Data sheet

HPE Networking Comware Switch Series 5960

What's new

- High-performance, high-density, and backward-compatible switch with varied 400G/200G/100G/25G connectivity options
- OS Comware v9 offers enhanced software features such as Segment Routing MPLS, PTP/SyncE, egress ACL, egress rate limiting, and others for highly distributed environments
- Dual, redundant, hot-swappable power supplies maintain a dynamic and highly available network
- Supports HPE IMC for a consistent network manageability experience while integrating with HPE IMC Orchestrator and Analyzer for data center fabric orchestration, monitoring, and application telemetry

Overview

The HPE Networking Comware Switch Series 5960 is a high-performance, high-density top-of-rack (ToR) switch designed for enterprise data centers, cloud service providers, and telco environments. With multiple connectivity options including 400G 100G QSFP28 and 25G SFP28 ports, these switches offer exceptional performance and improved power savings.

VXLAN/EVPN and DRNI help improve scalability and resiliency, while modern software features enable a dynamic and highly available network. HPE Intelligent Management Center (IMC) support provides centralized configuration, compliance, policy management, monitoring, and troubleshooting. HPE IMC Orchestrator and Analyzer are also supported for data center fabric orchestration and application telemetry.

Features

Consistent and Advanced Data Center Switches with Flexible Connectivity Options

The HPE Networking Comware Switch Series 5960 delivers high-density 25G/40G/100G/200G/400G switching for enterprise, cloud, and service provider data centers—helping teams scale bandwidth, simplify deployments, and support demanding workloads with flexible, performance-driven configurations.

Built on Comware v9, the switch series delivers advanced capabilities for highly distributed environments, including SR-MPLS, modular open architecture, containerized deployment, and support for third-party software applications.

It has VXLAN/EVPN for network virtualization and overlay solutions for improved flexibility.

The switch series supports DRNI that combines multiple physical switches into one virtual distributed-relay (DR) system for doubling aggregate bandwidth, fast forwarding, resiliency, and high availability.

The 5960R model supports PTP, SR, VXLAN, EVPN. DRNI, HPE IMC Orchestrator

High-Performance Data Center Switching

The HPE Networking Comware Switch Series 5960 supports redundant, hot-swappable power modules and varied fan speeds to meet the actual demands, thereby enabling a dynamic and highly available network.

Delivers up to 12.8 Tbps switching capacity for demanding data center applications.

Low latency, under 1 s delivering increased network throughput.

Uses programmable chips that improve flexibility and aid in network expansion by defining forwarding logic and developing new features as per user needs through simple software upgrades.

Rich Quality of Service (QoS) features

The HPE Networking Comware Switch Series 5960 support Layer 2 to Layer 4 packet filtering for traffic classification based on source MAC address, destination MAC address, source IP address, destination IP address, TCP/UDP port number, protocol type, and VLAN.

The switch series Supports committed access rate (CAR) and line rate for anomaly detection and troubleshooting.

It provides extensive traffic prioritization with strict priority (SP) queuing, weighted round robin (WRR), SP+WRR, WFQ, and SP+WFQ.

Improved Visibility and Simplified Management

The HPE Networking Comware Switch Series 5960 supports operations, administration, and maintenance (OAM) for improved manageability.

The switch series increase network visibility by sending real-time information, statistics, and RDMA notifications to the data center operation and maintenance platform through ERSPAN and gRPC protocols.

It support real-time analysis, troubleshooting, and risk warning to improve network performance and provide business continuity.

The switch series uses multiple access methods including SNMPv1/v2c/v3, Telnet, SSH 2.0, SSL, and FTP to monitor essential network functions; and supports events, alarm, history, and statistics group plus a private alarm extension group.

It supports centralized configuration, compliance and policy management, monitoring, and troubleshooting with HPE IMC to provide a consistent network manageability experience; for data center fabric orchestration and application telemetry, this switch supports HPE IMC Orchestrator and Analyzer.

Technical specifications	HPE Networking Comware Switch Series 5960
Power consumption	830W
Heat dissipation	4382.65 BTU/h maximum
Input voltage	DC Input Voltage 180V to 320V AC Input Voltage 100V to 240V
Ports	32x 400G port or 24x 100G/200G+ 8x 400G QDD depending on the model
Latency	<1.2µs
Switching capacity	12.8 Tbps
Memory and processor	D-1627 @2.9 GHz, 16G DDR4, 240G SSD
Power supply	2x R9Y18A/R9Y19A
Operating temperature	0°C to 40°C (32°F to 104°F)
Management features	HPE IMC CLI out-of-band management SNMP Manager Telnet and FTP. Notes: The customer must install a minimum of one power supply, as the device does not come with one. The customer must install six fan kits, as the device does not come with one.
Warranty	Limited lifetime warranty. See the warranty duration.

SKU comparison

	HPE Networking Comware Data Center Switch 24-port 100/200G QSFP56 8-port 400G QSFP-DD 5960 (R9Y12A)	HPE Networking Comware Data Center Switch 32-port 400G QSFP-DD 5960 (R9Y13A)	HPE Networking Comware Data Center Switch 48p QSFP28 100G 6p QSFP-DD 400G 5960R (S4J82A)	HPE Networking Comware Switch 48p SFP28 25G 8p QSFP-DD 400G 5960 (S7U88A)
Differentiator	HPE Networking Comware Switch Series 5960 with 24 ports of 100G/200G and 8 ports of 400G making it backwards compatible and providing 8 Tbps of switching capacity with dual redundant power supplies.	HPE Networking Comware Switch Series 5960 with 32 ports of 400G, providing 12.8 Tbps of switching capacity with dual redundant power supplies.	HPE Networking Comware Switch Series 5960 with 48 ports of 100G and 6 ports of 400G, providing 7.2 Tbps of switching capacity with redundant power modules, and fan trays.	HPE Networking Comware Switch Series 5960 with 48 ports of 25G and 8 ports of 400G, providing 4.4 Tbps of switching capacity with redundant power modules, and fan trays.
Power consumption	830W	830W	619W	719W
Heat dissipation	4382.65 BTU/h	2830 BTU/h	2112 BTU/h	2453 BTU/h
Input voltage	DC- Input Voltage 180V to 320V; AC-Input Voltage 100V to 240V	DC- Input Voltage 180V to 320V; AC-Input Voltage 100V to 240V	DC- Input Voltage 180V to 320V; AC-Input Voltage 100V to 240V	DC Input Voltage 180V to 320V AC Input Voltage 100V to 240V
Ports	24x 100G/200G QSFP56/ QSFP28 ports 8x 400G QDD ports 2x SFP+ ports	32x 400G QSFPDD ports 2x SFP+ ports	48x 100G QSFP28 6x QSFP-DD ports	48x 25G SFP28 ports 8x 400G QSFP-DD ports
Latency	<1.2us	<1.2us	56µs (64-byte packets)	<1.2µs
Routing/switching capacity	8 Tbps	12.8 Tbps	14.4 Tbps	
Switching capacity	8 Tbps	12.8 Tbps	7.2 Tbps	4.4 Tbps
Throughput	2605 Mpps	5346 Mpps	2700 Mpps	
Memory and processor	D-1627 @2.9 GHz,16G DDR4, 240G SSD	D-1627 @2.9 GHz,16G DDR4, 240G SSD	32G DDR4 memory, 4GB Nand Flash (eMMC)	D-1627 4 core@2.9GHz 16G DDR4, 240G SSD
Power supply	2x R9Y18A/R9Y19A			

	HPE Networking Comware Data Center Switch 24-port 100/200G QSFP56 8-port 400G QSFP-DD 5960 (R9Y12A)	HPE Networking Comware Data Center Switch 32-port 400G QSFP-DD 5960 (R9Y13A)	HPE Networking Comware Data Center Switch 48p QSFP28 100G 6p QSFP-DD 400G 5960R (S4J82A)	HPE Networking Comware Switch 48p SFP28 25G 8p QSFP-DD 400G 5960 (S7U88A)
Operating temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Management features	IMC; CLI; out-of-band management; SNMP Manager; Telnet; FTP. Notes: The customer must install a minimum of one power supply, as the device does not come with one. The customer must install 6 fan kits, as the device does not come with one.	IMC; CLI; out-of-band management; SNMP Manager; Telnet; FTP. Notes: The customer must install a minimum of one power supply, as the device does not come with one. The customer must install 6 fan kits, as the device does not come with one.	IMC; CLI; out-of-band management; SNMP Manager; Telnet; FTP. Notes: The customer must install a minimum of one power supply, as the device does not come with one. The customer must install 6 fan kits, as the device does not come with one.	HPE IMC; CLI; out-of-band management; SNMP Manager; Telnet; and FTP. Notes: The customer must install a minimum of one power supply, as the device does not come with one. The customer must install six fan kits, as the device does not come with one.
Warranty	Limited lifetime warranty. See the warranty duration.			

Related Options

The following options are available for these series:

SKU	Description
Cables/Cable Kits	
R9J28A	HPE Networking X1E0 400G QSFP-DD to QSFP-DD 2m Passive Cable
JD095C	HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable
JD096C	HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable
JD097C	HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable
JG081C	HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable
JL271A	HPE Networking X240 100G QSFP28 1m DAC Cable
JL272A	HPE Networking X240 100G QSFP28 3m DAC Cable
JL273A	HPE Networking X240 100G QSFP28 5m DAC Cable
Networking Options	
S0E49A	HPE Networking Comware 1xQSFP-DD 400G to 4xQSFP56 100G 2x50G PAM4 2.5m Split Direct Attach Cable
S0P73A	HPE Networking Comware 1xQSFP-DD 400G to 8xSFP56 50G 2.5m Split Direct Attach Cable
S6H79A	HPE Networking Comware 400G QSFP-DD to 4x QSFP56 100G 5m Active Optical Cable
S6H80A	HPE Networking Comware 400G QSFP-DD to 4x QSFP56 100G 10m Active Optical Cable
S6H76A	HPE Networking Comware 400G QSFP-DD to QSFP-DD 10m Active Optical Cable
S6H77A	HPE Networking Comware 400G QSFP-DD to QSFP-DD 20m Active Optical Cable
S6H78A	HPE Networking Comware 400G QSFP-DD to QSFP-DD 30m Active Optical Cable
R9Y19A	HPE Networking Comware 5960 400G 48VDC 2400W Power Supply Unit
R9Y18A	HPE Networking Comware 5960 400G 1600W AC Power Supply Unit
R9Y16A	HPE Networking Comware Module 400G Port Side to Power Supply Side Airflow Fan 5960
R9Y17A	HPE Networking Comware Module 400G Power Supply Side to Port Side Airflow Fan 5960
Networking Software	
JL850AAE	HPE Networking IMC Orchestrator Analyzer Add-on License E-LTU
JL852AAE	HPE Networking IMC Orchestrator Analyzer IP Host Add-on License E-LTU
JL849AAE	HPE Networking IMC Orchestrator Base License E-LTU
JL851AAE	HPE Networking IMC Orchestrator Network Node Add-on License E-LTU
Switches	
JL255A	HPE Aruba Networking 2930F 24G PoE+ 4SFP+ Switch
JL845A	HPE Networking 12900E Type X Main Processing Unit

JL844A	HPE Networking 12904E Type X Main Processing Unit
JH262A	HPE Networking Comware Switch Chassis 12904E

Transceiver Options

S2P29A	HPE Networking Comware 100G FR1 QSFP28 LC 2km SMF Transceiver
JG326A	HPE Networking Comware X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable
JG327A	HPE Networking Comware X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable
JG328A	HPE Networking Comware X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable
JG329A	HPE Networking Comware X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable
JG330A	HPE Networking Comware X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable
JG331A	HPE Networking Comware X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable
R9J30A	HPE Networking X1E0 400G QSFP-DD FR4-WDM1300 2km LC Transceiver
R9J29A	HPE Networking X1E0 400G QSFP-DD SR8 MM850 100m OM4 MPO16/APC Transceiver
JL290A	HPE Networking X2A0 10G SFP+ to SFP+ 7m Active Optical Cable
JL291A	HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable
JL292A	HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable
JL287A	HPE Networking X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable
JL288A	HPE Networking X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable
JL289A	HPE Networking X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable
JL796A	HPE Networking X2A0 100G QSFP28 5m Active Optical Cable
JL795A	HPE Networking X2A0 100G QSFP28 30m Active Optical Cable
JL276A	HPE Networking X2A0 100G QSFP28 to QSFP28 7m Active Optical Cable
JL277A	HPE Networking X2A0 100G QSFP28 to QSFP28 10m Active Optical Cable
JL278A	HPE Networking X2A0 100G QSFP28 to QSFP28 20m Active Optical Cable
JD103A	HPE Networking X120 1G SFP LC LH100 Transceiver
JD119B	HPE Networking X120 1G SFP LC LX Transceiver
JD118B	HPE Networking X120 1G SFP LC SX Transceiver
JD089B	HPE Networking X120 1G SFP RJ45 T Transceiver
JL738A	HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver
JL737A	HPE Networking X130 10G SFP+ LC BiDi 10km-Uplink Transceiver
JL740A	HPE Networking X130 10G SFP+ LC BiDi 40km-Downlink Transceiver
JL739A	HPE Networking X130 10G SFP+ LC BiDi 40km-Uplink Transceiver
JG234A	HPE Networking X130 10G SFP+ LC ER 40km Transceiver
JG915A	HPE Networking X130 10G SFP+ LC LH 80km Transceiver
JD094B	HPE Networking X130 10G SFP+ LC LR Transceiver
JD092B	HPE Networking X130 10G SFP+ LC SR Transceiver

JG709A	HPE Networking X140 40G QSFP+ CSR4 300m Transceiver
JL251A	HPE Networking X140 40G QSFP+ LC BiDi 100m MM Transceiver
JL306A	HPE Networking X140 40G QSFP+ LC ER4 40km SM Transceiver
JG661A	HPE Networking X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver
JL286A	HPE Networking X140 40G QSFP+ LC LR4L 2km SM Transceiver
JG325B	HPE Networking X140 40G QSFP+ MPO SR4 Transceiver
JH673A	HPE Networking X150 100G QSFP28 CWDM4 2km SM Transceiver
JQ344A	HPE Networking X150 100G QSFP28 LC BiDi 100m MM Transceiver
JL275A	HPE Networking X150 100G QSFP28 LC LR4 10km SM Transceiver
JH419A	HPE Networking X150 100G QSFP28 LC SWDM4 100m MM Transceiver
JL274A	HPE Networking X150 100G QSFP28 MPO SR4 100m MM Transceiver
JH420A	HPE Networking X150 100G QSFP28 PSM4 500m SM Transceiver
JH672A	HPE Networking X150 100G QSFP28 eSR4 300m MM Transceiver
JL282A	HPE Networking X240 QSFP28 4xSFP28 1m Direct Attach Copper Cable
JL283A	HPE Networking X240 QSFP28 4xSFP28 3m Direct Attach Copper Cable
JL284A	HPE Networking X240 QSFP28 4xSFP28 5m Direct Attach Copper Cable

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Support services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

— **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.

— **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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

Image may differ from the actual product.

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