Data sheet

HPE Networking Comware Switch Series 5600 HI



What's new

- Multigigabit 100M/1/2.5/5/10G options with PoE8. Granular, higher throughput, and switching capacity of up to 600 Mpps and 1440 Gbps, higher traffic rates and improved network performance
- DRNI combines multiple physical switches into one virtual distributed-relay system for doubling aggregate bandwidth, faster forwarding, resiliency, and high availability
- Industry-standard MACsec AES 256 support, higher MAC port binding, AAA authentications (including RADIUS authentication), and link group capacity for improved end-to-end network security
- iNQA measures network packet loss performance and provides visibility into real-time application performance and health
- Smart management center (SmartMC) provides centralized network management and maintains

Overview

The HPE Networking Comware Switch Series 5600 HI delivers superior performance using multigigabit, PoE8, MACsec, AES 256 encryption, link flexibility, and scalability at the access layer of medium and large enterprise campus networks. Additional modules can be included for increased capacity. This series offers improved resiliency with DRNI and IRF, better reliability and performance in user quality of service (QoS), enhanced security with hardware-based MACsec and AAA authentication, impressive efficiency with dual redundant power supplies, embedded network management using smart management center (SmartMC) and enhanced network visibility using IMC.

dispersed network edge devices at no additional cost

- VXLAN and EVPN enable both isolation and greater scalability of L2/L3 overlay services and multicast

Features

Multigigabit PoE8 High Density Switches

HPE Networking Comware Switch Series 5600 HI provides medium and large enterprise networks with 24/48 port 1G/2.5G/5G/10GBASE-T connectivity options, thereby resulting in high density and flexibility.

90W PoE8 supports a wide variety of applications such as virtual desktop infrastructure (VDI) or Internet of Things (IoT).

It delivers up to 600 Mpps of packet forwarding rate and up to 1440 Gbps of port switching capacity for improved network performance.

It supports jumbo frames with a frame size of up to 10000 bytes while improving the performance of large data transfers.

It supports equal-cost multipath that enables multiple equal-cost links in a routing environment to increase link redundancy and scale bandwidth.

Highly Available and Scalable Access Layer Switches

The HPE Networking Comware Switch Series 5600 HI uses IRF that supports virtualization of up to nine physical switches into one logical device for simpler, flatter, and more agile networks.

DRNI, an IEEE standard-based solution, enables link aggregation from multiple switches to implement device-level link backup for node redundancy. DRNI also simplifies network topology by virtualizing two physical devices into a logical device.

Dual, redundant, and hot-swappable power supplies maintain a dynamic and highly available network.

Virtual routing redundancy protocol (VRRP) is available where groups of two routers can dynamically back each other up to create highly available routed environments.

VXLAN and EVPN allow greater flexibility to integrate into existing networks, better scalability without redesigning the underlay network, enhanced security to restrict attacks, and improved performance specially in spine-leaf architectures.

Rich QoS Features

The HPE Networking Comware Switch Series 5600 HI supports operations, administration, and maintenance (OAM), MPLS, VPLS, and In-Service Software Upgrade (ISSU) for business continuity and improving manageability.

Advanced classifier based quality of service (QoS) is available to group traffic using multiple match criteria based on Layer 2 and 3 information; it applies QoS policies such as setting priority level and rate limit to selected traffic on a port, VLAN, or the entire switch.

Extensive traffic prioritization with strict priority (SP) queuing, weighted round robin (WRR), weighted deficit round robin (WDRR), SP+WDRR, and SP+WRR are supported.

Broadcast control and limitation of broadcast traffic rate can reduce unwanted network traffic.

Comprehensive Security and Simplified Management

HPE Networking Comware Switch Series 5600 HI supports AAA authentication (including RADIUS authentication) and dynamic or static binding of user identifiers such as user account, IP address, MAC address, VLAN, and port number for increased security.

It supports methods including 802.1X and MAC authentication and encryption for greater device security and policy-driven application authentication, along with per-user access control Lists (ACLs) that provide identity-driven security and access control.

Dynamic ARP protection with functions such as ARP detection and ARP packet validation that block broadcasts from unauthorized hosts, prevent eavesdropping or theft of network data.

Single-pane management via HPE Intelligent Management Center (IMC) provides a consistent network experience and OpenFlow enables integration with mainstream cloud platforms or a third-party controller for flexible network customization and automated management.

Smart Management Center (SmartMC) an embedded network management tool, supports a web-based GUI to simplify operations and facilitate centralized management at no additional cost. It offers features such as configuration backup, software version management, and seamless switch replacement.

Technical specifications	HPE Networking Comware Switch Series 5600 HI
Power consumption	Maximum 2385W (including 2010W of PoE)
Heat dissipation	Ranges from 134 BTU/hour to 8137 BTU/hour, depending on power supply configuration
Input voltage	AC: 90 VAC to 264 VAC, DC: -36 VDC to 72 VDC
Ports	Up to 48 x 100M/1G/2.5G/5G/10GBASE-T (PoE8) + 4 x QSFP Plus + 1 expansion slot
Latency	< 5 us (1000Mb), < 3 us (10Gbps) <1.2 us (40Gbps)
Stacking capabilities	9
Throughput	Up to 600 Mpps
Memory and processor	Up to 2 GB SDRAM packet buffer size: 6 MB, 1G flash
Power supply	2 Power Supply Slots (Min1/Max2), JG544A (720W), JG545A (1110W)
PoE capability	90W PoE power per port
Operating temperature	23°F to 113°F (–5°C to 45°C)
Management features	This switch series includes Smart Management Center (SmartMC) at no additional cost and combined with HPE Intelligent Management Center (IMC), provides both embedded network management and enhanced network visibility.
Warranty	Limited lifetime warranty. See the warranty duration.

SKU comparison

	HPE Networking Comware Switch 24P Multigigabit 100M/1G/2.5G/5G/10GBase-T PoE8 1 Slot 5600HI (S0S34A)	HPE Networking Comware Switch 48P 100M/1G/2.5G/5G/10GBase-T PoE8 4QSFP+ 1 Slot 5600HI (S0S35A)
Differentiator	24 fixed 100M/1G/2.5G/5G/10GBase-T UPoE Ports 1 port expansion module slot 2 Power Supply Slots (Min1/Max2) Including 2 Fan Trays 1U - Height	48 fixed 100M/1G/2.5G/5G/10GBase-T UPoE Ports min=0 \ max=4 QSFP+ Transcievers 1 port expansion module slot 2 Power Supply Slots (Min1/Max2) Including 3 Fan Trays 1U - Height
Power consumption	Dual AC 2385W	Dual AC 2333W
Heat dissipation	Ranges from 134 BTU/hour to 8137 BTU/hour depending on power supply configuration	Ranges from 221 BTU/ hour to 7960 BTU/ hour depending on power supply configuration
Input voltage	AC: 90 VAC to 264 VAC, DC: -36 VDC to 72 VDC	
Ports	24 x 100M/1G/2.5G/5G/10GBASE-T (PoE8) + 1 expansion slot	48 x 100M/1G/2.5G/5G/10GBASE-T (PoE8) + 4 x QSFP Plus + 1 expansion slot
Latency	< 5 us (1000Mb), < 3 us (10Gbps) <1.2 us (40Gbps)	
Stacking capabilities	9	
Throughput	240 Mpps	600 Mpps
Memory and processor	2 GB SDRAM; packet buffer size: 3 MB, 1G flash	2 GB SDRAM; packet buffer size: 6 MB, 1G flash
Power supply	2 Power Supply Slots (Min1/Max2), JG544A (720W), JG545A (1110W)	
PoE capability	90W PoE power per port	
Operating temperature	23°F to 113°F (–5°C to 45°C)	
Management features	This switch series includes Smart Management Center (SmartMC) at no additional cost and combined with HPE Intelligent Management Center (IMC), provides both embedded network management and enhanced network visibility.	
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Related Services

The following services are available for these series:

SKU	Description
Technology Services	
H68E1E	HPE Aruba Networking Foundational Care 1Y 4HR Exch 5600HI 24P SVC
H68M3E	HPE Aruba Networking Foundational Care 1Y 4HR Exch 5600HI 48P SVC
H68E4E	HPE Aruba Networking Foundational Care 1Y 4HR Onsite 5600HI 24P SVC
H68M6E	HPE Aruba Networking Foundational Care 1Y 4HR Onsite 5600HI 48P SVC
H68E5E	HPE Aruba Networking Foundational Care 1Y 24x7 CDMR 5600HI 24P SVC
H68M7E	HPE Aruba Networking Foundational Care 1Y 24x7 CDMR 5600HI 48P SVC
H68E6E	HPE Aruba Networking Foundational Care 1Y CTR 5600HI 24P SVC
H68M8E	HPE Aruba Networking Foundational Care 1Y CTR 5600HI 48P SVC
H68E7E	HPE Aruba Networking Foundational Care 1Y CTR CDMR 5600HI 24P SVC
H68M9E	HPE Aruba Networking Foundational Care 1Y CTR CDMR 5600HI 48P SVC
H68E2E	HPE Aruba Networking Foundational Care 1Y NBD 5600HI 24P SVC
H68M4E	HPE Aruba Networking Foundational Care 1Y NBD 5600HI 48P SVC
H68E3E	HPE Aruba Networking Foundational Care 1Y NBD CDMR 5600HI 24P SVC
H68M5E	HPE Aruba Networking Foundational Care 1Y NBD CDMR 5600HI 48P SVC
H68E0E	HPE Aruba Networking Foundational Care 1Y NBD Exch 5600HI 24P SVC
H68M2E	HPE Aruba Networking Foundational Care 1Y NBD Exch 5600HI 48P SVC
H68E9E	HPE Aruba Networking Foundational Care 3Y 4HR Exch 5600HI 24P SVC
H68N1E	HPE Aruba Networking Foundational Care 3Y 4HR Exch 5600HI 48P SVC
H68F3E	HPE Aruba Networking Foundational Care 3Y 4HR Onsite 5600HI 24P SVC
H68N5E	HPE Aruba Networking Foundational Care 3Y 4HR Onsite 5600HI 48P SVC
H68F4E	HPE Aruba Networking Foundational Care 3Y 24x7 CDMR 5600HI 24P SVC
H68N6E	HPE Aruba Networking Foundational Care 3Y 24x7 CDMR 5600HI 48P SVC
H68F5E	HPE Aruba Networking Foundational Care 3Y CTR 5600HI 24P SVC
H68N7E	HPE Aruba Networking Foundational Care 3Y CTR 5600HI 48P SVC
H68F6E	HPE Aruba Networking Foundational Care 3Y CTR CDMR 5600HI 24P SVC
H68N8E	HPE Aruba Networking Foundational Care 3Y CTR CDMR 5600HI 48P SVC
H68F0E	HPE Aruba Networking Foundational Care 3Y NBD 5600HI 24P SVC
H68N2E	HPE Aruba Networking Foundational Care 3Y NBD 5600HI 48P SVC
H68F1E	HPE Aruba Networking Foundational Care 3Y NBD CDMR 5600HI 24P SVC
H68N3E	HPE Aruba Networking Foundational Care 3Y NBD CDMR 5600HI 48P SVC

H68E8E	HPE Aruba Networking Foundational Care 3Y NBD Exch 5600HI 24P SVC
H68N0E	HPE Aruba Networking Foundational Care 3Y NBD Exch 5600HI 48P SVC
H68G7E	HPE Aruba Networking Foundational Care 5Y 4HR Exch 5600HI 24P SVC
H68P9E	HPE Aruba Networking Foundational Care 5Y 4HR Exch 5600HI 48P SVC
H68H1E	HPE Aruba Networking Foundational Care 5Y 4HR Onsite 5600HI 24P SVC
H68Q3E	HPE Aruba Networking Foundational Care 5Y 4HR Onsite 5600HI 48P SVC
H68H2E	HPE Aruba Networking Foundational Care 5Y 24x7 CDMR 5600HI 24P SVC
H68Q4E	HPE Aruba Networking Foundational Care 5Y 24x7 CDMR 5600HI 48P SVC
H68H3E	HPE Aruba Networking Foundational Care 5Y CTR 5600HI 24P SVC
H68Q5E	HPE Aruba Networking Foundational Care 5Y CTR 5600HI 48P SVC
H68H4E	HPE Aruba Networking Foundational Care 5Y CTR CDMR 5600HI 24P SVC
H68Q6E	HPE Aruba Networking Foundational Care 5Y CTR CDMR 5600HI 48P SVC
H68G8E	HPE Aruba Networking Foundational Care 5Y NBD 5600HI 24P SVC
H68Q0E	HPE Aruba Networking Foundational Care 5Y NBD 5600HI 48P SVC
H68G9E	HPE Aruba Networking Foundational Care 5Y NBD CDMR 5600HI 24P SVC
H68Q1E	HPE Aruba Networking Foundational Care 5Y NBD CDMR 5600HI 48P SVC
H68G6E	HPE Aruba Networking Foundational Care 5Y NBD Exch 5600HI 24P SVC
H68P8E	HPE Aruba Networking Foundational Care 5Y NBD Exch 5600HI 48P 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.

Image may differ from the actual product.

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