# HPE FlexNetwork 5520HI 24 10/100/1000BASE-T 4 10G/1G BASE-X SFP+ 1 Exp 2 Fan Tray 2 PS Switch (R8M28A)



## 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.

## Overview

The HPE FlexNetwork 5520 HI Switch series 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 FlexNetwork 5520 HI Switch series 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 FlexNetwork 5520 HI Switch series 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 HPE FlexNetwork 5520 HI  Switch 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

HPE FlexNetwork 5520 HI Switch 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

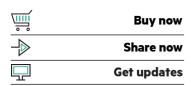### HPE FlexNetwork 5520HI 24 10/100/1000BASE-T 4 10G/1G BASE-X SFP+ 1 Exp 2 Fan Tray 2 PS Switch

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|---|---|
| **Product Number** | R8M28A |
| **Differentiator** | 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 |
| **Ports** | (24) RJ-45 autosensing 100/1000 BASE-T ports( PoE+)<br>Duplex: Ports 1-24 support 10BASE-T/100BASE-TX, 1000BASE-T (full only), (4) SFP+ 1/10GbE ports, (1) port expansion module slot. |
| **Memory and processor** | 2 GB SDRAM<br>Packet buffer size: 4 MB, 512 MB flash |
| **Latency** | 1000 Mb Latency: < 5 µs 10 Gbps Latency: < 3 µs |
| **Throughput** | up to 180 Mpps |
| **Routing/switching capacity** | 288 Gbps |
| **PoE capability** | 720W PoE+ |
| **Stacking capabilities** | IRF 9 switches |
| **Management features** | IMC - Intelligent Management Center<br>Command-line interface<br>SNMP manager |
| **Input voltage** | 90 to - 264 VAC and -36 to -72 VDC |
| **Power consumption** | 1110W (maximum) |
| **Heat dissipation** | Ranges from 105 BTU/hr to 3166 BTU/hr depending on power supply configuration |
| **Product dimensions (metric)** | 44 X 46 X 4.36 cm |
| **Weight** | ?9.2kg |

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