

HPE Networking Comware Switch Series 5945

HPE Networking Comware Switch 48SFP28 8QSFP28 5945 (JQ074A)



What's new

- High-density 100GbE/40GbE/25GbE/10GbE spine/top-of-rack (ToR) connectivity and Cut-through switching with low-latency and wire speed performance.
- New 32G/16G support for storage networking and ROCE V1/V2 for RDMA High-Performance computing.VXLAN, EVPN, and MPLS support for virtualized environments.
- Greater flexibility with two/four slot options for varying use cases such as MACsec 256-bit encryption, high-performance DC leaf, storage networking and NVMe storage.
- IPv4 and IPv6 support with full L2/L3 features and PTP 1588V2 for Boundary Clock, Transparent Clock, End to End/Peer

Overview

The HPE Networking Comware Switch Series 5945 are high-density, ultra-low-latency, and top-of-rack (ToR) switches ideally suited for deployment at the aggregation or server access layer of large enterprise data centers. The HPE 5945 Series is also powerful enough for deployment at the core layer of medium-sized enterprises. With the increase in virtualized applications and server-to-server traffic, customers require spine and ToR switches that can meet their throughput requirements. With the HPE 5945 Series, data centers can now support up to 100GbE per port, allowing high performance server connectivity and the capabilities to handle virtual environments. The HPE Networking Comware Switch Series 5945 provides choices that fit your budget and IT environment by cut-through with ultra-low-latency and wire speed, offering different port density and speeds of 100GbE/40GbE/25GbE/10GbE spine/ToR connectivity.

to Peer Transparent Clock.

- HPE Aruba Networking IMC Orchestrator and Analyzer for enhanced network operations with orchestration, automation, and analytical capabilities.
- New made in USA TAA-compliant SKUs offer heightened security via manual and automated source code analysis to address common programming issues, easing concerns about "made in China" products.

Features

High-density, Advanced, Data Center Switches with HPE Aruba Networking IMC Orchestrator and Analyzer

The HPE Networking Comware Switch Series 5945 enables customers to scale their server-edge 1/10/25/40/100GbE top-of-rack (ToR) deployments with high-density 48 x 10GbE (SFP or BASE-T) with 6 x 40GbE ports, 48 x 10GbE (SFP or BASE-T) with 6 x 100GbE ports, 32 x 40GbE ports, and 32 x 100 GbE ports.

Available with a 2-slot modular version delivering two 40GbE or 100GbE ports, 48 x 10/25GbE, 4 x 100GbE, or up to 16 x 100GbE from modules.

A 4-slot modular version is also available with four 40GbE ports.

HPE Aruba Networking 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 1904 MPPS throughput for data-intensive environments.

Low latency, under 1s for 40GbE, delivering increased network throughput.

VXLAN support for network virtualization and overlay solutions for improved flexibility. Includes Open vSwitch Database (OVSDb) for dynamic VXLAN tunnel management.

Business Agility and Resilience with Hewlett Packard Enterprise Comware 7

The HPE Networking Comware Switch Series 5945 delivers Hewlett Packard Enterprise Intelligent Resilient Fabric (IRF) with <50 msec convergence time enabling faster application response time.

The In-Service Software Update (ISSU) enables high availability with modular updates accomplished without a reboot or power cycle, in the background.

Simplicity and Lower TCO

HPE Networking Comware Switch Series 5945 simplifies switch management by up to 88% with 9-unit Hewlett Packard Enterprise Intelligent Resilient Fabric (IRF).

No hidden costs with simple one license per switch for all operating system features.

All switch ports are active and ready to use without the need for activation licenses.



Technical specifications

HPE Networking Comware Switch 48SFP28
8QSFP28 5945

Product Number	JQ074A
Differentiator	48 SFP28 and 8 QSFP28 ports, fixed-port switch. TAA equivalent: S3K87A
Ports	48 x 25 Gb SFP28 ports; 8 x 100 Gb QSFP28 ports; 2 x 1 Gb SFP ports; Supports 48 x 10/25GbE and 8 x 100GbE fixed ports, or up to 80 x 10GbE ports when using splitter cables. Additional ports and slots: 1 x console port; 1 x mini USB port; 1 x USB port; 2 x out-of-band management ports (one fiber port and one copper port)
Memory and processor	1 GB flash packet buffer size: 32 MB 8 GB SDRAM
Latency	< 1 μ s (64-byte packets)
Throughput	< 1 s (64-byte packets) up to 2003 Mpps 2 Tbps
Routing/switching capacity	4 Tbps, maximum, depending on configuration
Switch fabric speed	3.2 Tbps
Switching capacity	2024 Mpps
Routing capabilities	2024 Mpps
Stacking capabilities	10
Management features	1 x serial console port 1 x mini USB console port 1 x USB port 2 x out-of-band management ports (one fiber port and one copper port)
Power supply name	HPE 58x0AF 650W AC (JC680A) HPE FlexFabric Switch 650W 48V Hot Plug NEBS Compliant DC Power Supply (JH336A)
Input voltage	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
Power consumption	650W
Heat dissipation	1381 BTU/hr (1458 kJ/hr)
Product dimensions	43.6 x 440 x 460 mm
Weight	10.1 kg



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

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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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