QuickSpecs

Overview

HPE Networking Comware Switch Series 5520 HI

The HPE Networking Comware Switch Series 5520 HI delivers superior performance, high availability, and simplified manageability by leveraging advanced features at the access and aggregation layer of medium and large enterprise networks.

These switches deliver faster performance and advanced L3 features with support for larger ARP/MAC tables and Longest Prefix Match (LPM). VXLAN and EVPN enable multitenant isolation and greater scalability; high availability and resiliency provided by Distributed Resilient Network Interconnect (DRNI), Intelligent Resilient Framework (IRF), Virtual Router Redundancy Protocol (VRRP), Equal-Cost Multipath (ECMP) and Bi-directional Forwarding Detection (BFD). Real-time network health, network and switch performance and visibility provided with Intelligent Management Center (IMC) and Intelligent Network Quality Analyzer (iNQA). Support for IPv4/IPv6, OpenFlow, and MPLS/VPLS features provides investment protection and eases transition from IPv4 to IPv6 networks.



HPE Networking Comware Switch Series 5520 HI

Key Features

- Advanced features such as larger MAC tables, Longest Prefix Match (LPM) and increased processing enable faster switching.
- 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 real-time application performance and health.
- Advanced L3 features such as Virtual Extensible LAN (VXLAN) and Ethernet VPN (EVPN) allow greater flexibility to
 integrate into existing networks, better scalability without redesigning the underlay network, enhanced security to restrict
 attacks, and improved performance specially in spine-leaf architectures.

Overview

- Scalable with 10 Gigabit uplinks and 9-chassis IRF with up to 160 GB/s stacking bandwidth
- 4 convenient built-in SFP+ 10GbE uplinks provide performance for bandwidth hungry applications
- PoE+ for up to 30 Watts of PoE power per port on all ports simultaneously
- MACsec support
- New made in USA TAA SKUs introduced for customers who have concerns with 'made in China' products. These SKUs are
 provide additional security as a combination of manual and automated source code analysis is performed to identify
 common programming issues and address any security weaknesses.

Overview

Models

HPE Networking Comware Switch 24p 10/100/1000BASE-T 4p SFP+ 1 Exp 2 PS Slot 5520HI	R8M25A
HPE Networking Comware Switch 48G 10/100/1000BASE-T 4 10G/1G BASE-X 5520HI	R8M26A
HPE Networking Comware Switch 24 SFP 4 10G/1G BASE-X SFP+ 1 Exp slot 2 Fan Tray 2 PS 5520HI	R8M27A
HPE Networking Comware Switch 24 10/100/1000BASE-T 4 10G/1G BASE-X SFP+ 1 Exp 2 Fan Tray 2 PS 5520HI	R8M28A
HPE Networking Comware Switch 48 10/100/1000BASE-T 4 10G/1G BASE-X SFP+ 1 Exp 2 Fan Tray 2 PS 5520HI	R8M29A

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)

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 or per-VLAN basis

VXLAN hardware support

VXLAN L2/L3 gateway support for up to 1024 unicast tunnels with 511 VXLAN/per tunnel.

EVPN support

Used as overlay control plane and provides virtual connectivity between different Layer 2/3 domains over an IP or MPLS network

• Powerful QoS feature

Creates traffic classes based on access control lists (ACLs), IEEE 802.1p precedence, IP, and 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), weighted random early discard (WRED), weighted deficit round robin (WDRR), SP+WDRR, and SP+WFQ

Supports IPv6 and fully featured L3 functionality, including RIP, OSPF, ISIS, BGP, and PIM without additional software licensing.

Storm restraint and Broadcast control

Allows limitations of broadcast, multicast, and unknown unicast traffic rate to reduce unwanted network broadcast traffic

Management

Friendly port names

Allows assignment of descriptive names to ports

sFlow

Provides scalable ASIC-based wirespeed network monitoring and accounting with no impact on network performance that allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring

• Complete session logging

Provides detailed information for problem identification and resolution

• Remote configuration and management

Enables configuration and management through a CLI located on a remote device

Manager and operator privilege levels

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

Management VLAN

Segments traffic to and from management interfaces, including CLI/Telnet and SNMP

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

Remote monitoring (RMON)

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

• Multiple configuration files

Stores easily to the flash image

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

Network Management

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

• IPv6 management

Provides future-proof networking as 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.

Connectivity

Auto-MDIX

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

• Packet storm protection

Protects against broadcast, multicast, or unicast storms with user-defined thresholds

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

Flow control

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

Fixed 10GbE ports

Provides four fixed SFP+ ports for a 20 GbE connection to the network without the need for additional extension interface modules

• Jumbo packet support

Supports up to 10000-byte frame size to improve the performance of large data transfers

• 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

Performance

Supports Equal-Cost Multipath

Enables multiple equal-cost links in a routing environment to increase link redundancy and scale bandwidth.

• 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

Intelligent Network Quality Analyser (iNQA)

Helps in Advanced packet loss and delay measurement, measures network packet loss performance, forward, reverse, and two-way packet loss, including lost Number of messages and bytes, message loss and byte loss rate

• Nonblocking architecture

Delivers up to 336 Gb/s of wire-speed switching with a nonblocking switching fabric and up to 180 million pps throughput

Virtual Private Network (VPN)

Generic Routing Encapsulation (GRE)

Transports Layer 2 connectivity over a Layer 3 path in a secured way; enables the segregation of traffic from site to site

Resiliency and High Availability

Separate data and control paths

Separate control from services and keeps service processing isolated; increases security and performance

Distributed Resilient Network Interconnection (DRNI)

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

• Intelligent Resilient Fabric (IRF)

Creates virtual resilient switching fabrics, where upto 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

• Rapid Ring Protection Protocol (RRPP)

Connects multiple switches in a high-performance ring using standard Ethernet technology; traffic can be rerouted around the ring in less than 50 ms, reducing the impact on traffic and applications

Smart Link

Allows under 100ms failover between links

Virtual Router Redundancy Protocol (VRRP)

Allows groups of two routers to dynamically back each other up to create highly available routed environments

IRF Capability

Provides single IP address management for a resilient virtual switching fabric of up to nine switches with stacking bandwidth of up to 160 Gbps to enhance performance and reliability with uninterrupted L2 switching and L3 forwarding, It delivers simpler, flatter, and more agile networks by reducing the need for complex protocols.

Spanning Tree/PVST+, MSTP, RSTP

Provides redundant links while preventing network loops

• 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

Troubleshooting

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

• 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, SSH2 v6 and SFTP v6

Layer 2 Switching

IP multicast snooping and data-driven IGMP

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

• 32K MAC addresses

Provide access to many Layer 2 devices

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

• Spanning Tree/MSTP, RSTP, and STP root guard

Prevent network loops

• 64 MSTP instances

Allow multiple configurations of STP per VLAN group

Isolation at data link layer with private VLANs

Provides, through a two-tier VLAN structure, an additional layer of protection, simplifying network configuration while saving VLAN resources

• VLAN support and tagging

Supports the IEEE 802.1Q (4K VLAN IDs)

Layer 3 Services

• Longest Prefix Match (LPM)

Helps in enabling and scaling multipathing, larger switch route forwarding table, faster destination resolution

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 the IPv4 address management

Layer 3 Routing

IPv4 routing protocols

Support static routes, RIP, OSPF, ISIS, and BGP

IPv6 routing protocols

Provide routing of IPv6 at wire speed; support static routes, RIPng, OSPFv3, IS-ISv6, and BGP4+ for IPv6

• PIM-SSM, PIM-DM, and PIM-SM (for IPv4 and IPv6)

Support IP Multicast address management and inhibition of DoS attacks

MPLS support

Provides extended support of MPLS, including MPLS VPNs and MPLS Traffic Engineering (MPLS TE)

Virtual Private LAN Service (VPLS)

Establishes point-to-multipoint Layer 2 VPNs across a provider network

• Bidirectional Forwarding Detection (BFD)

Enables link connectivity monitoring and reduces network convergence time for RIP, OSPF, BGP, IS-IS, VRRP, MPLS, and IRF

Policy-based routing

Makes routing decisions based on policies set by the network administrator

• Equal-Cost Multipath (ECMP)

Enables multiple equal-cost links in a routing environment to increase link redundancy and scale bandwidth

IPv6 tunneling

Allows a smooth transition from IPv4 to IPv6 by encapsulating IPv6 traffic over an existing IPv4 infrastructure

Security

Access control lists (ACLs)

Provide IP Layer 2 to Layer 4 traffic filtering; support global ACL, 4K VLAN ACL table size, port ACL, and IPv6 ACL; up to 2K ingress ACLs and 512 egress ACLs are supported

IEEE 802.1X

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

• MACsec encryption

- Secures connected devices by establishing bi-directional encrypted links after an exchange and verification of security keys. Increased demand for PoE connected devices and a dramatic growth in sophistication and frequency of cyber security threats makes this feature highly relevant
- Supports IPSec VPN for secure communications at the network layer

MAC-based authentication

Client is authenticated with the RADIUS server based on the client's MAC address

• Identity-driven security and access control

Per-user ACLs

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

Automatic VLAN assignment

Automatically assigns users to the appropriate VLAN based on their identities

Port security

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

• 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

• STP BPDU port protection

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

DHCP protection

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

DHCP snooping

Helps ensure that DHCP clients receive IP addresses from authorized DHCP servers and maintain a list of DHCP entries for trusted ports; prevents reception of fake IP addresses and reduces ARP attacks, improving security

DHCPv6 snooping

Ensures that DHCPv6 clients obtain IPv6 addresses from authorized DHCPv6 servers and record IP-to-MAC mappings of DHCPv6 clients

• Dynamic ARP protection

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

STP root guard

Protects the root bridge from malicious attacks or configuration mistakes

Guest VLAN

Provides a browser-based environment to authenticated clients similar to IEEE 802.1X

Port isolation

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

• 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

Simplified and Secure Management

Management access is provided via CLI, SNMP, Netconf, Yang and RestAPIs

Unicast Reverse Path Forwarding (URPF)

Allows normal packets to be forwarded correctly, but discards the attaching packet due to lack of reverse path route or incorrect inbound interface; prevents source spoofing and distributed attacks; supports distributed URPF

• IP source guard

Helps prevent IP spoofing attacks

• IPv6 source guard

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

ND Snooping

Allows only packets with a legally obtained IPv6 address to pass

Convergence

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

Internet Group Management Protocol (IGMP)

Utilizes Any-Source Multicast (ASM) or Source-Specific Multicast (SSM) to manage IPv4 multicast networks; supports IGMPv1, v2, and v3

• IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

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

Multicast Source Discovery Protocol (MSDP)

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

Multicast VLAN

Allows multiple VLANs to receive the same IPv4 or IPv6 multicast traffic, lessening network bandwidth demand by reducing or eliminating multiple streams to each VLAN

Link Layer Discovery Protocol (LLDP)

It is vendor-neutral and enables the use of heterogenous network devices by advertising their identity, capabilities, and neighbors on a local area network based on IEEE 802 technology

• 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

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

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

BTO Models

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Rule# **Description** SKU HPE Networking Comware Switch 24p 10/100/1000BASE-T 4p SFP+ 1 Exp 2 PS Slot 5520HI R8M25A (16) 10/100/1000BASE-T RJ-45 ports (8) SFP dual-personality ports 10/100/1000BASE-T RJ-45 or 100/1000BASE-X Combo Ports Duplex: Ports 1-24 support 10BASE-T/100BASE-TX, 1000BASE-T (full only) 4 SFP+ 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR) 1 port expansion module slot 1U - Height 2 HPE Networking Comware Switch 48G 10/100/1000BASE-T 4 10G/1G BASE-X 5520HI R8M26A 48 RJ-45 autosensing 10/100/1000 BASE-T RJ-45 ports Duplex: ports 1-48 support 10BASE-T/100BASE-TX, 1000BASE-T (full only); 4 SFP+ 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR) 1 port expansion module slot 1U - Height 1, 2 HPE Networking Comware Switch 24 SFP 4 10G/1G BASE-X SFP+ 1 Exp slot 2 Fan Tray 2 PS 5520HI R8M27A (16) SFP 100/1000 Mbps ports (min=0 \ max=16 SFP XCVR) (8) SFP dual-personality ports - 10/100/1000 BASE-T RJ-45 or 100/1000BASE-X Combo Ports (4) fixed 1000/10000 SFP+ ports 4 SFP+ 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR) 1 port expansion module slot 1U - Height 2 HPE Networking Comware Switch 24 10/100/1000BASE-T 4 10G/1G BASE-X SFP+ 1 Exp 2 Fan Tray R8M28A 2 PS 5520HI 24 RJ-45 autosensing 10/100/1000 BASE-T PoE+ ports; Duplex: ports 1-24 support 10BASE-T/100BASE-TX (half or full), 1000BASE-T (full only); 4 SFP+ 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR) 1 port expansion module slot 1U - Height 2 HPE Networking Comware Switch 48 10/100/1000BASE-T 4 10G/1G BASE-X SFP+ 1 Exp 2 Fan Tray R8M29A 2 PS 5520HI 48 RJ-45 autosensing 10/100/1000 BASE-T PoE+ ports Duplex: ports 1-48 support 10BASE-T/100BASE-TX (half or full), 1000BASE-T (full only); 4 SFP+ 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR) 1 port expansion module slot 1U - Height **TAA Switch Chassis** HPE Networking Comware Switch 24p 10/100/1000BASE-T 4p SFP+ 1G/10G 1-slot 2xFan 2xPSU S3K91A 2, 4 TAA 5520HI

- (16) 10/100/1000BASE-T RJ-45 ports (TAA Certified)
- (8) SFP dual-personality ports 10/100/1000BASE-T RJ-45 or 100/1000BASE-X Combo Ports
- Duplex: Ports 1-24 support 10BASE-T/100BASE-TX, 1000BASE-T (full only)
- 4 SFP+ 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR)
- 1 port expansion module slot
- 1U Height

Page 10

TAA 5520HI 48 RJ-48 autosensing 10/100/1000 BASE-T RJ-45 ports (TAA Certified) Duplex: ports 1-48 support 10BASE-T/100BASE-TX, 1000BASE-T (full only); 1 port expansion module slot 1 port expansion module slot (4) SFP 100/1000 Mbps ports (min=0 \ max=4 SFP/SFP+ XCVR) (5) SFP 100/1000 Mbps ports (min=0 \ max=16 SFP XCVR) (TAA Certified) (6) SFP 100/1000 Mbps ports (min=0 \ max=16 SFP XCVR) (TAA Certified) (6) SFP 100/1000 Mbps ports (min=0 \ max=16 SFP XCVR) (TAA Certified) (6) SFP 100/1000 Mbps ports (min=0 \ max=16 SFP XCVR) (TAA Certified) (6) SFP 100/1000 Mbps ports (min=0 \ max=4 SFP/SFP+ XCVR) (14) SFP 1106DE ports (min=0 \ max=4 SFP/SFP+ XCVR) 1 port expansion module slot 1 U- Height Configuration Rules Rule # December 1 Province		HPE Networking Comware Switch 48p 10/100/1000BASE-T 4p SFP+ 1G/10G 1-slot 2xFan 2xPSU	S3K92A
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1. 1. 4. Height HPE Networking Comware Switch 24p SFP 1G 4p SFP+ 1G/10G 1-slot 2xFan 2xPSU TAA 5520HI		 4 SFP+ 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR) 	
1. 1. 4. Height HPE Networking Comware Switch 24p SFP 1G 4p SFP+ 1G/10G 1-slot 2xFan 2xPSU TAA 5520HI		1 port expansion module slot	
• (16) SFP 100/1000 Mbps ports - 10/100/1000 BASE-T RJ-45 or 100/1000BASE-X Combo Ports • (4) fixed 1000/10000 SFP+ ports • (4) fixed 1000/10000 SFP+ ports • 4 SFPP 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR) • 1 port expansion module slot • 1U - Height Configuration Rules Bescription 1 The following Transceivers install into this Switch: (SFP Ports) HPE Networking X115 100M SFP LC RX Transceiver HPE Networking X115 100M SFP LC RX Transceiver HPE Networking X115 100M SFP LC BX 10-U Transceiver HPE Networking X115 100M SFP LC BX 10-U Transceiver HPE Networking X115 100M SFP LC BX 10-U Transceiver HPE Networking X115 100M SFP LC BX 10-U Transceiver JD103A HPE Networking X120 10 SFP RJ45 T Transceiver JD103B HPE Networking X120 10 SFP RJ45 T Transceiver JD103B HPE Networking X120 10 SFP RJ45 T Transceiver JD103B HPE Networking X120 10 SFP RJ45 T Transceiver JD103B HPE Networking X120 10 SFP RJ45 T Transceiver JD103B HPE Networking X120 10 SFP RJ45 T Transceiver JD118B HPE Networking X120 10 SFP LC BX 10-U Transceiver JD118B HPE Networking X120 10 SFP LC BX 10-U Transceiver JD118B HPE Networking X120 10 SFP LC BX 10-U Transceiver JD119B HPE Networking X120 10 SFP LC BX 10-U Transceiver JD119B HPE Networking X120 10 SFP LC BX 10-U Transceiver JD119B HPE Networking X120 10 SFP LC BX 10-U Transceiver JD119B HPE Networking X120 10 SFP LC BX 10-U Transceiver JD119B HPE Networking X120 10 SFP LC BX 10-U Transceiver JD119B HPE Networking X120 10 SFP LC BX 10-U Transceiver JD119B HPE Networking X130 10 SFP LC BX 10-U Transceiver JD119B HPE Networking X130 10 SFP LC BX 10-U Transceiver JD119B HPE Networking X130 10 SFP LC BX 10-U Transceiver JD119B HPE Networking X130 10 SFP LC BX 10-U Transceiver JD119B HPE Networking X130 10 SFP LC BX 10-U Transceiver JD13A HPE Networking X130 10 SFP LC BX 10-U Transceiver JD13A HPE Networking X130 10 SFP LC BX 10-U Transceiver JD23A HPE Networking X130 10 SFP LC BX 10-U Transceiver JD23A HPE Networking X130 10 SFP LC BX 10-U Transceiver JD23A HPE Networking X130 10 SFP LC BX 10-U Tr			
(8) SFP dual-personality ports - 10/100/1000 BASE-T RJ-45 or 100/1000BASE-X Combo Ports (4) fixed 1000/10000 SFP+ ports 4 SFP+ 1/1006b ports (min=0 \ max=4 SFP/SFP+ XCVR) 1 port expansion module slot 1 10 - Height Configuration Rules Rule # Description The following Transceivers install into this Switch: (SFP Ports) HPE Networking X115 100M SFP LC FX Transceiver HPE Networking X115 100M SFP LC EX Transceiver HPE Networking X115 100M SFP LC EX 10-D Transceiver HPE Networking X115 100M SFP LC EX 10-D Transceiver HPE Networking X115 100M SFP LC EX 10-D Transceiver JD100A HPE Networking X115 100M SFP LC EX 10-D Transceiver JD100BRP HPE Networking X120 1G SFP R145 T Transceiver JD103A HPE Networking X120 1G SFP LC LH100 Transceiver JD103A HPE Networking X120 1G SFP LC LH100 Transceiver JD103A HPE Networking X120 1G SFP LC ST Transceiver JD103BRP HPE Networking X120 1G SFP LC ST Transceiver JD104B HPE Networking X120 1G SFP LC ST Transceiver JD104B HPE Networking X120 1G SFP LC BX 10-D Transceiver JD104B HPE Networking X120 1G SFP LC LH100 Transceiver JD104B HPE Networking X120 1G SFP LC LX 10-D Transceiver JD105B HPE Networking X120 1G SFP LC LX 10-D Transceiver JD105B HPE Networking X120 1G SFP LC LX 10-D Transceiver JD105B HPE Networking X120 1G SFP LC LX 10-D Transceiver JD105B HPE Networking X130 10G SFP+ LC LX 10-D Transceiver JD105B HPE Networking X130 10G SFP+ LC RX 10-D Transceiver JD105B HPE Networking X130 10G SFP+ LC BX 10-D Transceiver JD105B HPE Networking X130 10G SFP+ LC BX 10-D Transceiver JD105B HPE Networking X130 10G SFP+ LC BX 10-D Transceiver JD105B HPE Networking X130 10G SFP+ LC BX 10-D Transceiver JD105B HPE Networking X130 10G SFP+ LC BX 10-D Transceiver JD105B HPE Networking X130 10G SFP+ LC BX 10-D Transceiver JD105B HPE Networking X130 10G SFP+ LC BX 10-D Transceiver JD105B HPE Networking X130 10G SFP+ LC BX 10-D Transceiver JD105B HPE Networking X130 10G SFP+ LC BX 10-D Transceiver JD105B HPE Networking X130 10G SFP+ LC BX 10-D Transceiver JD105B HPE Networking X1	1, 2, 4	HPE Networking Comware Switch 24p SFP 1G 4p SFP+ 1G/10G 1-slot 2xFan 2xPSU TAA 5520HI	S3K93A
Ports • (4) fixed 1000/10000 SFP+ ports • (4) Fixed 1000/10000 SFP+ ports • (4) Fixed 1000/10000 SFP+ ports • (4) Fixed 1000/10000 SFP+ ports • 1 port expansion module slot • 1U - Height Configuration Rules Description 1 The following Transceivers install into this Switch: (SFP Ports) HPE Networking X115 100M SFP LC FX Transceiver HPE Networking X115 100M SFP LC EX Transceiver HPE Networking X115 100M SFP LC EX Transceiver HPE Networking X115 100M SFP LC EX Transceiver HPE Networking X115 100M SFP LC BX 10-D Transceiver JD101A HPE Networking X120 1G SFP LC BX 10-D Transceiver JD103A The following Transceivers install into this Switch: (SFP + Ports) HPE Networking X120 1G SFP LC BX 10-D Transceiver JD103A The following Transceivers install into this Switch: (SFP + Ports) HPE Networking X120 1G SFP LC SX 10-D Transceiver JD118B HPE Networking X120 1G SFP LC BX 10-D Transceiver JD19B HPE Networking X120 1G SFP LC BX 10-D Transceiver JD19B HPE Networking X120 1G SFP LC BX 10-D Transceiver JD09B HPE Networking X120 1G SFP LC BX 10-D Transceiver JD09B HPE Networking X120 1G SFP LC BX 10-D Transceiver JD09B HPE Networking X130 10G SFP+ LC SR Transceiver JD09B HPE Networking X130 10G SFP+ LC SR Transceiver JD09B HPE Networking X130 10G SFP+ LC BID 10-Morn-Downlink Transceiver JD09B HPE Networking X130 10G SFP+ LC BID 10-Morn-Downlink Transceiver JC33AA HPE Networking X130 10G SFP+ LC BID 10-Morn-Downlink Transceiver JC33AA HPE Networking X130 10G SFP+ LC BID 10-Morn-Downlink Transceiver JC33AA HPE Networking X130 10G SFP+ LC BID 10-Morn-Downlink Transceiver JC33AA HPE Networking X130 10G SFP+ LC BID 10-Morn-Downlink Transceiver JC33AA HPE Networking X130 10G SFP+ LC BID 10-Morn-Downlink Transceiver JC33AA HPE Networking X130 10G SFP+ LC BID 10-Morn-Downlink Transceiver JC33AA HPE Networking X130 10G SFP+ LC BID 10-Morn-Downlink Transceiver JC33AA HPE Networking X130 10G SFP+ LC BID 10-Morn-Downlink Transceiver JC33AA HPE Networking X130 10G SFP+ LC BID 10-Morn-Downlink Transceiver JC33AA HPE Networking X130 10G			
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HPE Networking X120 1G SFP LC LH100 Transceiver The following Transceivers install into this Switch: (SFP+ Ports) HPE Networking X120 1G SFP J45 T Transceiver HPE Networking X120 1G SFP J45 T Transceiver JD118B HPE Networking X120 1G SFP LC SX Transceiver JD118B HPE Networking X120 1G SFP LC SX Transceiver JD119B HPE Networking X120 1G SFP LC BX 10-U Transceiver HPE Networking X120 1G SFP LC BX 10-U Transceiver JD099B HPE Networking X120 1G SFP LC BX 10-D Transceiver JD099B HPE Networking X120 1G SFP LC SR Transceiver JD092B HPE Networking X130 1G SFP LC LH100 Transceiver JD092B HPE Networking X130 10G SFP+ LC SR Transceiver JD094B HPE Networking X130 10G SFP+ LC BID 40km-Downlink Transceiver JD094B HPE Networking X130 10G SFP+ LC BID 40km-Downlink Transceiver JD234A HPE Networking X130 10G SFP+ LC BID 40km-Uplink Transceiver JD234A HPE Networking X130 10G SFP+ LC BID 10km-Uplink Transceiver JD234A HPE Networking X130 10G SFP+ LC BID 10km-Uplink Transceiver JD2354A HPE Networking X130 10G SFP+ LC BID 10km-Uplink Transceiver JD2354A HPE Networking X130 10G SFP+ LC BID 10km-Uplink Transceiver JD2354A HPE Networking X130 10G SFP+ LC BID 10km-Uplink Transceiver JD2354A HPE Networking X130 10G SFP+ LC BID 10km-Downlink Transceiver JD2354A HPE Networking X240 10G SFP+ SFP+ DAC Cable JD095C HPE Networking X240 10G SFP+ SFP+ 12m DAC Cable JD095C HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X240 10G SFP+ to SFP+ 10m Active Optical Cable HPE Networking X240 10G SFP+ to SFP+ 10m Active Optical Cable HPE Networking X240 10G SFP+ to SFP+ 20m Active Optical Cable HPE Networking X240 10G SFP+ to SFP+ 20m Active Optical Cable HPE Networking X240 10G SFP+ to SFP+ 20m Active Optical Cable HPE Networking X240 10G SFP+ to SFP+ 20m Active Optical Cable HPE Networking X240 10G SFP+ to SFP+ 20m Active Optical Cable HPE Networking X240 10G SFP+ to SFP+ 20m Active Optical Cable			
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HPE Networking X120 1G SFP LC LH100 Transceiver JD103A 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 40km-Downlink Transceiver JD094B HPE Networking X130 10G SFP+ LC BiDi 40km-Downlink Transceiver JD234A HPE Networking X130 10G SFP+ LC BiDi 40km-Uplink Transceiver JD234A HPE Networking X130 10G SFP+ LC BiDi 40km-Uplink Transceiver JD234A HPE Networking X130 10G SFP+ LC BiDi 10km-Uplink Transceiver JD235A HPE Networking X130 10G SFP+ LC BiDi 10km-Uplink Transceiver JD235A HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver JD235A HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver JD235A HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable JD095C HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable JD095C HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable JD097C HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable JD097C HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable JD097C HPE Networking X240 10G SFP+ to SFP+ 7m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable JD291A HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >			JD099B
HPE Networking X130 10G SFP+ LC SR Transceiver HPE Networking X130 10G SFP+ LC LR Transceiver HPE Networking X130 10G SFP+ LC BiDi 40km-Downlink Transceiver HPE Networking X130 10G SFP+ LC BiDi 40km-Downlink Transceiver HPE Networking X130 10G SFP+ LC ER 40km Transceiver HPE Networking X130 10G SFP+ LC BiDi 40km-Uplink Transceiver HPE Networking X130 10G SFP+ LC BiDi 40km-Uplink Transceiver HPE Networking X130 10G SFP+ LC BiDi 10km-Uplink Transceiver HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X240 10G SFP+ SFP+ 10m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >			
HPE Networking X130 10G SFP+ LC LR Transceiver HPE Networking X130 10G SFP+ LC BiDi 40km-Downlink Transceiver HPE Networking X130 10G SFP+ LC ER 40km Transceiver HPE Networking X130 10G SFP+ LC BiDi 40km-Uplink Transceiver HPE Networking X130 10G SFP+ LC BiDi 40km-Uplink Transceiver HPE Networking X130 10G SFP+ LC BiDi 10km-Uplink Transceiver HPE Networking X130 10G SFP+ LC BiDi 10km-Uplink Transceiver HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver HPE Networking X130 10G SFP+ SFP+ 0.65m DAC Cable HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X240 10G SFP+ to SFP+ 7m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >			JD092B
HPE Networking X130 10G SFP+ LC ER 40km Transceiver HPE Networking X130 10G SFP+ LC BiDi 40km-Uplink Transceiver HPE Networking X130 10G SFP+ LC LH 80km Transceiver HPE Networking X130 10G SFP+ LC BiDi 10km-Uplink Transceiver HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X240 10G SFP+ to SFP+ 7m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable 4 TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >		HPE Networking X130 10G SFP+ LC LR Transceiver	JD094B
HPE Networking X130 10G SFP+ LC BiDi 40km-Uplink Transceiver HPE Networking X130 10G SFP+ LC LH 80km Transceiver JG915A 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+ 0.65m DAC Cable HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable JD095C HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable JD097C HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable JF081C HPE Networking X240 10G SFP+ to SFP+ 7m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable JL290A HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable JL291A HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >		HPE Networking X130 10G SFP+ LC BiDi 40km-Downlink Transceiver	JL740A
HPE Networking X130 10G SFP+ LC BiDi 40km-Uplink Transceiver HPE Networking X130 10G SFP+ LC LH 80km Transceiver JG915A 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+ 0.65m DAC Cable HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable JD095C HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable JD097C HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable JF081C HPE Networking X240 10G SFP+ to SFP+ 7m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable JL290A HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable JL291A HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >		HPE Networking X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE Networking X130 10G SFP+ LC BiDi 10km-Uplink Transceiver HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X240 10G SFP+ to SFP+ 7m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 7m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable JL291A HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >			JL739A
HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X2A0 10G SFP+ to SFP+ 7m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >		HPE Networking X130 10G SFP+ LC LH 80km Transceiver	JG915A
HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X2A0 10G SFP+ to SFP+ 7m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable JL291A HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >		HPE Networking X130 10G SFP+ LC BiDi 10km-Uplink Transceiver	JL737A
HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X2A0 10G SFP+ to SFP+ 7m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable JL291A HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable JL292A TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >		HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver	JL738A
HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X2A0 10G SFP+ to SFP+ 7m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable JL291A HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable JL292A TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >		HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable	JD095C
HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable HPE Networking X2A0 10G SFP+ to SFP+ 7m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable JL291A HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable JL292A TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >		HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C
HPE Networking X2A0 10G SFP+ to SFP+ 7m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable JL291A HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable JL292A TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >			JD0970
HPE Networking X2AO 10G SFP+ to SFP+ 10m Active Optical Cable HPE Networking X2AO 10G SFP+ to SFP+ 20m Active Optical Cable JL292A TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >		HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable	JG081C
HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >		HPE Networking X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >		HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
software source code is analyzed to ensure security robustness in the United States by HPE employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >		· · · · · · · · · · · · · · · · · · ·	JL292A
employees with US citizenship. Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >	4		
Notes: OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware >		software source code is analyzed to ensure security robustness in the United States by HPE	
Campus > 5520 HI Switch Series	Notes:		
		Campus > 5520 HI Switch Series	

Rack Level Integration CTO Models

Switch Chassis

Rule # **Description** SKU 2, 3 HPE Networking Comware Switch 24p 10/100/1000BASE-T 4p SFP+ 1 Exp 2 PS Slot 5520HI R8M25A (16) 10/100/1000BASE-T RJ-45 ports (8) SFP dual-personality ports 10/100/1000BASE-T RJ-45 or 100/1000BASE-X Combo Ports Duplex: Ports 1-24 support 10BASE-T/100BASE-TX, 1000BASE-T (full only) 4 SFP+ 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR) 1 port expansion module slot 1U - Height 2.3 HPE Networking Comware Switch 48G 10/100/1000BASE-T 4 10G/1G BASE-X 5520HI R8M26A 48 RJ-45 autosensing 10/100/1000 BASE-T RJ-45 ports Duplex: ports 1-48 support 10BASE-T/100BASE-TX, 1000BASE-T (full only); 4 SFP+ 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR) 1 port expansion module slot 1U - Height 1, 2, 3 HPE Networking Comware Switch 24 SFP 4 10G/1G BASE-X SFP+ 1 Exp slot 2 Fan Tray 2 PS 5520HI R8M27A (16) SFP 100/1000 Mbps ports (min=0 \ max=16 SFP XCVR) (8) SFP dual-personality ports - 10/100/1000 BASE-T RJ-45 or 100/1000BASE-X Combo Ports • (4) fixed 1000/10000 SFP+ ports 4 SFP+ 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR) 1 port expansion module slot 1U - Height 2, 3 HPE Networking Comware Switch 24 10/100/1000BASE-T 4 10G/1G BASE-X SFP+ 1 Exp 2 Fan Tray R8M28A 2 PS 5520HI 24 RJ-45 autosensing 10/100/1000 BASE-T PoE+ ports; Duplex: ports 1-24 support 10BASE-T/100BASE-TX (half or full), 1000BASE-T (full only); 4 SFP+ 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR) • 1 port expansion module slot 1U - Height 2, 3 HPE Networking Comware Switch 48 10/100/1000BASE-T 4 10G/1G BASE-X SFP+ 1 Exp 2 Fan Tray R8M29A 2 PS 5520HI 48 RJ-45 autosensing 10/100/1000 BASE-T PoE+ ports Duplex: ports 1-48 support 10BASE-T/100BASE-TX (half or full), 1000BASE-T (full only); • 4 SFP+ 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR) • 1 port expansion module slot 1U - Height **TAA Switch Chassis** HPE Networking Comware Switch 24p 10/100/1000BASE-T 4p SFP+ 1G/10G 1-slot 2xFan 2xPSU S3K91A 2, 3, 4 TAA 5520HI (16) 10/100/1000BASE-T RJ-45 ports (TAA Certified)

- (8) SFP dual-personality ports 10/100/1000BASE-T RJ-45 or 100/1000BASE-X Combo Ports
- Duplex: Ports 1-24 support 10BASE-T/100BASE-TX, 1000BASE-T (full only)
- 4 SFP+ 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR)
- 1 port expansion module slot
- 1U Height

HPE Networking Comware Switch 48p 10/100/1000BASE-T 4p SFP+ 1G/10G 1-slot 2xFan 2xPSU TAA 5520HI

S3K92A

- 48 RJ-45 autosensing 10/100/1000 BASE-T RJ-45 ports (TAA Certified)
- Duplex: ports 1-48 support 10BASE-T/100BASE-TX, 1000BASE-T (full only);
- 4 SFP+ 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR)
- 1 port expansion module slot
- 1U Height

2.3.4

4

Configuration Information

1, 2, 3, 4	 HPE Networking Comware Switch 24p SFP 1G 4p SFP+ 1G/10G 1-slot 2xFan 2xPSU TAA 5520HI (16) SFP 100/1000 Mbps ports (min=0 \ max=16 SFP XCVR) (TAA Certified) 	S3K93A
	• (8) SFP dual-personality ports - 10/100/1000 BASE-T RJ-45 or 100/1000BASE-X Combo	
	Ports	
	• (4) fixed 1000/10000 SFP+ ports	
	• 4 SFP+ 1/10GbE ports (min=0 \ max=4 SFP/SFP+ XCVR)	
	1 port expansion module slot	
	• 1U - Height	
	Configuration Rules	
Rule#	Description	
1	The following Transceivers install into this Switch: (Use OD1 or B01 quoted to switch if switch is	
	CTO) - if applicable:	
	HPE Networking X115 100M SFP LC FX Transceiver	JD102E
	HPE Networking X110 100M SFP LC LX Transceiver	JD120E
	HPE Networking X115 100M SFP LC BX 10-U Transceiver	JD100A
	HPE Networking X115 100M SFP LC BX 10-D Transceiver	JD101A
	HPE Networking X120 1G SFP RJ45 T Transceiver	JD089E
	HPE Networking X120 1G SFP LC LH100 Transceiver	JD103A
2	The following Transceivers install into this Switch: (Use OD1 or B01 quoted to switch if switch is	
	CTO) - if applicable:	
	HPE Networking X120 1G SFP RJ45 T Transceiver	JD089E
	HPE Networking X120 1G SFP LC SX Transceiver	JD118E
	HPE Networking X120 1G SFP LC LX Transceiver	JD119E
	HPE Networking X120 1G SFP LC BX 10-U Transceiver	JD098E
	HPE Networking X120 1G SFP LC BX 10-D Transceiver	JD099E
	HPE Networking X120 1G SFP LC LH100 Transceiver	JD103A
	HPE Networking X130 10G SFP+ LC SR Transceiver	JD092E
	HPE Networking X130 10G SFP+ LC LR Transceiver	JD094E
	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 BiDi 10km-Uplink Transceiver	JL737A
	HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver	JL738A
	HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable	JD0950
	HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable	JD0960
	HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable	JD0970
	HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable	JG0810
	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
3	If HP CTO Switch Chassis is selected for Rack Level Integration, Then the Switch needs to integrate	
	(with #OD1) to the Rack.	

TAA compliance versions: Products are Made in Puerto Rico (territory of the United States). Product

software source code is analyzed to ensure security robustness in the United States by HPE

Notes: Standard Rails automatically included with Factory Integration

employees with US citizenship.

	Modules	
Rule #	Description	SKU
2	HPE Networking Comware Module 2-port 40G QSFP+ 5520HI/5600HI • min=0 \ max=2 QSFP+ Transceivers	JH155A
	HPE Networking Comware Module 2p 10GBASE-T MACsec 5140/5520 • No Transceivers	R9L65A
1	HPE Networking Comware Module 10GbE SFP+MACsec128 2p 5140HI/5520HI • min=0 \ max=2 SFP+ Transceivers	JH157A
1, 3	HPE Networking Comware Module 4-port 10/100/1000Base-T 6-port SFP (2P Combo) 5140HI/5520HI/5600HI	SOTO2A
	min=0 \ max=6 SFP Transcievers	
1	• or min=0 \ max=2 SFP+ Transceivers	COTO7.4
1	HPE Networking Comware Module 8 Port SFP+ 5520HI/5600HI	SOT03A
1, 3	• min=0 \ max=8 SFP+ Transcievers	SOT04A
1, 3	HPE Networking Comware Module 4-port 1/10G SFP+ 5140HI/5520HI/5600HI • min=0 \ max=4 SFP/SFP+ Transcievers	30104A
	HPE Networking Comware Module 8-port 1/2.5/5/10GBASE-T 5520HI/5600HI	SOT05A
	No Transceivers	30103A
4	HPE Networking Comware Module 2-port SFP28 5140HI/5520HI/5600HI	SOT06A
•	min=0 \ max=2 SFP28 Transcievers	301007
	Configuration Rules	
Rule #	Description	
1	The following Transceivers install into this Switch: (SFP+ Ports)	
-	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+ 0.65m DAC Cable	JD095C
	HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C
	HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable	JD097C
	HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable	JG081C
	HPE Networking X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
	HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A JL292A
2	HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable The following 40G Transceivers install into this Module: (Use #0D1 or #B01 if switch is CTO)	JLZ9ZA
_	HPE Networking X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
	HPE Networking X140 40G QSFP+ CSR4 300m Transceiver	JG709A
	HPE Networking X140 40G QSFP+ MPO SR4 Transceiver	JG325B
	HPE Networking X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
	HPE Networking X140 40G QSFP+ LC LR4L 2km SM Transceiver	JL286A
	HPE Networking Comware X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
	HPE Networking Comware X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
	HPE Networking Comware X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
	HPE Networking Comware X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
	HPE Networking Comware X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
	HPE Networking Comware X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
3	The following 100M Transceivers install into this Module: (Use #0D1 or #B01 if switch is CTO)	
	HPE Networking X115 100M SFP LC BX 10-D Transceiver	JD101A
	HPE Networking X115 100M SFP LC BX 10-U Transceiver	JD100A
	HPE Networking X115 100M SEP LC FX Transceiver	JD102B
	HPE Networking X110 100M SFP LC LX Transceiver	JD120B

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4 Notes:	The following 25G Transceivers install into this Module: (Use #0D1 or #B01 if switch is CTO) HPE Networking X190 25G SFP28 LC SR 100m MM Transceiver HPE Networking 25G SFP28 LC LR 10km SMF Transceiver HPE Networking X240 25G SFP28 to SFP28 1m DAC Cable HPE Networking X240 25G SFP28 to SFP28 3m DAC Cable HPE Networking X240 25G SFP28 to SFP28 5m DAC Cable HPE Networking X240 25G SFP28 to SFP28 3m Active Optical Cable HPE Networking X2A0 25G SFP28 to SFP28 5m Active Optical Cable HPE Networking X2A0 25G SFP28 to SFP28 5m Active Optical Cable MACsec supported on last 8 ports of Modules R9L65A-AES256 and JH157A-AES128.	JL293A JL855A JL294A JL295A JL296A JH955A JH956A
Transc	ceivers	
	FE Transceivers	
Rule#	Description	SKU
	HPE Networking X115 100M SFP LC BX 10-D Transceiver	JD101A
	HPE Networking X115 100M SFP LC BX 10-U Transceiver	JD100A
	HPE Networking X115 100M SFP LC FX Transceiver	JD102B
	HPE Networking X110 100M SFP LC LX Transceiver	JD120B
	SFP Transceivers	
Rule #	Description Add to SER RIVE T. T.	SKU
	HPE Networking X120 1G SFP RJ45 T Transceiver	JD089B
	HPE Networking X120 1G SFP LC SX Transceiver HPE Networking X120 1G SFP LC LX Transceiver	JD118B JD119B
	HPE Networking X120 1G SFP LC EX Transceiver HPE Networking X120 1G SFP LC BX 10-U Transceiver	JD114B JD098B
	HPE Networking X120 1G SFP LC BX 10-D Transceiver	JD099B
	HPE Networking X120 1G SFP LC LH100 Transceiver	JD103A
	SFP+ Transceivers	
Rule#	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 JL738A
	HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver SFP+ Transceiver Cables	JL/30A
Rule #	Description	SKU
Rule #	HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable	JD095C
	HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable	JD075C
	HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable	JD097C
	HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable	JG081C
	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	
	HPE Networking X190 25G SFP28 LC SR 100m MM Transceiver	JL293A
	HPE Networking 25G SFP28 LC LR 10km SMF Transceiver	JL855A

	SFP28 Transceiver Cables	
	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 X240 25G SFP28 to SFP28 3m Active Optical Cable	JH955A
	HPE Networking X2A0 25G SFP28 to SFP28 5m Active Optical Cable	JH956A
	QSFP+ Transceivers	JU4204
Rule#		CKII
Ruie #	Description UDE Notworking V1/0/00 OSER/ LCLR/ SM10km 1710nm Transactives	SKU
	HPE Networking X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
	HPE Networking X140 40G QSFP+ CSR4 300m Transceiver	JG709A
	HPE Networking X140 40G QSFP+ MPO SR4 Transceiver	JG325B
	HPE Networking X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
	HPE Networking X140 40G QSFP+ LC LR4L 2km SM Transceiver	JL286A
D. J. #	QSFP+ Transceiver Cables	CIVII
Rule#	Description	SKU
	HPE Networking Comware X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
	HPE Networking Comware X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
	HPE Networking Comware X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
	HPE Networking Comware X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
	HPE Networking Comware X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
	HPE Networking Comware X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
Interna	Power Supplies	
Rule #	Description	SKU
1	HPE X361 150W 48-60VDC to 12VDC Power Supply	JD366B
- 1, 3, 4, 5		JD362B
_, 0, 1, 0	• Includes 1 x c13, 910w	350025
	HPE X361 150W 100-240VAC to 12VDC Power Supply PDU NA, JP or TW	JD362B#B2B
	HPE X361 150W 100-240VAC to 12VDC Power Supply PDU ROW	JD362B#B2C
	HPE X361 150W 100-240VAC to 12VDC Power Supply United States 220 volt	JD362B#B2E
	HPE X361 150W 100-240VAC to 12VDC Power Supply	JD362B#AC3
2, 3, 4, 5	HPE Networking X362 720W 100-240VAC to 56VDC PoE Power Supply	JG544A
2, 3, 1, 3	• includes 1 x c13, 720w	3031171
	HPE Networking X362 720W 100-240VAC to 56VDC PoE Power Supply PDU	JG544A#B2B
	HPE Networking X362 720W 100-240VAC to 56VDC PoE Power Supply PDU	JG544A#B2C
	HPE Networking X362 720W 100-240VAC to 56VDC PoE Power Supply 220v	JG544A#B2E
2 3 4 5	HPE Networking X362 1110W 115-240VAC to 56VDC PoE Power Supply	JG545A
2, 3, 4, 3	• Includes 1 x c13, 1100w	30343/1
	HPE Networking X362 1110W 115-240VAC to 56VDC PoE Power Supply PDU	JG545A#B2B
	HPE Networking X362 1110W 115-240VAC to 56VDC PoE Power Supply PDU	JG545A#B2C
	HPE Networking X362 1110W 115-240VAC to 56VDC PoE Power Supply 220v	JG545A#B2E
	Configuration Rules	J0545/\#D2L
Rule #	Description	
1	This power supply is only supported on R8M25A, R8M26A, R8M27A, S3K91A, S3K92A, S3K93A	
2	This power supply is only supported on R8M28A and R8M29A,	
3	Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord). (See	
3	Localization Menu)	
	REMARK: When Switches/Routers are Factory Racked, Then #B2B, or #B2C should be the Defaulted	
<i>I</i> .	Power Cable option on the Switches/Routers.	
4	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) Unbuildable/FAN required, generates CEGU: If order is quoted for India and contains ""#R2C"" Option	
5	- Unditingable/FAIN required, deperates CEGU; it order is diloted for India and contains ""#R/C"" ()ofton	



then Display the following:

 For BTO shipments to India: Please replace <Base Model>#B2C option with <Base Model>#AC3 in the Bill of Materials and add the appropriate INDIA PDU Power Cord below via Ad-Hoc:

HPE Networking 2.0m C13 to C14 PDU India Power Cord	JL671A
HPE Networking 2.5m C15 to C14 PDU India Power Cord	JL672A
HPE Networking 2.5m C19 to C20 PDU India Power Cord	JL673A

HPE Networking Com	nware Switch 24p 10/10	0/1000BASE-T 4p SFP+ 1 Exp 2 PS Slot 5520HI (R8M25A)
I/O ports and slots	(16) 10/100/1000BASE-T RJ-45 ports (8) dual-personality ports - 10/100/1000BASE-T RJ-45 or 100/1000BASE-X Combo Ports Duplex: Ports 1-24 support 10BASE-T/100BASE-TX, 1000BASE-T (full only); Ports 17-24 support MACsec 4 SFP+ 1/10GbE ports 1 port expansion module slot	
Additional ports and	1 dual-personality (RJ-45 or r	nini USB) serial console port
slots	1 RJ-45 out-of-band manager	ment port
	1 USB 2.0	
Power supplies	2 power supply slots	
F 1	1 minimum power supply requ	·
Fan tray	Airflow direction is Side to Bac	
Physical characteristics	Dimensions	17.32(w) x 14.17(d) x 1.72(h) in (44.00 x 36.00 x 4.36 cm) (1U height)
	Weight	≤ 6.7 kg shipping weight
Memory and processor	2 GB SDRAM; Packet buffer si	ze: 4 MB, 512 MB flash
Mounting and enclosure	Mounts in an EIA standard 19	-inch telco rack or equipment cabinet (hardware included)
Performance	IPv6 Ready Certified	
	1000 Mb Latency	< 5 μs
	10 Gbps Latency	< 3 μs
	Throughput	up to 180 Mpps
	Routing/Switching capacity	288 Gbps
	Routing table size	32768 entries (IPv4), 16384 entries (IPv6)
	MAC address table size	up to 64K, recommended 32K
Environment	Operating temperature	23°F to 113°F (-5°C to 45°C)
	Operating relative humidity	5% to 95%, noncondensing
	Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating/Storage relative humidity	5% to 95%, noncondensing
	Acoustic	Low-speed fan: 53 dB, High-speed fan: 68.9 dB; ISO 7779
Electrical characteristics	Frequency	50/60 Hz
	Maximum heat dissipation	Ranges from 81 BTU/hr to 324 BTU/hr depending on power supply configuration
	Voltage	90 VAC to 264 VAC -36 VDC to -72 VDC
	Current	2A
	Maximum power rating	150W
	Idle power	24 W
	Notes:	
	 Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated 	
Safety	 DC maximum input current is 6A UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA 21 CFR Subchapter J; ROHS Compliance; AS/NZS 60950-1; GB 4943; EAC (EurAsian Conformity Certification) 	

Emissions	EMC Directive 2004/108/EC;	FCC (CFR 47, Part 15) Class A; EN 61000-4-11:2004; ANSI C63.4-2009;	
	EN 61000-3-3:2008; VCCI V-3/2012.04; EN 61000-3-2:2006+A1:2009+A2:2009; EN 61000-3:2006; EN 61000-4-4:2012; EN 61000-4-5:2006; EN 61000-4-6:2009; CISPR 22:2008 Class		
	55022:2010 Class A; EN 61000-4-29: 2000; CISPR 24:2010; EN 300 386 V1.6.1; VCCI V-3/		
	Class A		
Immunity	Generic	EN 55024	
	ESD	EN300 386	
Management	IMC - Intelligent Management	Center; Command-line interface; SNMP manager	
Services	details on the service-level des	Enterprise website at http://www.hpe.com/networking/services for scriptions and product numbers. For details about services and response act your local Hewlett Packard Enterprise sales office.	
HPE Networking Com	nware Switch 48G 10/100	0/1000BASE-T 4 10G/1G BASE-X 5520HI (R8M26A)	
I/O ports and slots	48 RJ-45 autosensing 10/100/1000 ports; Duplex: ports 1-48 support 10BASE-T/100BASE-TX, 1000BASE-T (full only) Ports 41-48 support MACsec 4 SFP+ 1/10GbE ports		
	1 port expansion module slot		
Additional ports and slots	1 dual-personality (RJ-45 or m		
SIOIS	1 RJ-45 out-of-band manager 1 USB 2.0	neni pori	
Power supplies	2 power supply slots		
Power supplies	1 minimum power supply required (ordered separately)		
Fan tray	Airflow direction is Side to Bac		
Physical characteristics	Dimensions	17.32(w) x 14.17(d) x 1.72(h) in (44.0 x 36.0 x 4.36 cm) (1U height)	
,	Weight	≤7 kg	
Memory and processor	2 GB SDRAM; Packet buffer size	ze: 4 MB, 512 MB flash	
	Mounts in an EIA standard 19	-inch telco rack or equipment cabinet (hardware included)	
Performance	IPv6 Ready Certified		
	1000 Mb Latency	< 5 μs	
	10 Gbps Latency	< 3 µs	
	Throughput	up to 180 Mpps	
	Routing/Switching capacity	336 Gbps	
	Routing table size	32768 entries (IPv4), 16384 entries (IPv6)	
	MAC address table size	up to 64K, recommended 32K	
Environment	Operating temperature	23°F to 113°F (-5°C to 45°C)	
	Operating relative humidity	5% to 95%, noncondensing	
	Non-operating/Storage	-40°F to 158°F (-40°C to 70°C)	
	temperature		
	Non-operating/Storage	5% to 95%, noncondensing	
	relative humidity		
	Acoustic	Low-speed fan: 49.2 dB, High-speed fan: 68.9 dB; ISO 7779	
Electrical characteristics		50/60 Hz	
	Maximum heat dissipation	Ranges from 81 BTU/hr to 327 BTU/hr depending on power supply configuration	
	Voltage	90 VAC to 264 VAC	
		-36 VDC to -72 VDC	
	Current	-36 VDC to -72 VDC 2A	
	-		



	Notes:		
	 Idle power is the actual p 	ower consumption of the device with no ports connected.	
	numbers provided for pla	nd maximum heat dissipation are the worst-case theoretical maximum inning the infrastructure with fully loaded PoE (if equipped), 100% n, and all modules populated	
	DC maximum input current is 6A		
Safety	UL 60950-1; EN 60825-1 Saf 2; IEC 60950-1; EN 60950-1;	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA 21 CFR Subchapter J; ROHS Compliance; AS/NZS 60950-1; GB 4943; EAC (EurAsian Conformity Certification)	
Emissions	EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; EN 61000-4-11:2004; ANSI C63.4-2009; EN 61000-3-3:2008; VCCI V-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	Generic	EN 55024	
-	ESD	EN300 386	
Management	IMC - Intelligent Management	Center; Command-line interface; SNMP manager	
Services	Refer to the Hewlett Packard E	Enterprise website at http://www.hpe.com/networking/services for	
		scriptions and product numbers. For details about services and response	
	times in your area, please cont	act your local Hewlett Packard Enterprise sales office.	
HPE Networking Con (R8M27A)	nware Switch 24 SFP 4 10	OG/1G BASE-X SFP+ 1 Exp slot 2 Fan Tray 2 PS 5520HI	
I/O ports and slots	(16) SFP 100/1000 Mbps ports (8) SFP dual-personality ports - 10/100/1000BASE-T RJ-45 or 100/1000BASE-X Combo Ports. Ports 17-24 support MACsec 4 SFP+ 1/10GbE ports 1 port expansion module slot		
Additional ports and	1 dual-personality (RJ-45 or mini USB) serial console port		
slots	1 RJ-45 out-of-band manager	ment port	
	1 USB 2.0		
Power supplies	2 power supply slots		
	1 minimum power supply requ		
Fan tray	Airflow direction is Side to Bac		
Physical characteristics	Dimensions	17.32(w) x 14.17(d) x 1.72(h) in (43.99 x 36 x 4.37 cm) (1U height)	
	Weight	≤6.6kg shipping weight	
Memory and processor	2 GB SDRAM; Packet buffer size		
Mounting and enclosure		-inch telco rack or equipment cabinet (hardware included)	
Performance	IPv6 Ready Certified		
	1000 Mb Latency	< 5 μs	
	10 Gbps Latency	< 3 μs	
	Throughput	up to 180 Mpps	
	Routing/Switching capacity	288 Gbps	
	Routing table size	32768 entries (IPv4), 16384 entries (IPv6)	
	MAC address table size	up to 64K, recommended 32K	
Environment	Operating temperature	23°F to 113°F (-5°C to 45°C)	
	Operating relative humidity	5% to 95%, noncondensing	
	Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	



	Non-operating/Storage relative humidity	5% to 95%, noncondensing
	Acoustic	Low-speed fan: 53 dB, High-speed fan: 68.9 dB; ISO 7779
Electrical characteristics	Frequency	50/60 Hz
	Maximum heat dissipation	Ranges from 81 BTU/hr to 416 BTU/hr depending on power supply configuration
	Voltage	90 VAC to 264 VAC -36 VDC to -72 VDC
	Current	2A
	Maximum power rating	150 W
	Idle power	24W
	Notes:	
	 Idle power is the actual 	power consumption of the device with no ports connected.
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA 21 CFR Subchapter J; ROHS Compliance; AS/NZS 60950-1; GB 4943; EAC (EurAsian Conformity Certification)	
Emissions	EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; EN 61000-4-11:2004; ANSI C63.4-2009; EN 61000-3-3:2008; VCCI V-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	Generic	EN 55024
	ESD	EN300 386
Management	IMC - Intelligent Managemen	t Center; Command-line interface; SNMP manager
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	
HPE Networking Con PS 5520HI (R8M28A)	nware Switch 24 10/100	/1000BASE-T 4 10G/1G BASE-X SFP+ 1 Exp 2 Fan Tray 2
I/O ports and slots	_	0/1000 BASE-T PoE+ ports; Duplex: Ports 1-24 support 10BASE-

T/100BASE-TX, 1000BASE-T (full only); Ports 17-24 support MACsec 4 SFP+ 10GbE ports 1 port expansion module slot Additional ports and 1 dual-personality (RJ-45 or mini USB) serial console port slots 1 RJ-45 out-of-band management port 1 USB 2.0 **Power supplies** 2 power supply slots 1 minimum power supply required (ordered separately) Airflow direction is Side to Back and Back to Side Fan tray Physical characteristics **Dimensions** 17.32(w) x 18.11(d) x 1.72(h) in (44 x 46 x 4.37 cm) (1U height) Weight ≤9.2kg 2 GB SDRAM; Packet buffer size: 4 MB, 512 MB flash Memory and processor Mounting and enclosure | Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included) Performance IPv6 Ready Certified 1000 Mb Latency < 5 **µ**s



	10 Gbps Latency	< 3 μs	
	Throughput	up to 180 Mpps	
	Routing/Switching capacity	·	
	Routing table size	32768 entries (IPv4), 16384 entries (IPv6)	
	MAC address table size	up to 64K, recommended 32K	
Environment	Operating temperature	23°F to 113°F (-5°C to 45°C)	
	Operating relative humidity		
	Non-operating/Storage	-40°F to 158°F (-40°C to 70°C)	
	temperature	401 10 1301 (40 € 10 70 €)	
	Non-operating/Storage relative humidity	5% to 95%, noncondensing	
	Acoustic	Low-speed fan: 57.2 dB, High-speed fan: 68.7 dB; ISO 7779	
Electrical characteristics	Frequency	50/60 Hz	
	Maximum heat dissipation	Ranges from 105 BTU/hr to 3166 BTU/hr depending on power supply configuration	
	Voltage	90 VAC to 264 VAC -36 VDC to -72 VDC 3A	
	Current		
	Maximum power rating	1110 W	
	Idle power	31 W 720 W PoE+	
	PoE+ power Notes:	720 W FOL I	
	 Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE+ power range is from 360W to 720W. 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. DC maximum Input Current is 6A. Voltage range for power modules- PSR360-56A: 6-3A, PSR720-56A:10-5A, PSR1110-56A: 12-6A 		
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA 21 CFR Subchapter J; ROHS Compliance; AS/NZS 60950-1; GB 4943; EAC (EurAsian Conformity Certification)		
Emissions	EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; EN 61000-4-11:2004; ANSI C63.4-2009; EN 61000-3-3:2008; VCCI V-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	Generic	EN 55024	
	ESD	EN300 386	
Management	IMC - Intelligent Management	Center; Command-line interface; SNMP manager	
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.		

HPE Networking Com PS 5520HI (R8M29A)	nware Switch 48 10/100/	1000BASE-T 4 10G/1G BASE-X SFP+ 1 Exp 2 Fan Tray 2	
I/O ports and slots	48 RJ-45 autosensing 10/100/1000 BASE-T (PoE+ ports); Duplex: Ports 1-48 support 10BASE-T/100BASE-TX, 1000BASE-T (full only); Ports 41-48 support MACsec 4 SFP+ 10GbE ports; 1 port expansion module slot		
Additional ports and	1 dual-personality (RJ-45 or mini USB) serial console port		
slots	1 RJ-45 out-of-band management port		
	1 USB 2.0		
Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)		
Fan tray	Airflow direction is Side to Bac		
Physical characteristics	Dimensions	17.32(w) x 18.11(d) x 1.72(h) in (44x 46 x 4.37 cm) (1U height)	
Physical characteristics	Weight	≤9.6kg	
Memory and processor	2 GB SDRAM; Packet buffer si:		
Mounting and enclosure		-inch telco rack or equipment cabinet (hardware included)	
Performance	IPv6 Ready Certified	-incritetico fack of equipment cabinet (hardware included)	
Performance	1000 Mb Latency	∠ E µo	
	•	< 5 μs	
	10 Gbps Latency	< 3 μs	
	Throughput	up to 180 Mpps	
	Routing/Switching capacity	-	
	Routing table size	32768 entries (IPv4), 16384 entries (IPv6)	
	MAC address table size	up to 64K, recommended 32K	
Environment	Operating temperature	23°F to 113°F (-5°C to 45°C)	
	Operating relative humidity		
	Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	
	Non-operating/Storage relative humidity	5% to 95%, noncondensing	
	Acoustic	Low-speed fan: 57.2 dB, High-speed fan: 68.7 dB; ISO 7779	
Electrical characteristics	Frequency	50/60 Hz	
	Maximum heat dissipation	Ranges from 112 BTU/hr to 5943 BTU/hr depending on power supply configuration	
	Voltage	90 VAC to 264 VAC -36 VDC to -72 VDC	
	Current	3A	
	Maximum power rating	1110 W	
	Idle power	33 W	
	PoE power	1440 W PoE+	
	 Notes: Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE+ power range is from 450W to 1440W. PoE+ power is the power supplied by the internal power supply(ies). It is dependent on the type and quantity of power supplies. Device supports 1 or 2 internal modular power supplies. 		

Safety Emissions	PSR720-56A:1 UL 60950-1; EN 60 2; IEC 60950-1; EN Compliance; AS/NZ	 DC maximum Input Current is 6A. Voltage range for power modules- PSR360-56A: 6-3A, PSR720-56A:10-5A, PSR1110-56A: 12-6A 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) EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; EN 61000-4-11:2004; ANSI C63.4-2009; 		
	3:2006; EN 61000-	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	Generic	EN 55024		
	ESD	EN300 386		
Management	IMC - Intelligent Ma	IMC - Intelligent Management Center; Command-line interface; SNMP manager		
Services	details on the service	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.		

Standards and Protocols (applies to all products in series) **BGP**

- RFC 1657 Definitions of Managed Objects for BGPv4
- RFC 1771 BGPv4
- RFC 2385 BGP Session Protection via TCP MD5
- RFC 2858 BGP-4 Multi-Protocol Extensions

Device Management

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

General Protocols

- IEEE 802.1ad Q-in-Q
- IEEE 802.1ak Multiple Registration Protocol (MRP) and Multiple VLAN Registration Protocol (MVRP)
- IEEE 802.1AE MACsec
- IEEE 802.1AX-2008 Link Aggregation
- IEEE 802.1D MAC Bridges
- IEEE 802.1p Priority
- IEEE 802.1Q (GVRP)
- IEEE 802.1Q VLANs
- IEEE 802.1s Multiple Spanning Trees
- IEEE 802.1v VLAN classification by Protocol and Port

- IEEE 802.1w Rapid Reconfiguration of Spanning Tree
- IEEE 802.1X PAE
- IEEE 802.3 Type 10BASE-T
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3ac (VLAN Tagging Extension)
- IEEE 802.3ad Link Aggregation (LAG)
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- IEEE 802.3ae 10-Gigabit Ethernet
- IEEE 802.3af Power over Ethernet
- IEEE 802.3at Power over Ethernet Plus
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 802.3i 10BASE-T
- IEEE 802.3u 100BASE-X
- IEEE 802.3x Flow Control
- IEEE 802.3z 1000BASE-X
- RFC 768 UDP
- RFC 783 TFTP Protocol (revision 2)
- RFC 791 IP
- RFC 792 ICMP
- RFC 793 TCP
- RFC 826 ARP
- RFC 854 TELNET
- RFC 855 Telnet Option Specification
- RFC 894 IP over Ethernet
- RFC 925 Multi-LAN Address Resolution
- RFC 950 Internet Standard Subnetting Procedure
- RFC 951 BOOTP
- RFC 959 File Transfer Protocol (FTP)
- RFC 1027 Proxy ARP
- RFC 1042 IP Datagrams
- RFC 1058 RIPv1
- RFC 1071 Computing the Internet Checksum
- RFC 1122 Requirements for Internet Hosts Communication Layers
- RFC 1123 Requirements for Internet Hosts
- RFC 1141 Incremental updating of the Internet checksum
- RFC 1166 IP Addresses
- RFC 1191 Path MTU discovery
- 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 1542 BOOTP Extensions
- RFC 1591 DNS (client only)
- RFC 1643 Definitions of Managed Objects for the Ethernet-like Interface Types
- RFC 1723 RIP v2
- RFC 1812 IPv4 Routing
- RFC 1866 Hypertext Markup Language 2.0
- RFC 1887 An Architecture for IPv6 Unicast Address Allocation

- RFC 1901 Introduction to Community-based SNMPv2
- RFC 1902-1907 SNMPv2
- RFC 2131 DHCP
- RFC 2236 IGMP Snooping
- RFC 2338 VRRP
- RFC 2375 IPv6 Multicast Address Assignments
- 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 Hypertext Transfer Protocol -- HTTP/1.1
- RFC 2644 Directed Broadcast Control
- 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 2711 IPv6 Router Alert Option
- RFC 2784 Generic Routing Encapsulation (GRE)
- 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 3209 RSVP-TE Extensions to RSVP for LSP Tunnels
- RFC 3246 Expedited Forwarding PHB
- RFC 3410 Applicability Statements for SNMP
- RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)
- RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)
- RFC 3416 Protocol Operations for SNMP
- RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP)
- RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)
- RFC 3484 Default Address Selection for Internet Protocol version 6 (IPv6)
- RFC 3493 Basic Socket Interface Extensions for IPv6
- RFC 3542 Advanced Sockets Application Program Interface (API) for IPv6
- 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 3596 DNS Extensions to Support IP Version 6
- RFC 3623 Graceful OSPF Restart
- RFC 3704 Unicast Reverse Path Forwarding (URPF)
- RFC 3768 Virtual Router Redundancy Protocol (VRRP)
- RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6
- RFC 4090 Fast Reroute Extensions to RSVP-TE for LSP Tunnels
- RFC 4113 Management Information Base for the User Datagram Protocol (UDP)
- RFC 4213 Basic IPv6 Transition Mechanisms
- RFC 4250 The Secure Shell (SSH) Protocol Assigned Numbers
- RFC 4251 The Secure Shell (SSH) Protocol Architecture
- RFC 4252 The Secure Shell (SSH) Authentication Protocol
- RFC 4253 The Secure Shell (SSH) Transport Layer Protocol
- RFC 4254 The Secure Shell (SSH) Connection Protocol
- RFC 4291 IP Version 6 Addressing Architecture
- RFC 4443 Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification

- 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 4594 Configuration Guidelines for DiffServ Service Classes
- RFC 4675 RADIUS VLAN & Priority
- RFC 4750 OSPF Version 2 Management Information Base
- RFC 4762 Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling
- RFC 5095 Deprecation of Type 0 Routing Headers in IPv6
- 802.1r GARP Proprietary Attribute Registration Protocol (GPRP)

IP Multicast

- RFC 1112 IGMPv1
- RFC 2236 IGMPv2
- RFC 2710 Multicast Listener Discovery (MLD) for IPv6
- RFC 2858 Multiprotocol Extensions for BGP-4
- RFC 3376 IGMPv3
- RFC 3569 An Overview of Source-Specific Multicast (SSM)
- RFC 3618 Multicast Source Discovery Protocol (MSDP)
- RFC 3973 PIM Dense Mode
- RFC 4601 PIM Sparse Mode

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 2545 Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing
- RFC 3162 RADIUS and IPv6
- RFC 3306 Unicast-Prefix-based IPv6 Multicast Addresses
- RFC 3307 IPv6 Multicast Address Allocation
- 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 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 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions
- RFC 2737 Entity MIB (Version 2)
- RFC 2819 RMON MIB
- RFC 2863 The Interfaces Group MIB
- RFC 2925 Ping MIB
- RFC 3414 SNMP-User based-SM MIB
- RFC 3415 SNMP-View based-ACM MIB
- RFC 3418 MIB for SNMPv3
- RFC 3621 Power Ethernet MIB

MPLS

- RFC 2961 RSVP Refresh Overhead Reduction Extensions
- RFC 3031 Multiprotocol Label Switching Architecture
- RFC 3032 MPLS Label Stack Encoding
- RFC 3036 LDP Specification
- RFC 4762 Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling

Network Management

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
- RFC 1215 Convention for defining traps for use with the SNMP
- 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

OSPF

- RFC 1587 OSPF NSSA
- RFC 1850 OSPFv2 Management Information Base (MIB), traps
- RFC 2328 OSPFv2
- RFC 2370 OSPF Opaque LSA Option

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 Authentication
- RFC 2866 RADIUS Accounting



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

Summary of Changes

Date	Version History	Action	Description of Change
02-Dec-2024	Version 13	Changed	Configuration Information and Technical Specifications sections were updated.
14-Oct-2024	Version 12	Changed	Configuration Information was updated.
01-Jul-2024	Version 11	Changed	Overview and Configuration Information sections were updated.
04-Dec-2023	Version 10	Changed	Series name was updated.
06-Feb-2023	Version 9	Changed	Configuration Information was updated.
15-Aug-2022	Version 8	Changed	Technical Specifications section was updated.
01-Aug-2022	Version 7	Changed	Configuration Information section was updated.
06-Jun-2022	Version 6	Changed	Standard Features section was updated.
04-Apr-2022	Version 5	Changed	Overview, Standard Features, and Configuration Information sections were updated.
13-Dec-2021	Version 4	Changed	Standard Features section was updated.
18-Oct-2021	Version 3	Changed	Overview and Standard Features sections were updated.
15-Sep-2021	Version 2	Changed	Overview, Configuration Information, and Technical Specifications
			sections were updated.
07-Sep-2021	Version 1	New	New QuickSpecs

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