

# HPE Networking Comware 5960 32 Port 400G QSFP-DD Data Center Switch (R9Y13A)



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## What's new

- High-performance, high-density, and backward-compatible switch with varied 400/200/100G connectivity options.
- OS Comware v9 offers enhanced software features such as Segment Routing MPLS, SR-V6, 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.

## Overview

The HPE Networking Comware 5960 Switch Series 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 and 100G QSFP28 ports, these switches offer exceptional performance and improved power savings. VXLAN/EVPN and DRNI 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 DC fabric

- 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.

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## Features

### Consistent and Advanced Data Center Switches with Flexible Connectivity Options

The HPE Networking Comware 5960 Switch Series offers multiple connectivity options of 25/40/100/200/400G with two SKUs—A high-density 32 x 400GbE QSFP-DD switch and a highly flexible 24x100/200G + 4x400G QSFP-DD switch that is backward compatible with the widely used 100G QSFP28 ports.

Supports new-generation OS Comware v9 offering enhanced features such as SR-MPLS, SR-V6, and others for highly distributed environments built on a modular and open architecture; supports containerized deployment; can run third-party software applications.

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

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

### High-Performance Data Center Switching

The HPE Networking Comware 5960 Switch Series 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 5960 Switch Series 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.

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

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

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.

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

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.

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



**Technical specifications****HPE Networking Comware 5960 32 Port 400G QSFP-DD Data Center Switch**

<b>Product Number</b>	R9Y13A
<b>Ports</b>	1 I/O module slot Supports a max of 32 400G QSFPDD ports and 2 SFP+ ports
<b>Memory and processor</b>	D-1627 @2.9GHz,16G DDR4, 240G SSD
<b>Latency</b>	<1.2us
<b>Routing/switching capacity</b>	12.8 Tbps
<b>Switching capacity</b>	12.8 Tbps
<b>Management features</b>	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.
<b>Input voltage</b>	DC- Input Voltage 180V to 320V AC-Input Voltage 100V to 240V
<b>Operating temperature</b>	0°C to 40°C
<b>Power consumption</b>	830W
<b>Heat dissipation</b>	2830 BTU/h



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

## 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.

### Consulting 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.

### Operational 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.

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

## HPE GreenLake

HPE GreenLake edge-to-cloud platform is HPE's market-leading as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model, on premises, fully managed in a pay per use model.

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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.

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