

HPE Networking Comware Switch Series 5945



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 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

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.

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 1μs 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 Series 5945
Ports	I/O ports and slots: - JQ074A/S3K87A: 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; - JQ075A/S3K88A: 2 module slots, 2 x 100 Gb QSFP28 ports. Supports up to a maximum of 48 x 10/25GbE and 4 x 100GbE ports, or up to 16 x 100GbE ports from modules; - JQ077A/S3K90A: 32 x 100 Gb QSFP28 ports, 2 x 1 Gb SFP ports; - JQ076A/S3K89A: 4 module slots, 2 x 1 Gb SFP ports. Supports up to a maximum of 96 x 10/25GbE and 8 x 100GbE ports, or up to 32 x 100GbE ports; 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: 16 MB, 4 GB SDRAM or 32 MB 8 GB SDRAM
Latency	< 1 μ s (64-byte packets)
Throughput	Up to 2024 Mpps
Routing/switching capacity	6.4 Tbps, maximum, depending on model and configuration
Switching capacity	6.4 Tbps, maximum, depending on model and configuration
Stacking capabilities	Up to 10 HPE 5945 switches
Management features	IMC, CLI, out-of-band management, SNMP Manager, Telnet, FTP
Power supply name	2 power supply slots 1 minimum power supply required (ordered separately)
Input voltage	100 VAC to 240 VAC V rated, 90 VAC to 264 VAC max; -40 VDC to -60 VDC rated -40 VDC to -72 VDC max
Power consumption	650W maximum
Heat dissipation	Maximum heat dissipation: - JQ074A/S3K87A: 1381 BTU/hr (1458 kJ/hr) - JQ075A/S3K88A: 1392 BTU/hr (1458 kJ/hr) - JQ076A/S3K89A: 2348 BTU/hr (2478 kJ/hr) - JQ077A/S3K90A: 1283 BTU/hr (1458 kJ/hr) Notes: 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.

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.

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.

If you are looking for more services, like **IT financing solutions**, please [explore them here](#).

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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