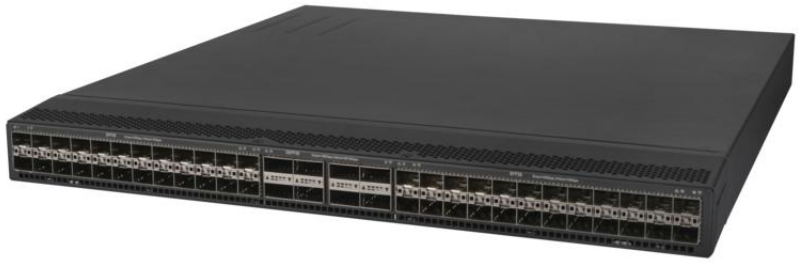
Hewlett Packard Enterprise

HPE FLEXFABRIC 5945 48SFP28 8QSFP28 SWITCH (JQ074A)

Fixed Port L3 Managed Ethernet 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 OVSDB support for virtualized environments.
- Cut-through switching with ultra-low-latency and wire speed performance.

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

- IPv6 support with full Layer 2 and Layer 3 features.

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 of 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 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.

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 48SFP28 8QSFP28 Switch

Product Number (SKU)	JQ074A
Differentiator	48 SFP28 and 8 QSFP28 ports, fixed-port switch
Ports	48 x 25 Gb SFP28, 8 x 100 Gb QSFP28, and 2 x 1 Gb SFP ports
Memory and processor	1 GB flash packet buffer size: 16 MB 4 GB SDRAM
Latency	< 1 µs (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 × serial console port 1 × mini USB console port 1 × USB port 2 × 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)
Minimum dimensions (H x W x D)	43.6 × 440 × 460 mm
Weight	10.1 kg

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

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Operational Services from HPE Pointnext Services

- **HPE Datacenter Care** helps modernize and simplify IT operations. Partner with an assigned account team, access technical expertise, an enhanced call experience gives you priority access, choose hardware and software support, implement proactive monitoring to help stay ahead of issues, and access HPE IT best practices and IP.
- **HPE Proactive Care** offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.). Read more
- **HPE Foundation Care** helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. Read more.

Other related services

Defective Media Retention is optional and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

HPE Service Credits offers a menu of technical services, access additional resources, and specialist skills.

HPE Education Services delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

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HPE Greenlake is HPE's market-leading IT 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. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

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Contact our presales specialists.

Find a partner

Chat now (sales)

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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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