

# HPE Networking Comware Switch Series 5520 HI

**HPE Networking Comware Switch 24p 10/100/1000BASE-T 4p SFP+ 1 Exp 2 PS Slot 5520HI (R8M25A)**



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

## 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.

# 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 24p 10/100/1000BASE-T 4p SFP+ 1 Exp 2 PS Slot 5520HI
Product Number	R8M25A
Differentiator	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
Power consumption	150W (maximum)
Heat dissipation	Ranges from 81 BTU/hr to 324BTU/hr depending on power supply configuration
Input voltage	90 to - 264 VAC and -36 to -72 VDC
Ports	(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.
Latency	1000 Mb Latency: < 5 $\mu$ s 10 Gbps Latency: < 3 $\mu$ s
Routing/switching capacity	288 Gbps
Switching capacity	288 Gbps
Stacking capabilities	IRF 9 switches
Throughput	up to 180 Mpps
Memory and processor	2 GB SDRAM Packet buffer size: 4 MB, 512 MB flash
Management features	IMC - Intelligent Management Center Command-line interface SNMP manager
Weight	$\leq$ 6.7kg
Product dimensions (metric)	44 X 36 X 4.36 cm
Warranty	Limited lifetime warranty. See the warranty duration guide.

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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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