



HPE FlexFabric 5945 4-slot Switch (JQ076A)

Switches



What's new

- High-density 100GbE/40GbE/25GbE/10GbE spine/top-of-rack (ToR) connectivity.
- HPE FlexFabric Network Analytics solution supporting real time microburst detection.
- VXLAN, VTEP, and OVSD support for virtualized environments.
- Cut-through switching with ultra-low-latency and wire speed performance.
- IPv6 support with full Layer 2 and Layer 3 features.

Overview

The HPE FlexFabric 5945 Switch Series 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 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, data centers can now support up to 100GbE per port, allowing high performance server connectivity and the capabilities to handle virtual environments. The HPE FlexFabric 5945 Switch Series 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 100GbE/40GbE/25GbE/10GbE spine/ ToR connectivity.

Features

High-density, Advanced, Data Center Switches with HPE FlexFabric Network Analytics

The HPE FlexFabric 5945 Switch Series enables customers to scale their server-edge 10/40/100GbE 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, and 32 x 40GbE ports, delivered in a 1RU design.

Available with a 2-slot modular version delivering two 40GbE ports and a 4-slot modular version with four 40GbE ports.

Includes HPE FlexFabric Network Analytics, which in conjunction with the HPE IMC Virtual Application Networking Fabric Manager, delivers real time visibility of microburst network congestion which negatively impacts overall network operations and performance.

High-performance Data Center Switching

The HPE FlexFabric 5945 Switch Series 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 FlexFabric 5945 Switch Series 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 FlexFabric 5945 Switch Series 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 FlexFabric 5945 4-slot Switch

Product Number (SKU)	JQ076A
Differentiator	4 module slots and 2 x 1 Gb SFP ports, supporting up to a maximum of 96 x 10/25GbE and 8 x 100GbE ports, or up to 32 x 100GbE ports
Ports	4 module slots and 2 x 1 Gb SFP ports, supporting up to a maximum of 96 x 10/25GbE and 8 x 100GbE ports, or up to 32 x 100GbE ports
Memory and processor	1 GB flash packet buffer size: 16 MB, 4 GB SDRAM
Latency	< 1 s (64-byte packets)
Throughput	< 1 s (64-byte packets) up to 2003 Mpps 3.2 Tbps
Routing/switching capacity	6.4 Tbps, maximum, depending on configuration
Switch fabric speed	6.4 Tbps
Switching capacity	2024 Mpps
Routing capabilities	2024 Mpps
Stacking capabilities	up to 10 HPE 5945 switches
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	355W (dual AC inputs, fully configured with LSWM18CQ interface modules) 361W (dual DC inputs, fully configured with LSWM18CQ interface modules)
Heat dissipation	2348 BTU/hr (2478 kJ/hr)
Minimum dimensions (H x W x D)	88.1 x 440 x 660 mm
Weight	27 kg

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

HPE Pointnext

HPE Pointnext leverages our breadth and depth of technical expertise and innovation to help to accelerate digital transformation. A comprehensive portfolio that includes—Advisory, Professional, and Operational Services is designed to help you evolve and grow today and into the future.

Operational Services

- **HPE Flexible Capacity** is a new consumption model to manage on-demand capacity, combining the agility and economics of public cloud with the security and performance of on-premises IT.
- **HPE Datacenter Care** offers a tailored operational support solution built on core deliverables. It includes hardware and software support, a team of experts to help personalize deliverables and share best practices, as well as optional building blocks to address specific IT and business needs.
- **HPE Proactive Care** is an integrated set of hardware and software support including an enhanced call experience with start to finish case management helping resolve incidents quickly and keeping IT reliable and stable.
- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.

Advisory Services includes design, strategy, road map, and other services to help enable the digital transformation journey, tuned to IT and business needs. Advisory Services helps customers on their journey to Hybrid IT, Big Data, and the Intelligent Edge.

Professional Services helps integrate the new solution with project management, installation and startup, relocation services, and more. We help mitigate risk to the business so there is no interruption when new technology is being integrated in the existing IT environment.

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