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HPE Networking Comware Switch Series 5150 HI QuickSpecs

The HPE Networking Comware Switch Series 5150 HI is a family of stackable L3 access switches powered by HPE Comware OS delivering scalability and resiliency for medium and large enterprise campus networks.

With 24 and 48 MACsec-256 enabled 1 GbE downlink ports, 10/25 GbE uplinks, combo ports, and up to 90 watts of 802.3bt PoE per port in the PoE models, this flexible series delivers security and performance to connect clients, servers, and IoT devices. Intelligent Resilient Fabric (IRF) stacking up to 9-members adds scale and high availability while Intelligent Network Quality Analyzer (iNQA) supports real-time visibility into network health and performance.

Overview

Network visibility, management, and operation tools for this series include standard CLI and the Smart Management Center (SmartMC), embedded and ready to use at no additional cost. The series integrates with HPE Aruba Networking IMC, delivering a centralized point of control for your entire network



HPE Networking Comware Sw 24G 8F 6Y 5150HI (S5T46A)



HPE Networking Comware Sw 48G 6Y 5150HI (S5T47A)

Overview

Key Features

- Stackable gigabit L3 access switches with 10/25 GbE uplinks, supporting MPLS, VPLS, L3 multicast, VXLAN/EVPN, OSPF, VRRP, VRRPE, RIP, and routed access. 802.3bt up to 90 watts per port on PoE models.
- 24 and 48 port options available, with up to 396 Gbps of switching capacity and 294 Mpps of forwarding throughput. Scales up to 9-members with Intelligent Resilient Fabric (IRF) stacking.
- Industry standard MACsec 256 support, increased MAC port binding and link group capacity for improved encryption and end-to-end network security
- In-Service Software Upgrades (ISSU) enable high availability by lowering downtime caused by planned maintenance and software upgrades
- DRNI combines multiple physical switches into one virtual distributed-relay (DR) system for doubling aggregate bandwidth, faster forwarding, resiliency, and high availability.
- Intelligent Network Quality Analyzer (iNQA) measures network packet loss performance and provides visibility into realtime application performance and health.
- , . Network visibility, management, and operation tools include HPE Intelligent Management Center (IMC), standard CLI, SNMP manager, and REST API for seamless integration into third party dashboards

Standard Features

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

Standard Features

Troubleshooting
Ingress and egress port monitoring enables network problem-solving; virtual cable tests provide visibility into cable problems

HPE Intelligent Management Center (IMC)
Integrates fault management, element configuration, and network monitoring from a central vantage point; built-in support for third-party devices enables network administrators to centrally manage all network elements with a variety of automated tasks, including discovery, categorization, baseline configurations, and software images; the software also provides configuration comparison tools, version tracking, change alerts, and more

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

Security

Access control lists (ACLs)
Provides IP Layer 2 to Layer 4 traffic filtering; supports global ACL, VLAN ACL, port ACL, and IPv6 ACL

IEEE 802.1X
Industry-standard method of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server

MAC-based authentication
Client is authenticated with the RADIUS server based on the client's MAC address
Supports industry standard AES256 MACsec which provides increased MAC port binding and link group capacity for greater end-to-end security.

Identity-driven security and access control

- **Per-user ACLs**
  Permits or denies user access to specific network resources based on user identity and time of day, allowing multiple types of users on the same network to access specific network services without risking network security or providing unauthorized access to sensitive data
- **Automatic VLAN assignment**
  Automatically assigns users to the appropriate VLAN based on their identities

Secure management access
Delivers secure encryption of all access methods (CLI, GUI, or MIB) through SSHv2, SSL, HTTPS and/or SNMPv3

Secure FTP/ SCP
Allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file

Guest VLAN
Provides a browser-based environment to authenticated clients that is similar to IEEE 802.1X

Port security
Allows access only to specified MAC addresses, which can be learned or specified by the administrator

Standard Features

Port isolation
Secures and adds privacy, and prevents malicious attackers from obtaining user information

STP BPDU port protection
Blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks

STP root guard
Protects the root bridge from malicious attacks or configuration mistakes

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

IP source guard
Helps prevent IP spoofing attacks

Dynamic ARP protection
Blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data

RADIUS/HWTACACS
Eases switch management security administration by using a password authentication server

Endpoint Admission Defense (EAD)
Provides security policies to users accessing a network

IPv6 source guard
Help prevent IPv6 spoofing attacks using ND Snooping as well as DHCPv6 Snooping

Quality of Service (QoS)

Broadcast control
Allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic

Advanced classifier-based QoS
Classifies traffic using multiple match criteria based on Layers 2, 3, and 4 information; applies QoS policies such as setting priority level and rate limit to selected traffic on a port, VLAN, or entire switch

Powerful QoS feature
Supports the following congestion actions: strict priority (SP) queuing, weighted round robin (WRR), and SP+WRR

Traffic policing
Supports Committed Access Rate (CAR) and line rate

Connectivity

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

Standard Features

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 DRNI, enables link aggregation from multiple switches to implement device-level link backup for node redundancy. DRNI also simplifies network topology by virtualizing two physical devices into a logical device.

iNQA helps in measuring network packet loss performance, forward, reverse, and two-way packet loss, including lost number of messages and bytes, message loss and byte loss rate.

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+

Standard Features

Layer 2 Switching

32K MAC address table
Provides access to many Layer 2 devices

VLAN support and tagging
Supports IEEE 802.1Q with 4,094 simultaneous VLAN IDs

IEEE 802.1ad QinQ and selective QinQ
Increase the scalability of an Ethernet network by providing a hierarchical structure; connect multiple LANs on a high-speed campus or metro network

10/25GbE 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

Standard Features

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

Open shortest path first (OSPF)
Delivers faster convergence; uses this link-state routing Interior Gateway Protocol (IGP), which supports ECMP, NSSA, and MD5 authentication for increased security and graceful restart for faster failure recovery

Routing Information Protocol (RIP)
Uses a distance vector algorithm with UDP packets for route determination; supports RIPv1 and RIPv2 routing; includes loop protection

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

Convergence

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
Facilitates easy mapping using network management applications with LLDP automated device discovery protocol

LLDP-MED (Media Endpoint Discovery)
Defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones

LLDP-CDP compatibility
Receives and recognizes CDP packets from Cisco's IP phones for seamless interoperation

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

PoE allocations
Supports multiple methods (automatic, IEEE 802.3af class, LLDP-MED, or user-specified) to allocate PoE power for more efficient energy savings

Voice VLAN
Automatically assigns VLAN and priority for IP phones, simplifying network configuration and maintenance

Standard Features

IP multicast snooping (data-driven IGMP)
Prevents flooding of IP multicast traffic

Multicast Source Discovery Protocol (MSDP)
Allows multiple PIM-SM domains to interoperate; is used for inter-domain multicast applications

Device Support

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

Manageability

Dual flash images
Provides independent primary and secondary operating system files for backup while upgrading

Multiple configuration files
Allow multiple configuration files to be stored to a flash image

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

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

Additional Information

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

Green initiative support
Provides support for RoHS and WEEE regulations

Unified Hewlett Packard Enterprise Comware operating system with modular architecture
Provides an easy-to-enhance-and-extend feature set, which doesn't require whole-scale changes; all switching, routing, and security platforms leverage the Comware OS, a common unified modular operating system

Energy Efficient Ethernet (EEE) support
Reduces power consumption in accordance with IEEE 802.3az

Warranty and Support

Limited Lifetime Warranty

See HPE Aruba Networking Support 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 HPE Aruba Networking Support.

Configuration Information

BTO Models

Switch Chassis

Description	SKU
HPE Networking Comware Switch 24p 10M/100M/1G 8p SFP 1G Combo 6p SFP28 10G/25G 5150HI – 24 fixed 10/100/1000Base-T Ports – 8 combo SFP Ports – min=0 \ max 8 SFP Transceivers – 6 fixed SFP+/SFP28 Ports – min=0 \ max=6 SFP+/SFP28 Transceivers – Must select min1/max2 power supply – Must select min2/max2 Fan Trays – 1U - Height	S5T46A
HPE Networking Comware Switch 48p 10M/100M/1G 6p SFP28 10G/25G 5150HI – 48 fixed 10/100/1000Base-T Ports – 6 fixed SFP+/SFP28 Ports – min=0 \ max=6 SFP+/SFP28 Transceivers – Must select min1/max2 power supply – Must select min2/max2 Fan Trays – 1U - Height	S5T47A

Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware > Campus > 5150 HI Switch Series

Transceivers

FE SFP Transceivers

Notes: For S0T02A module only

Description	SKU
HPE Networking X115 100M SFP LC FX Transceiver	JD102B
HPE Networking X110 100M SFP LC LX Transceiver	JD120B
HPE Networking X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE Networking X115 100M SFP LC BX 10-D Transceiver	JD101A

SFP Transceivers

Description	SKU
HPE Networking X120 1G SFP RJ45 T Transceiver	JD089B
HPE Networking X120 1G SFP LC SX Transceiver	JD118B
HPE Networking X120 1G SFP LC LX Transceiver	JD119B
HPE Networking X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE Networking X120 1G SFP LC BX 10-D Transceiver	JD099B
HPE Networking X120 1G SFP LC LH100 Transceiver	JD103A

Configuration Information

SFP+ Transceivers

Description	SKU
HPE Networking X130 10G SFP+ LC BiDi 40km-Downlink Transceiver	JL740A
HPE Networking X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE Networking X130 10G SFP+ LC BiDi 40km-Uplink Transceiver	JL739A
HPE Networking X130 10G SFP+ LC LH 80km Transceiver	JG915A
HPE Networking X130 10G SFP+ LC SR Transceiver	JD092B
HPE Networking X130 10G SFP+ LC LR Transceiver	JD094B
HPE Networking X130 10G SFP+ LC BiDi 10km-Uplink Transceiver	JL737A
HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver	JL738A
HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable	JD097C
HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable	JG081C
HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable	JD095C
HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C
HPE Networking X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A

SFP28 Transceiver

Description	SKU
HPE Networking X190 25G SFP28 LC SR 100m MM Transceiver	JL293A
HPE Networking 25G SFP28 LC LR 10km SMF Transceiver	JL855A
HPE Networking X240 25G SFP28 to SFP28 1m DAC Cable	JL294A
HPE Networking X240 25G SFP28 to SFP28 3m DAC Cable	JL295A
HPE Networking X240 25G SFP28 to SFP28 5m DAC Cable	JL296A
HPE Networking X2A0 25G SFP28 to SFP28 3m Active Optical Cable	JH955A
HPE Networking X2A0 25G SFP28 to SFP28 5m Active Optical Cable	JH956A
HPE Networking X2A0 25G SFP28 to SFP28 7m Active Optical Cable	JL297A
HPE Networking X2A0 25G SFP28 to SFP28 10m Active Optical Cable	JL298A
HPE Networking X2A0 25G SFP28 to SFP28 20m Active Optical Cable	JL299A

Cables

Multi-Mode Cables

Description	SKU
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

Configuration Information

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

Description	SKU
HPE Networking Comware 5150 70W AC Power Supply	S5Z19A
– includes 1 x c13, 70w	
HPE Networking Comware 5150 70W AC Power Supply	S5Z19A
– C13 PDU Jumper Cord (NA/MEX/TW/JP)	
HPE Networking Comware 5150 70W AC Power Supply	S5Z19A
– C13 PDU Jumper Cord (ROW)	
HPE Networking Comware 5150 70W AC Power Supply	S5Z19A
– HPE 2.3m C13 to NEMA 6-15P Pwr Cord(J9936A)	
HPE Networking Comware 5150 70W AC Power Supply	S5Z19A
– No Localized Power Cord Selected	
HPE Networking Comware 5X50 180W DC Power Supply	S5Z23A
HPE Networking Comware 5x50HI 920W AC PoE Power Supply	S5Z24A
HPE Networking Comware 5x50HI 1600W AC PoE Power Supply	S5Z25A

Accessories

Fan Trays

Description	SKU
HPE Networking Comware 5150HI Front-to-Back Fan Tray	S5Z27A
HPE Networking Comware 5150HI Back-to-Front Fan Tray	S5Z26A

Technical Specifications

HPE Networking Comware Switch Series 5150 HI		
Specifications	**S5T46A** **NW CW Sw 24G 8F 6Y 5150HI**	**S5T47A** **NW CW Sw 48G 6Y 5150HI**
Fixed Ports	24x 10/100/1000BASE-T ports 8x 100/1000BASE-X SFP Combo ports 6x 10G/25G SFP28 ports	48x 10/100/1000BASE-T ports 6x 10G/25G SFP28 ports
Additional Ports	1x RJ45 console 1x USB 1x OOBM	1x RJ45 console 1x USB 1x OOBM
Expansion slots	-	-
Power supplies	1+1, hot swappable	1+1, hot swappable
Fans	1+1, hot swappable	1+1, hot swappable
Physical Characteristics		
Dimensions	440mm×360mm ×43.6mm	440mm×360mm ×43.6mm
Weight		
CPU	ARM 1.6GHz @ Dual Core	ARM 1.6GHz @ Dual Core
Memory and Flash	4GB RAM 4GB Flash	4GB RAM 4GB Flash
Packet Buffer	3MB	3MB
Performance		
Forwarding Capacity	348 Gbps	396 Gbps
Throughput	258.9Mpps	294.6Mpps
Average Latency	GE:<5 25GE:<3	GE:<5 25GE:<3
Stacking Members	9	9
Stacking Bandwidth	300Gbps	300Gbps
Switched virtual interface	1K	1K
Mac Address Table	32K	32K
IPv4 Routes	32K	32K
IPv4 host table (ARP)	16K	16K
IPv6 Routes	16K	16K
IPv6 Host Table (ND)	16,376	16,376
IPv4/v6 Multicast Routes	1000/1000	1000/1000
IGMP groups	2000	2000
MLD groups	512	512
ACL (Ingress/Egress)	1792/512	1792/512
VRF	4095	4095
Environment		
Operating Temperature	23°F to 122°F (–5°C to 50°C)	23°F to 122°F (–5°C to 50°C)

Technical Specifications

Operating Relative Humidity	5% to 95%, noncondensing	5% to 95%, noncondensing
Non-operating Temperature	–40°F to 158°F (–40°C to 70°C)	–40°F to 158°F (–40°C to 70°C)
Non-operating storage humidity	5% to 95%, noncondensing	5% to 95%, noncondensing
Acoustic (ISO7779)	27.2dB/58.7dB	27.2dB/58.7dB
Electric Characteristics		
Max Heat Dissipation	Ranges from 48 BTU/hr to 209 BTU/hr depending on power supply configuration	Ranges from 58 BTU/hr to 229 BTU/hr depending on power supply configuration
Power Rating	AC: 90V to 264V DC: -36V to -72V	AC: 90V to 264V DC: -36V to -72V
Power Consumption	Idle: Single AC: 14W Dual AC: 16W Single DC:18W Dual DC: 25W Full Load: Single AC: 53W Dual AC: 56W Single DC: 54W Dual DC: 61W	Idle: Single AC: 17W Dual AC: 19W Single DC: 21W Dual DC: 28W Full Load: Single AC: 62W Dual AC: 63W Single DC: 61W Dual DC: 67W
PoE Power	-	-
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; IEC 62368-1; CAN/CSA-C22.2 No. 60950-1; EN 62368-1/A11; FDA 21 CFR Subchapter J; 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; IEC 62368-1; CAN/CSA-C22.2 No. 60950-1; EN 62368-1/A11; FDA 21 CFR Subchapter J; RoHS Compliance
Emissions	EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; EN 61000-4-11:2004; ANSI C63.4-2009; EN 61000-3-3:2008; VCCI V-3/2012.04; 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; 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	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-3/2012.04; 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; CISPR 22:2008 Class A; EN 55022:2010 Class A; EN 61000-4-29: 2000; CISPR 24:2010; EN 300 386 V1.6.1; VCCI V-3/2013.04 Class A
Immunity	EN 55024 EN 300 386	EN 55024 EN 300 386
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)

Technical Specifications

Management	IMC - Intelligent Management Center; Command-line interface; SNMP manager; SmartMC GUI	IMC - Intelligent Management Center; Command-line interface; SNMP manager; SmartMC GUI
Warranty	Limited lifetime warranty. See the warranty duration guide	Limited lifetime warranty. See the warranty duration guide
Services	See the HPE website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, contact your local HPE sales office.	See the HPE website at http://www.hpe.com/networking/servicesfor details on the service-level descriptions and product numbers. For details about services and response times in your area, contact your local HPE sales office.

Summary of Changes

Date	Version History	Action	Description of Change
19-Oct-2026	Version 4	Changed	Survey link text was updated.
05-Jan-2026	Version 3	Changed	Configuration Information section was updated.
28-Jul-2025	Version 2	Changed	Update survey link.
02-Jun-2025	Version 1	New	New QuickSpecs

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

To learn more, visit: http://www.hpe.com/networking

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