

# HPE Networking Comware Switch Series 5945

## HPE Networking Comware Switch 32QSFP28 5945 (JQ077A)



### What's new

- High-density spine and top-of-rack (ToR) connectivity with 100GbE/40GbE/25GbE/10GbE support, plus cut-through switching for low-latency, wire-speed performance
- New 32G and 16G Fibre Channel support for storage networking, plus ROCE v1/v2 for RDMA-based high-performance computing, along with VXLAN, EVPN, and MPLS capabilities for virtualized environments
- Greater flexibility with two-slot or four-slot options for use cases such as MACsec 256-bit encryption, high-performance data center leaf deployments, storage networking, and NVMe storage
- IPv4 and IPv6 support with a full Layer 2 and Layer 3 feature set, plus PTP 1588v2 for boundary clock, transparent clock, end-to-end, or peer-to-peer synchronization.
- HPE IMC Orchestrator and Analyzer to enhance network operations through orchestration, automation,

### Overview

The HPE Networking Comware Switch Series 5945 is a family of high-density, ultra-low-latency top-of-rack (ToR) switches designed for large enterprise data centers and telecom environments. Ideal for aggregation or server access layers, these switches deliver exceptional performance and scalability—and are powerful enough for core deployments in medium-sized enterprises.

As virtualized applications and server-to-server traffic grow, data centers need spine and ToR switches that meet demanding throughput requirements. The 5945 series supports up to 100GbE per port, enabling high-performance server connectivity and seamless handling of virtual environments. With cut-through switching, wire-speed performance, and ultra-low latency, the 5945 series offers flexible options for port density and speeds, including 100GbE, 40GbE, 25GbE, and 10GbE, to fit your budget and IT environment.

and analytics

- New TAA-compliant SKUs made in USA enhance security with manual and automated code analysis to mitigate vulnerabilities and strengthen supply chain integrity.

## Features

### **High-density, Advanced, Data Center Switches with HPE IMC Orchestrator and Analyzer**

The HPE Networking Comware Switch Series 5945 scales server-edge 1/10/25/40/100GbE ToR deployments with high-density options: 48×10GbE plus 6×40GbE or 6×100GbE, 32×40GbE, and 32×100GbE ports.

Available in a 2-slot modular version supporting two 40GbE or 100GbE ports, 48×10/25GbE, 4×100GbE, or up to 16×100GbE through expansion modules for flexible configurations.

A 4-slot modular version is also available with expanded port options, four 40GbE ports, for high-performance networking in demanding data center environments.

HPE IMC Orchestrator and Analyzer offers enhanced network operations with orchestration, automation, and analytical capabilities.

### **High-performance Data Center Switching**

The HPE Networking Comware Switch Series 5945 delivers up to 2.56 Tbps switching capacity for demanding data center applications.

Supports up to 1,904 MPPS throughput for optimized performance in data-intensive environments and mission-critical workloads.

Provides ultra-low latency under 1µs for 40GbE, ensuring faster network response and improved application performance across deployments.

VXLAN support enables network virtualization and overlays for flexibility, with OVSDb integration for dynamic VXLAN tunnel management.

### **Business Agility and Resilience with Operating System Comware 7**

The HPE Networking Comware Switch Series 5945 supports Intelligent Resilient Framework (IRF) with less than 50ms convergence time, enabling faster application response.

In-service software update (ISSU) applies modular updates without reboot or power cycle, ensuring high availability and minimal downtime.

### **Simplicity and Lower TCO**

HPE Networking Comware Switch Series 5945 simplifies switch management with nine-unit IRF stacking for centralized configuration and control across multiple switches in complex networks.

It offers a single license per switch for all operating system features, eliminating hidden costs and simplifying procurement.

All switch ports are active and ready to use without requiring additional activation licenses, reducing complexity and deployment time.

Technical specifications	HPE Networking Comware Switch 32QSFP28 5945
<b>Product Number</b>	JQ077A
<b>Differentiator</b>	1U height
<b>Power consumption</b>	650W
<b>Heat dissipation</b>	1283 BTU/hr (1458 kJ/hr)
<b>Input voltage</b>	AC Rated voltage range: 100 VAC to 240 VAC @ 50/60 Hz Max voltage range: 90 VAC to 264 VAC @ 47 to 63 Hz DC Rated voltage range: -48 VDC to -60 VDC Max voltage range: -40 VDC to -72 VDC
<b>Ports</b>	32 x 100G QSFP28 ports, 2 x 1G SFP port
<b>Latency</b>	< 1 $\mu$ s (64-byte packets)
<b>Routing/switching capacity</b>	6.4 Tbps, maximum, depending on model and configuration
<b>Switching capacity</b>	6.4 Tbps
<b>Stacking capabilities</b>	Up to 10 members
<b>Throughput</b>	2024 Mpps
<b>Memory and processor</b>	1 GB flash Packet buffer size: 16 MB, 4 GB SDRAM or 32 MB 8 GB SDRAM
<b>Power supply</b>	2 power supply slots 1 minimum power supply required (ordered separately)
<b>Management features</b>	HPE Networking Intelligent Management Center (IMC) Command-line interface (CLI) Out-of-band management Simple Network Management Protocol (SNMP) Telnet File Transfer Protocol (FTP)  Additional ports: - 1 x console port - 1 x mini USB port - 1 x USB port - 2 x out-of-band management ports (one fiber and one copper port)
<b>Operating temperature</b>	32°F to 113°F (0°C to 45°C)
<b>Weight</b>	13.1 kg
<b>Product dimensions</b>	43.6 x 440 x 460 mm
<b>Warranty</b>	1-year. See the warranty duration.

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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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