<b>Width</b>	14.57 in (370 mm)	
	<b>Height</b>	3.54 in (95 mm)	
	<b>Shipping Weight</b>	2.1 kg (4.62 lbs)	
<b>Product Specifications Hardware</b>	<b>Performance</b>	1.2Tbps throughput 8x10Gb and 4x40Gb uplink ports 16x20Gb downlink (server) ports 4 x10Gbps cross-link ports	
	<b>Forwarding rate</b>	14.8 million pps per 10 Gig port 59.2 million pps per 40 Gig port	
		Non-blocking, full-wire speed for all connections Auto-MDI/MDIX, auto-negotiation and auto-sensing with full-duplex support.	
	<b>Forwarding Mode</b>	Store and forward/Cut Through	
	<b>Latency</b>	1us (store and forward mode)	
	<b>MAC Addresses</b>	Supports 128K MAC addresses per switch in a BladeSystem Enclosure	
	<b>Forwarding Table Age Time</b> (Maximum age)	10 to 1,000,000 seconds (default: 300 seconds)	
	<b>VLAN IDs</b>	4094	
	<b>Jumbo Frame</b>	10K Bytes	
	<b>IGMP Groups</b>	1024	
	<b>Memory</b>	2 GB Main, 512MB flash and 9MB packet buffer	
	<b>Connectors and Cabling</b>	<b>Connector</b>	4 QSFP+ (40Gb/4 x10Gb/IRF) 8 SFP+/SFP (1Gb/10Gb/IRF) 1 RJ45 Management
		<b>Cable Support</b>	FCC Class A ICES-003 Class A AS/NZS 3548 Class A VCCI Class A
<b>Indicators</b>	Module health, amber/green Module locator (UID), blue QSFP+ port link/activity, green SFP+ port link/activity, green		
<b>Dimensions</b>	<b>Length</b>	10.54 in (267.7 mm)	
	<b>Width</b>	7.59 in (192.8 mm)	
	<b>Height</b>	1.1 in (27.9 mm) 1.2	
<b>Weight</b>	2.0 kg (4.41 lbs)		
<b>Environmental Ranges</b>	<b>Temperature Range</b>		
	Operating	50° to 95° F (10° to 35° C)	

## Technical Specifications

Non-operating	-40° to 158° F (-40° to 70° C)
Relative Humidity (non-condensing)	Operating 10% to 90%

<b>Power Specification</b>	<b>Power Requirements</b>	95W
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### Standards Support General protocols

IEEE 802.1ag Service Layer OAM  
 IEEE 802.1D MAC Bridges  
 IEEE 802.1p Priority  
 IEEE 802.1Q VLANs  
 IEEE 802.1Qbg Virtual Edge Bridging  
 IEEE 802.1s (MSTP)  
 IEEE 802.1v VLAN classification by Protocol and Port  
 IEEE 802.1w Rapid Reconfiguration of Spanning Tree  
 IEEE 802.1X PAE  
 IEEE 802.1AX / 802.3ad Link Aggregation Control Protocol (LACP)  
 IEEE 802.3ae 10 Gigabit Ethernet  
 RFC 768 UDP  
 RFC 792 ICMP  
 RFC 793 TCP  
 RFC 826 ARP  
 RFC 854 TELNET  
 RFC 925 Multi-LAN Address Resolution  
 RFC 951 BOOTP  
 RFC 1058 RIPv1  
 RFC 1350 TFTP Protocol (revision 2)  
 RFC 1519 CIDR  
 RFC 1542 BOOTP Extensions  
 RFC 2131 DHCP  
 RFC 2453 RIPv2  
 RFC 3768 VRRP  
 RFC 4675 RADIUS VLAN & Priority  
 RFC 7348 VXLAN  
 802.1r GARP Proprietary Attribute Registration Protocol (GPRP)

### FCoE

802.1Qaz DCBx  
 802.1Qaz ETS  
 802.1Qbb PFC  
 FIP Snooping  
 Fibre Channel Forwarder (FCF)  
 NPV mode

### IP Multicast

RFC 2934 Protocol Independent Multicast MIB for IPv4  
 RFC 3376 IGMPv3 (host joins only)  
 RFC 3618 Multicast Source Discovery Protocol (MSDP)  
 RFC 3973 Draft 2 PIM Dense Mode  
 RFC 4601 PIM Sparse Mode

### IPv6

RFC 4443 ICMPv6  
 RFC 4541 IGMP & MLD Snooping Switch  
 RFC 4861 IPv6 Neighbor Discovery

## Technical Specifications

RFC 4862 IPv6 Stateless Address Auto-configuration

### Layer 3

Static routes  
RIP / RIPng  
OSPF / OSPFv3  
BGP / BGP+  
IPv6 tunneling  
PIM-SM  
PIM-SSM  
PIM-DM  
IGMP  
ECMP  
Policy-based routing  
DHCP and DHCPv6 client

### MIBs

IEEE 8021ag CFM-MIB  
IEEE 8021Q CFM-MIBv2  
IEEE 8021AB LLDP-MIB  
IEEE 8021AB LLDP-EXT-DOT1-MIB  
IEEE 8021AB LLDP-EXT-DOT3-MIB  
ANSI/TAA 1057 LLDP-EXT-MED-MIB  
IEEE 8023 LAG-MIB  
RFC 1213 MIB  
RFC 1493 BRIDGE-MIB  
RFC 2096 IP-FORWARD-MIB  
RFC 2233 IF-MIB  
RFC 2273 SNMP-NOTIFICATION-MIB  
RFC 2571 SNMP-FRAMEWORK-MIB  
RFC 2572 SNMP-MPD-MIB  
RFC 2573 SNMP-TARGET-MIB  
RFC 2674 P-BRIDGE-MIB  
RFC 2674 Q-BRIDGE-MIB  
RFC 3414 SNMP-USER-BASED-SM-MIB  
RFC 3415 SNMP-VIEW-BASED-ACM-MIB  
RFC 3417 SNMPv2-TM-MIB  
RFC 3418 SNMPv2-MIB  
RFC 3826 SNMP-USM-AES-MIB  
RFC 4022 TCP-MIB  
RFC 4044 FC-MGMT-MIB  
RFC 4113 UDP-MIB  
RFC 4133 ENTITY-MIB  
RFC 4273 BGP4-MIB  
RFC 4747 T11-FC-VIRTUAL-FABRIC-MIB  
RFC 4750 OSPF-MIB  
RFC 4750 OSPF-TRAP-MIB  
RFC 4936 T11-FC-ZONE-SERVER-MIB  
SFLOW-MIB (V5)

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### Safety and Compliance Safety Certifications

Complies with UL 60950-1, CAN/CSA C22.2 No. 60950-1 and EN 60950-1. UL certified.  
CE Marking  
RoHS 6/6 compliant

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## Technical Specifications

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<b>Electromagnetic Emissions</b>	FCC Part 15 Class A
<b>Certifications FCC Part 15 Class A</b>	EN 55022: 1998 (CISPR22)
	EN 55024: 1998 (CISPR24)
	VCCI Class A
	AS/NZS 3548 Class A CE
	CNS 13438 Class A MIC
	MIC

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### Environment-friendly Products and Approach

### End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to <http://www.hpe.com/info/recycle>. To recycle your product, please go to: <http://www.hpe.com/info/recycle> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hpe.com/info/recycle>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

## Summary of Changes

Date	Version History	Action	Description of Change
26-May-2017	From Version 3 to 4	Changed	Match Product Bulletin version.
27-Jan-2017	From Version 2 to 3	Changed	Standard Features and Technical Specifications sections were updated.
05-Aug-2016	From Version 1 to 2	Changed	Sections in QuickSpecs were updated.



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