

# HPE Networking Comware Switch Series 5520 HI



## What's new

- Larger MAC tables (up to 64K), Longest Prefix Match (LPM), switching capacity of up to 336 Gbps and throughput of upto 180 Mpps enable faster switching.
- Smart Management Center (SmartMC) provides centralized network management and maintains dispersed network edge devices at no additional cost.
- Virtual Extensible LAN (VXLAN) and Ethernet VPN (EVPN) enable both isolation and greater scalability of L2/L3 overlay services and multicast.
- New made in USA TAA-compliant SKUs offer heightened security via manual and automated source code analysis to address common

## Overview

The HPE Networking Comware Switch Series 5520 HI delivers superior performance, high availability and manageability with advanced features at the access and aggregation layer of medium and large enterprise networks.

These switches deliver faster performance and advanced L3 features with support for larger ARP/MAC tables and Longest Prefix Match (LPM). VXLAN and EVPN enable greater scalability. Support for Virtual Router Redundancy Protocol (VRRP), Equal-Cost Multipath (ECMP) and Bi-directional Forwarding Detection (BFD) provide resiliency. Intelligent Resilient framework (IRF) ensures high availability. Support for IPv4/IPv6, OpenFlow, and MPLS/VPLS features for investment protection with an easy transition from IPv4 to IPv6 networks.

These switches also include SmartMC at no additional cost, and when combined with Intelligent Management Center (IMC), it provides both embedded network management and enhanced network visibility.

programming issues, easing concerns about 'made in China' products.

## Features

### Powerful Performance

The HPE Networking Comware Switch Series 5520 HI provides medium and large enterprise networks with increased processing power, Larger MAC size tables, and Longest Prefix Match (LPM) to improve network performance and scalability by enabling multipathing.

Non-blocking architecture delivers up to 336 Gbps of wire-speed switching and up to 180 Mpps throughput.

Supports Equal-Cost Multipath that enables multiple equal-cost links in a routing environment to increase link redundancy and scale bandwidth.

### Highly Resilient and Scalable Access Layer Switches

The HPE Networking Comware Switch Series 5520 HI uses Intelligent Resilient Framework (IRF) that supports virtualization of up to nine physical switches into one logical device for simpler, flatter, and more agile networks.

Delivers outstanding resiliency, security, and multiservice support capabilities for traditional large enterprise networks. It supports advanced technologies such as OAM, RRPP, BFD, Multi-level QoS, MPLS, and VPLS.

Dual, redundant, hot-swappable power supplies maintain a dynamic network that delivers up to 1440 Watts of PoE+ for powered cameras, phones, and wireless access points.

Supports Virtual Routing Redundancy Protocol (VRRP) where groups of two routers can dynamically back each other up to create highly available routed environments.

Virtual Extensible LAN (VXLAN) and Ethernet VPN (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.

### Robust Quality of Service (QoS)

The 5520 HI Series supports advanced classifier-based QoS which groups 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.

Provides extensive traffic prioritization with strict priority (SP) queuing, weighted round robin (WRR), weighted fair queuing (WFQ), weighted random early discard (WRED), weighted deficit round robin (WDRR), SP+WDRR, and SP+WFQ.

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

### Comprehensive Security and Simplified Management

The 5520 HI Series supports flexible authentication methods including 802.1X and MAC Authentication and Encryption for greater device security and policy-driven application authentication. Per-user Access Control Lists (ACLs) 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.

Centralized security policy management and network protection with HPE Intelligent Management Center (IMC), which leverages End User Admission Domination (EAD) integrated security policies, network access control and access right control policies for a comprehensive integrated security system.

Supports SmartMC, an embedded network management tool, with 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 5520 HI
<b>Power consumption</b>	150W (maximum)
<b>Heat dissipation</b>	Ranges from 81 BTU/hr to 324 BTU/hr and 81 BTU/hr to 416 BTU/hr depending on power supply configuration
<b>Input voltage</b>	90 to 264 VAC and -36 to -72 VDC
<b>Ports</b>	(48) 10/100/1000 BASE-T ports and (4) SFP+ ports maximum OR (16) 10/100/1000 BASE-T ports (8) combo SFP or RJ45 ports (4) SFP+ ports OR (16) BASE-X SFP (8) combo SFP or RJ45 ports (4) SFP+ ports (1) port expansion module slot PoE+ available, depending on model
<b>Latency</b>	1000 Mb Latency: < 5 μs 10 Gbps Latency: < 3 μs
<b>Routing/switching capacity</b>	336 Gbps maximum, depending on model
<b>Switching capacity</b>	From 288 Gbps to 336 Gbps depending on the model
<b>Stacking capabilities</b>	IRF 9 switches
<b>Throughput</b>	180 Mpps maximum
<b>Memory and processor</b>	2 GB SDRAM Packet buffer size: 4 MB, 512 MB flash
<b>Management features</b>	IMC - Intelligent Management Center Command-line interface SNMP manager
<b>Warranty</b>	Limited lifetime warranty. See the <a href="#">warranty duration</a> guide.

## SKU comparison

	<b>HPE Networking Comware Switch 24 10/100/1000BASE-T 4 10G/1G BASE-X SFP+ 1 Exp 2 Fan Tray 2 PS 5520HI (R8M28A)</b>	<b>HPE Networking Comware Switch 24 SFP 4 10G/1G BASE-X SFP+ 1 Exp slot 2 Fan Tray 2 PS 5520HI (R8M27A)</b>	<b>HPE Networking Comware Switch 24p 10/100/1000BASE-T 4p SFP+ 1 Exp 2 PS Slot 5520HI (R8M25A)</b>
<b>Differentiator</b>	Layer 3 switch with 24 10/100/1000 PoE+ ports, 4 1/10GbE SFP+ and 1 expansion module slots supports Intelligent Resilient Framework (IRF) virtual fabric and dual hot pluggable power supplies	Layer 3 switch with 16 100/1000 BASE-X SFP ports, 8 combo SFP or RJ45, 4 1/10GbE SFP+ and 1 expansion module slots supports Intelligent Resilient Framework (IRF) virtual fabric and dual hot pluggable power supplies	Layer 3 switch with 16 10/100/1000 BASE-T ports, 8 combo SFP or RJ45 ports, 4 1/10GbE SFP+ and 1 expansion module slots Supports Intelligent Resilient Framework (IRF) virtual fabric and dual hot pluggable power supplies
<b>Power consumption</b>	1110W (maximum)	150W (maximum)	150W (maximum)
<b>Heat dissipation</b>	Ranges from 105 BTU/hr to 3166 BTU/hr depending on power supply configuration	Ranges from 81 BTU/hr to 416 BTU/hr depending on power supply configuration	Ranges from 81 BTU/hr to 324BTU/hr depending on power supply configuration
<b>Input voltage</b>	90 to - 264 VAC and -36 to - 72 VDC	90 to - 264 VAC and -36 to - 72 VDC	90 to - 264 VAC and -36 to - 72 VDC
<b>Ports</b>	(24) RJ-45 autosensing 100/1000 BASE-T ports (PoE+); Duplex: Ports 1-24 support 10BASE-T/100BASE-TX, 1000BASE-T (full only), (4) SFP+ 1/10GbE ports, (1) port expansion module slot.	(16) fixed Gigabit Ethernet SFP ports (8) SFP dual-personality ports - 10/100/1000 BASE-T RJ-45 or 100/1000BASE-X Combo Ports (4) SFP+ 1/10GbE ports, (1) port expansion module slot.	(16) 10/100/1000BASE-T RJ-45 ports (8) dual-personality ports - 10/100/1000BASE-T RJ-45 or 100/1000BASE-X Combo Ports; Duplex: Ports 1-24 support 10BASE-T/100BASE-TX, 1000BASE-T (full only), (4) SFP+ 1/10GbE ports, (1) port expansion module slot.
<b>Latency</b>	1000 Mb Latency: < 5 $\mu$ s 10 Gbps Latency: < 3 $\mu$ s	1000 Mb Latency: < 5 $\mu$ s 10 Gbps Latency: < 3 $\mu$ s	1000 Mb Latency: < 5 $\mu$ s 10 Gbps Latency: < 3 $\mu$ s
<b>Routing/switching capacity</b>	288 Gbps	288 Gbps	288 Gbps
<b>Switching capacity</b>	From 288 Gbps to 336 Gbps depending on the model	288 Gbps	288 Gbps
<b>Stacking capabilities</b>	IRF 9 switches	IRF 9 switches	IRF 9 switches
<b>Throughput</b>	up to 180 Mpps	up to 180 Mpps	up to 180 Mpps
<b>Memory and processor</b>	2 GB SDRAM; Packet buffer size: 4 MB, 512 MB flash	2 GB SDRAM; Packet buffer size: 4 MB, 512 MB flash	2 GB SDRAM; Packet buffer size: 4 MB, 512 MB flash
<b>PoE capability</b>	720W PoE+		
<b>Management features</b>	IMC - Intelligent Management Center; Command-line interface; SNMP manager	IMC - Intelligent Management Center; Command-line interface; SNMP manager	IMC - Intelligent Management Center; Command-line interface; SNMP manager
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration guide.	Limited lifetime warranty. See the warranty duration guide.	Limited lifetime warranty. See the warranty duration guide.

	<b>HPE Networking Comware Switch 24p 10/100/1000BASE-T 4p SFP+ 1G/10G 1-slot 2xFan 2xPSU TAA 5520HI (S3K91A)</b>	<b>HPE Networking Comware Switch 24p SFP 1G 4p SFP+ 1G/10G 1-slot 2xFan 2xPSU TAA 5520HI (S3K93A)</b>	<b>HPE Networking Comware Switch 48 10/100/1000BASE-T 4 10G/1G BASE-X SFP+ 1 Exp 2 Fan Tray 2 PS 5520HI (R8M29A)</b>
<b>Differentiator</b>	Layer 3 switch with 16 10/100/1000 BASE-T ports, 8 combo SFP or RJ45 ports, 4 1/10GbE SFP+ and 1 expansion module slots Supports Intelligent Resilient Framework (IRF) virtual fabric and dual hot pluggable power supplies	Layer 3 switch with 16 100/1000 BASE-X SFP ports, 8 combo SFP or RJ45, 4 1/10GbE SFP+ and 1 expansion module slots supports Intelligent Resilient Framework (IRF) virtual fabric and dual hot pluggable power supplies	Layer 3 switch with 48 10/100/1000 PoE+ ports 4 1/10GbE SFP+ and 1 expansion module slots supports Intelligent Resilient Framework (IRF) virtual fabric and dual hot pluggable power supplies
<b>Power consumption</b>	150W (maximum)	150W (maximum)	1110W (maximum)
<b>Heat dissipation</b>	Ranges from 81 BTU/hr to 324BTU/hr depending on power supply configuration	Ranges from 81 BTU/hr to 416 BTU/hr depending on power supply configuration	Ranges from 112 BTU/hr to 5943 BTU/hr depending on power supply configuration
<b>Input voltage</b>	90 to 264 VAC and -36 to -72 VDC	90 to 264 VAC and -36 to -72 VDC	90 to -264 VAC and -36 to -72 VDC
<b>Ports</b>	(16) 10/100/1000BASE-T RJ-45 ports (8) dual-personality ports - 10/100/1000BASE-T RJ-45 or 100/1000BASE-X Combo Ports; Duplex: Ports 1-24 support 10BASE-T/100BASE-TX, 1000BASE-T (full only), (4) SFP+ 1/10GbE ports, (1) port expansion module slot.	(16) fixed Gigabit Ethernet SFP ports (8) SFP dual-personality ports - 10/100/1000 BASE-T RJ-45 or 100/1000BASE-X Combo Ports (4) SFP+ 1/10GbE ports, (1) port expansion module slot.	(48) RJ-45 autosensing 10/100/1000 BASE-T ports( PoE+); Duplex: Ports 1-48 support 10BASE-T/100BASE-TX, 1000BASE-T (full only), (4) SFP+ 1/10GbE ports, (1) port expansion module slot.
<b>Latency</b>	1000 Mb Latency: < 5 μs 10 Gbps Latency: < 3 μs	1000 Mb Latency: < 5 μs 10 Gbps Latency: < 3 μs	1000 Mb Latency: < 5 μs 10 Gbps Latency: < 3 μs
<b>Routing/switching capacity</b>	288 Gbps	288 Gbps	336 Gbps
<b>Switching capacity</b>	288 Gbps	288 Gbps	From 288 Gbps to 336 Gbps depending on the model
<b>Stacking capabilities</b>	IRF 9 switches	IRF 9 switches	IRF 9 switches
<b>Throughput</b>	180 Mpps maximum	180 Mpps maximum	up to 180 Mpps
<b>Memory and processor</b>	2 GB SDRAM; Packet buffer size: 4 MB, 512 MB flash	2 GB SDRAM; Packet buffer size: 4 MB, 512 MB flash	2 GB SDRAM; Packet buffer size: 4 MB, 512 MB flash
<b>PoE capability</b>			1440W PoE+
<b>Management features</b>	IMC - Intelligent Management Center; Command-line interface; SNMP manager	IMC - Intelligent Management Center; Command-line interface; SNMP manager	IMC - Intelligent Management Center; Command-line interface; SNMP manager
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration guide.	Limited lifetime warranty. See the warranty duration guide.	Limited lifetime warranty. See the warranty duration guide.

	HPE Networking Comware Switch 48G 10/100/1000BASE-T 4 10G/1G BASE-X 5520HI (R8M26A)	HPE Networking Comware Switch 48p 10/100/1000BASE-T 4p SFP+ 1G/10G 1-slot 2xFan 2xPSU TAA 5520HI (S3K92A)
<b>Differentiator</b>	Layer 3 switch with 48 10/100/1000 BASE-T ports, 4 1/10GbE SFP+ and 1 expansion module slots supports Intelligent Resilient Framework (IRF) virtual fabric and dual hot pluggable power supplies	Layer 3 switch with 48 10/100/1000 BASE-T ports, 4 1/10GbE SFP+ and 1 expansion module slots supports Intelligent Resilient Framework (IRF) virtual fabric and dual hot pluggable power supplies
<b>Power consumption</b>	150W (maximum)	150W (maximum)
<b>Heat dissipation</b>	Ranges from 81 BTU/hr to 327BTU/hr depending on power supply configuration	Ranges from 81 BTU/hr to 327BTU/hr depending on power supply configuration
<b>Input voltage</b>	90 to - 264 VAC and -36 to -72 VDC	90 to 264 VAC and -36 to -72 VDC
<b>Ports</b>	(48) RJ-45 autosensing 10/100/1000 BASE-T ports; Duplex: Ports 1-48 support 10BASE-T/100BASE-TX, 1000BASE-T (full only), (4) SFP+ 1/10GbE ports, (1) port expansion module slot.	(48) RJ-45 autosensing 10/100/1000 BASE-T ports; Duplex: Ports 1-48 support 10BASE-T/100BASE-TX, 1000BASE-T (full only), (4) SFP+ 1/10GbE ports, (1) port expansion module slot.
<b>Latency</b>	1000 Mb Latency: < 5 $\mu$ s 10 Gbps Latency: < 3 $\mu$ s	1000 Mb Latency: < 5 $\mu$ s 10 Gbps Latency: < 3 $\mu$ s
<b>Routing/switching capacity</b>	336 Gbps	336 Gbps
<b>Switching capacity</b>	336 Gbps	336 Gbps
<b>Stacking capabilities</b>	IRF 9 switches	IRF 9 switches
<b>Throughput</b>	up to 180 Mpps	180 Mpps maximum
<b>Memory and processor</b>	2 GB SDRAM; Packet buffer size: 4 MB, 512 MB flash	2 GB SDRAM; Packet buffer size: 4 MB, 512 MB flash
<b>Management features</b>	IMC - Intelligent Management Center; Command-line interface; SNMP manager	IMC - Intelligent Management Center; Command-line interface; SNMP manager
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration guide.	Limited lifetime warranty. See the warranty duration guide.

# 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.

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- 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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[PSN1013625618IDEN](#), June, 2026.

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