HPE Networking Comware Switch Series 5900

What's new

- Introducing a new TAA-compliant top-of-rack switch with 48 × 1G Base-T, 4 × 10G SFP+, and 2 × 40G QSFP+ ports for secure and compliant deployments
- HPE Intelligent Resilient Fabric (IRF) technology provides greater resilience and scalability
- Cut-through with low-latency and varying wire speed performance
- Rich feature sets with IPv4 and IPv6 support Layer 2, Layer 3, and quality of service (QoS) / access control list (ACL) features.
- OpenFlow™ and NETCONF™ for automating manual tasks and improving service delivery
- Dual, redundant hot-pluggable power supplies with reversible airflow help reduce power consumption

Overview

The HPE Networking Comware Switch Series 5900 are high-density, low-latency top-of-rack (ToR) switches suited for deployment at the access layer and management network of medium-sized and large enterprise data centers.

To meet the increased demand for virtualization, scalability, and programmability, these switches provide high-performance switching with low latency and a user-friendly operating system (OS) Comware v7. HPE Intelligent Resilient Fabric (IRF) helps create simpler, flatter, and more agile networks by combining multiple physical switches into a logical device. Network and security features, coupled with dual, redundant hot-swappable power supplies, provide investment protection, reliability, and availability, and allow advanced chassis power management. These switches also provide network visibility through multi-vendor network management with HPE Intelligent Management Center (IMC).

Features

Low latency and multiple wire-speed for demanding applications in the data center environment

The HPE Networking Comware Switch Series 5900 provides multiple wirespeed 10/100/1000BASE-T and 1/10/40G fiber ports for high-performance and flexible deployments.

All ports support full L2/L3 features, IPv4/IPv6 dual stack, OpenFlow™, and NETCONF™ for high scalability and software-defined network (SDN) support.

HPE Intelligent Resilient Fabric (IRF) stacking enables uninterrupted L2 switching and L3 forwarding, reducing operational complexity.

High-Performance data center switching

The HPE Networking Comware Switch Series 5900 delivers 336 Gbps switching capacity for demanding applications.

It supports up to 250 Mpps throughput for data-intensive environments.

With low latency (under 1.5 µs for 10GbE), this switch series delivers increased network throughput. It also includes two 40GbE QSFP+ ports for blazing-fast uplinks.

It supports zero touch provisioning (ZTP) eliminating human errors and accelerating ROI.

Simplicity and lower TCO

The HPE Networking Comware Switch Series 5900 simplifies switch management by up to 88% with multi-unit IRF. [1]

Dual, redundant hot-swappable power supplies with reversible airflow (front-to-back/back-to-front) reduce power consumption.

It supports centralized configuration, compliance and policy management, monitoring, and troubleshooting with HPE Intelligent Management Center (IMC) for a consistent network management experience.

All operating system (OS) features are included with a single license per switch—no hidden costs.

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

Business agility and resilience

The HPE Networking Comware Switch Series 5900 achieves IRF convergence in less than 50 milliseconds (ms) for faster application response times.

It provides in-service software update (ISSU) for high availability with modular updates accomplished without downtime.

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

Automate tedious tasks with SDN and reclaim wasted resources.

Technical specifications	HPE Networking Comware Switch Series 5900
Power consumption	Maximum: 96W (Dual AC) Idle: 70W (Dual AC)
Heat dissipation	327.6 BTU/hr (345.63 kJ/hr)
Input voltage	Rated AC input voltage: 100–240 VAC Rated VDC input voltage range: 48–60 VDC (depending on power supply chosen)
Ports	48 x 10/100/1000BASE-T ports 4 x 1000/10000 SFP+ ports 2 x QSFP+ 40GbE ports 1 x RJ-45 console port 1 x Mini-USB port 1 x USB Type-A port 2 x Out-of-band management ports (one SFP GbE port and one copper port)
Latency	1 GE < 5 µs, 10 GE < 3 µs and 40 GE <1,2 µs (64-byte packets)
Routing/switching capacity	336Gbps
Switching capacity	336 Gbps
Stacking capabilities	IRF 9-members
Throughput	Up to 250 Mpps (64-byte packets)
Memory and processor	Flash: 1 GB Packet buffer size: 8 MB, 2 GB SDRAM
Power supply	2 power supply slots 1 minimum power supply required (ordered separately)
Operating temperature	23°F to 113°F (-5°C to 45°C)
Management features	HPE Intelligent Management Center (IMC) Command-line interface (CLI) Out-of-band management SNMP manager Telnet FTP
Warranty	Limited lifetime warranty. See the warranty duration.
Fans	2 fan tray slots Fan trays are not included with the switch and must be ordered separately. Use two fan trays with matching airflow direction for proper operation. Do not run the system with one fan tray for over 24 hours or without any fan tray for more than two minutes. Operate within 23°F (-5°C) to 113°F (45°C). Not following these guidelines may void your warranty.

[1] https://networktest.com/hpirf/hpirf1.pdf

SKU comparison

	HPE Networking Comware Switch 48-Port 1GBaseT 4XG 2QSFP+ 5901AF (JL864A)	HPE Networking Comware Switch 48p 10/100/1000BASE-T 4p SFP+ 10G 2p QSFP+ 40G TAA 5901AF (S3Q88A)
Differentiator	Non-TAA model	TAA certified
Power consumption	96 W (Dual AC)	Maximum: 96W (Dual AC) Idle: 70W (Dual AC)
Heat dissipation	327.6 BTU/hr (345.63 kJ/hr)	
Input voltage	100 to 240 VAC V rated -48 VDC to -60 VDC V rated (Depending on power supply chosen)	Rated AC input voltage: 100–240 VAC Rated VDC input voltage range: 48–60 VDC (depending on power supply chosen)
Ports	(48) autosensing 10/100/1000 ports, Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only, (4) fixed 1000/10000 SFP+ ports, (2) QSFP+ 40GbE ports	48 x 10/100/1000BASE-T ports 4 x 1000/10000 SFP+ ports 2 x QSFP+ 40GbE ports 1 x RJ-45 console port 1 x Mini-USB port 1 x USB Type-A port 2 x Out-of-band management ports (one SFP GbE port and one copper port)
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Switching capacity	336 Gbps	
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Throughput	Up to 250 Mpps (64-byte packets)	
Memory and processor	1 GB flash; Packet buffer size: 8 MB, 2 GB SDRAM	Flash: 1 GB Packet buffer size: 8 MB, 2 GB SDRAM
Power supply	2 power supply slots 1 minimum power supply required (ordered separately)	
Operating temperature	23°F to 113°F (-5°C to 45°C)	
Management features	HPE Intelligent Management Center (IMC) Command-line interface (CLI) Out-of-band management SNMP manager Telnet FTP	
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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
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
JD366B	HPE Networking X361 150W 48-60VDC to 12VDC Power Supply
JD362B	HPE Networking X361 150W 100-240VAC to 12VDC 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
JL287A	HPE Networking X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable
JL288A	HPE Networking X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable
JL289A	HPE Networking X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable
JD099B	HPE Networking X120 1G SFP LC BX 10-D Transceiver
JD098B	HPE Networking X120 1G SFP LC BX 10-U Transceiver
JD103A	HPE Networking X120 1G SFP LC LH100 Transceiver
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
JL738A	HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver
JL737A	HPE Networking X130 10G SFP+ LC BiDi 10km-Uplink Transceiver
JL740A	HPE Networking X130 10G SFP+ LC BiDi 40km-Downlink Transceiver
JL739A	HPE Networking X130 10G SFP+ LC BiDi 40km-Uplink Transceiver
JG234A	HPE Networking X130 10G SFP+ LC ER 40km Transceiver
JG915A	HPE Networking X130 10G SFP+ LC LH 80km 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

Related Services

The following services are available for these series:

SKU	Description
Technology Services	
U1YQ4E	HPE Aruba Networking Foundational Care 1Y 4HR Exch 59xxAF 48 2QSFP Switch SVC
U3PQ7E	HPE Aruba Networking Foundational Care 1Y 4HR Onsite 59xxAF 48 2QSFP Switch SVC
U3QC1E	HPE Aruba Networking Foundational Care 1Y CTR 6-Hour 59xxAF 48 2QSFP Switch SVC
U3QP6E	HPE Aruba Networking Foundational Care 1Y NBD Exch 59xxAF 48 2QSFP Switch SVC
U4BM2E	HPE Aruba Networking Foundational Care 1Y NBD Onsite 59xxAF 48 2QSFP Switch SVC
U3NE8E	HPE Aruba Networking Foundational Care 3Y 4HR Exch 59xxAF 48 2QSFP Switch SVC
U3GA3E	HPE Aruba Networking Foundational Care 3Y 4HR Onsite 59xxAF 48 2QSFP Switch SVC
U4FW9E	HPE Aruba Networking Foundational Care 3Y 4HR Onsite CDMR 59xxAF 48 2QSFP Switch SVC
U3JH0E	HPE Aruba Networking Foundational Care 3Y CTR 6-Hour 59xxAF 48 2QSFP Switch SVC
U4GC5E	HPE Aruba Networking Foundational Care 3Y CTR 6-Hour CDMR 59xxAF 48 2QSFP Switch SVC
U3LT9E	HPE Aruba Networking Foundational Care 3Y NBD Exch 59xxAF 48 2QSFP Switch SVC
U3WV8E	HPE Aruba Networking Foundational Care 3Y NBD Onsite 59xxAF 48 2QSFP Switch SVC
U3VE7E	HPE Aruba Networking Foundational Care 3Y NBD Onsite CDMR 59xxAF 48 2QSFP Switch SVC
U3PD2E	HPE Aruba Networking Foundational Care 5Y 4HR Exch 59xxAF 48 2QSFP Switch SVC

U3GX4E	HPE Aruba Networking Foundational Care 5Y 4HR Onsite 59xxAF 48 2QSFP Switch SVC
U4GA6E	HPE Aruba Networking Foundational Care 5Y 4HR Onsite CDMR 59xxAF 48 2QSFP Switch SVC
U3KE3E	HPE Aruba Networking Foundational Care 5Y CTR 6-Hour 59xxAF 48 2QSFP Switch SVC
U4GG4E	HPE Aruba Networking Foundational Care 5Y CTR 6-Hour CDMR 59xxAF 48 2QSFP Switch SVC
U3MT3E	HPE Aruba Networking Foundational Care 5Y NBD Exch 59xxAF 48 2QSFP Switch SVC
U3YC6E	HPE Aruba Networking Foundational Care 5Y NBD Onsite 59xxAF 48 2QSFP Switch SVC
U3WE4E	HPE Aruba Networking Foundational Care 5Y NBD Onsite CDMR 59xxAF 48 2QSFP Switch 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 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.

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PSN5221896SEEN, September, 2026.

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