HPE Networking Comware Switch Series 5940

What's new

- HPE FlexFabric Network Analytics solution provides network visibility and all information to run the network at its optimal performance.
- VXLAN Layer 2 and Layer 3 gateway support.
- Pre-configured switch bundles for deployment in the campus aggregation and core.
- Comware 7 advanced modular operating system designed for high availability.
- IRF supports of up to nine switches simplifies management by up to 88%.
- EVPN, OpenFlow and SDN automate manual tasks and speed service

Overview

The HPE FlexFabric 5940 Switch Series is a family of high-performance and low-latency 10GbE and 40GbE top-of-rack (ToR) data center switches. The 5940 Switch includes 100G uplink technology which is part of the HPE FlexFabric data center solution and is a cornerstone of the FlexNetwork architecture.
The 5940 Switch is suited for deployment at the aggregation or server access layer of large enterprise data centers or at the core layer of medium-sized enterprises. It is optimized for high-performance server connectivity, convergence of Ethernet and storage traffic, and virtual environments.

delivery.

Features

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

The HPE FlexFabric 5940 Switch Series enables customers to scale their server-edge 10/40/100GbE 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.

The HPE FlexFabric 5940 Switch Series is also available with a 2-slot modular version delivering 2 40GbE ports and a 4-slot modular version with 4 40GbE ports.

The HPE 5940 Switch Series 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 5940 Switch Series delivers up to 2.56 Tbps switching capacity for the most demanding data center applications.

It supports up to 1904 MPPS throughput for data-intensive environments.

Low latency, under 1µs for 40GbE, gives your network increased 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 Comware 7

The HPE FlexFabric 5940 Switch Series delivers Hewlett Packard Enterprise Intelligent Resilient Fabric (IRF) <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 5940 Switch Series simplifies switch management by up to 88% with 9-unit Intelligent Resilient Fabric (IRF).

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

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

Technical specifications	HPE Networking Comware Switch Series 5940
Input voltage	90 - 264 VAC, rated -40 to -75 VDC Depending on configuration
Ports	(48) 1/10GbE with (6) 40GbE or (6) 100GbE uplink ports, or (32) 40GbE ports, depending on model
Latency	10 Gbps Latency: < 1 µs
Routing/switching capacity	2560 Gbps Maximum, depending on model and configuration
Stacking capabilities	IRF 9 switches
Throughput	1904 Mpps Maximum, depending on model and configuration
Memory and processor	1 GB flash Packet buffer size: 16 MB 4 GB SDRAM
Management features	IMC - Intelligent Management Center Command-line interface Out-of-band management SNMP manager Telnet FTP
Warranty	1-year Warranty: See www.hpe.com/networking/warrantysummary for warranty and support information included with your product purchase. Software releases: for details on the software releases available with your product purchase refer to www.hpe.com/networking/warrantysummary.

SKU comparison

	HPE Networking Comware Switch 48SFP+ 6QSFP28 5940 (JH390A)	HPE Networking Comware Switch 48XGT 6QSFP28 5940 (JH391A)
Differentiator	48 10G SFP+ and 6 QSFP28 ports, dual hot-pluggable power supply and fan tray slots, and ultra-low-latency. It is ideally suited for deployment at the server access layer in large enterprises.	48 10GBASE-T copper and 6 QSFP28 ports, dual hot-pluggable power supply and fan tray slots, and ultra-low-latency. It is ideally suited for deployment at the server access layer in large enterpris
Power consumption	196 W (maximum)	320 W (maximum)
Heat dissipation	887 BTU/hr (935.79 kJ/hr)	
Input voltage	100 - 240 VAC, rated -40 to -60 VDC, rated (depending on power supply chosen)	
Ports	(48) fixed 1000/10000 SFP+ ports (6) QSFP28 100GbE ports	(48) 1/10GBASE-T ports (6) QSFP28 100GbE ports
Latency	10 Gbps Latency: < 1 µs	
Routing/switching capacity	2160 Gbps	
Stacking capabilities	IRF 9 switches	
Throughput	up to 1607 Mpps	
Memory and processor	1 GB flash Packet buffer size: 16 MB 4 GB SDRAM	
Management features	IMC - Intelligent Management Center Command-line interface Out-of-band management SNMP manager Telnet FTP	
Warranty	1-year Warranty: See www.hpe.com/networking/warrantysummary for warranty and support information included with your product purchase.; Software releases: for details on the software releases available with your product purchase; refer to www.hpe.com/networking/warrantysummary.	

Related Options

The following options are available for these series:

SKU	Description
Cables/Cable Kits	
JC784C	HPE Networking X240 10G SFP+ 7m DAC Cable
JD095C	HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable
JD096C	HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable
JD097C	HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable
JG081C	HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable
JL271A	HPE Networking X240 100G QSFP28 1m DAC Cable
JL272A	HPE Networking X240 100G QSFP28 3m DAC Cable
JL273A	HPE Networking X240 100G QSFP28 5m DAC Cable
Fans/Fan Options	
JC682A	HPE Networking 58x0AF Bck(pwr) Frt(prt) Fan Tray
JC683A	HPE Networking 58x0AF Frt(prt) Bck(pwr) Fan Tray
JG552A	HPE Networking X711 Frt(prt) Bck(pwr) HV Fan Tray
JG553A	HPE Networking X712 Bck(pwr) Frt(prt) HV Fan Tray
Power Management Options	
JC680A	HPE Networking 58x0AF 650W AC Power Supply
JG900A	HPE Networking A58x0AF 300W AC Power Supply
JG901A	HPE Networking A58x0AF 300W DC Power Supply
Transceiver Options	
JG326A	HPE Networking Comware X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable
JG327A	HPE Networking Comware X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable
JG328A	HPE Networking Comware X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable
JG329A	HPE Networking Comware X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable
JG330A	HPE Networking Comware X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable
JG331A	HPE Networking Comware X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable
JL290A	HPE Networking X2A0 10G SFP+ to SFP+ 7m Active Optical Cable
JL291A	HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable
JL292A	HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable
JL276A	HPE Networking X2A0 100G QSFP28 to QSFP28 7m Active Optical Cable
JL277A	HPE Networking X2A0 100G QSFP28 to QSFP28 10m Active Optical Cable

JL278A	HPE Networking X2A0 100G QSFP28 to QSFP28 20m Active Optical Cable
JD119B	HPE Networking X120 1G SFP LC LX Transceiver
JD118B	HPE Networking X120 1G SFP LC SX Transceiver
JD089B	HPE Networking X120 1G SFP RJ45 T Transceiver
JG234A	HPE Networking X130 10G SFP+ LC ER 40km Transceiver
JD094B	HPE Networking X130 10G SFP+ LC LR Transceiver
JD092B	HPE Networking X130 10G SFP+ LC SR Transceiver
JG709A	HPE Networking X140 40G QSFP+ CSR4 300m Transceiver
JL251A	HPE Networking X140 40G QSFP+ LC BiDi 100m MM Transceiver
JG661A	HPE Networking X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver
JL286A	HPE Networking X140 40G QSFP+ LC LR4L 2km SM Transceiver
JG325B	HPE Networking X140 40G QSFP+ MPO SR4 Transceiver
JH673A	HPE Networking X150 100G QSFP28 CWDM4 2km SM Transceiver
JQ344A	HPE Networking X150 100G QSFP28 LC BiDi 100m MM Transceiver
JL275A	HPE Networking X150 100G QSFP28 LC LR4 10km SM Transceiver
JH419A	HPE Networking X150 100G QSFP28 LC SWDM4 100m MM Transceiver
JL274A	HPE Networking X150 100G QSFP28 MPO SR4 100m MM Transceiver
JH420A	HPE Networking X150 100G QSFP28 PSM4 500m SM Transceiver
JH672A	HPE Networking X150 100G QSFP28 eSR4 300m MM Transceiver
JL282A	HPE Networking X240 QSFP28 4xSFP28 1m Direct Attach Copper Cable
JL283A	HPE Networking X240 QSFP28 4xSFP28 3m Direct Attach Copper Cable
JL284A	HPE Networking X240 QSFP28 4xSFP28 5m Direct Attach Copper Cable

Related Services

The following services are available for these series:

SKU	Description
Technology Services	
H2SF6E	HPE Aruba Networking Foundational Care 1Y 4HR Exch 5940 Fixed 48G SVC
H2SF9E	HPE Aruba Networking Foundational Care 1Y 4HR Onsite 5940 Fixed 48G SVC
H2SG0E	HPE Aruba Networking Foundational Care 1Y 4HR Onsite CDMR 5940 Fixed 48G SVC
H2SG1E	HPE Aruba Networking Foundational Care 1Y CTR 6-Hour 5940 Fixed 48G SVC
H2SG2E	HPE Aruba Networking Foundational Care 1Y CTR 6-Hour CDMR 5940 Fixed 48G SVC
H2SF5E	HPE Aruba Networking Foundational Care 1Y NBD Exch 5940 Fixed 48G SVC

H2SF7E	HPE Aruba Networking Foundational Care 1Y NBD Onsite 5940 Fixed 48G SVC
H2SF8E	HPE Aruba Networking Foundational Care 1Y NBD Onsite CDMR 5940 Fixed 48G SVC
H2SG4E	HPE Aruba Networking Foundational Care 3Y 4HR Exch 5940 Fixed 48G SVC
H2SH4E	HPE Aruba Networking Foundational Care 3Y 4HR Onsite 5940 Fixed 48G SVC
H2SH5E	HPE Aruba Networking Foundational Care 3Y 4HR Onsite CDMR 5940 Fixed 48G SVC
H2SJ0E	HPE Aruba Networking Foundational Care 3Y CTR 6-Hour 5940 Fixed 48G SVC
H2SJ1E	HPE Aruba Networking Foundational Care 3Y CTR 6-Hour CDMR 5940 Fixed 48G SVC
H2SG3E	HPE Aruba Networking Foundational Care 3Y NBD Exch 5940 Fixed 48G SVC
H2SG7E	HPE Aruba Networking Foundational Care 3Y NBD Onsite 5940 Fixed 48G SVC
H2SG8E	HPE Aruba Networking Foundational Care 3Y NBD Onsite CDMR 5940 Fixed 48G SVC
H2SM1E	HPE Aruba Networking Foundational Care 5Y 4HR Exch 5940 Fixed 48G SVC
H2SN1E	HPE Aruba Networking Foundational Care 5Y 4HR Onsite 5940 Fixed 48G SVC
H2SN2E	HPE Aruba Networking Foundational Care 5Y 4HR Onsite CDMR 5940 Fixed 48G SVC
H2SN7E	HPE Aruba Networking Foundational Care 5Y CTR 6-Hour 5940 Fixed 48G SVC
H2SN8E	HPE Aruba Networking Foundational Care 5Y CTR 6-Hour CDMR 5940 Fixed 48G SVC
H2SM0E	HPE Aruba Networking Foundational Care 5Y NBD Exch 5940 Fixed 48G SVC
H2SM4E	HPE Aruba Networking Foundational Care 5Y NBD Onsite 5940 Fixed 48G SVC
H2SM5E	HPE Aruba Networking Foundational Care 5Y NBD Onsite CDMR 5940 Fixed 48G SVC
UX120E	HPE Aruba Networking Networks 5810 5800 Series Switch Installation SVC
U8JL9E	HPE Aruba Networking Switch Startup SVC

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.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

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

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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.

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