

HPE FlexNetwork 5600 HI Switch Series

Fixed Port L3 Managed Ethernet Switches



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

Overview

The HPE FlexNetwork 5600 HI Switch Series 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 MC and enhanced network visibility using IMC.

improved end-to-end network security.

- iNQA measures network packet loss performance and provides visibility into real-time application performance and health.
- SmartMC provides centralized network management and maintains 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 FlexNetwork 5600 HI Switch Series 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).

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

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

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

Advanced classifier based 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 FlexNetwork 5600 HI Switch Series 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.

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 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.

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 FlexNetwork 5600 HI Switch Series

Ports	Up to 48 x 100M/1G/2.5G/5G/10GBASE-T (PoE8) + 4 x QSFP Plus + 1 expansion slot
Memory and processor	Up to 2 GB SDRAM packet buffer size: 6 MB, 1G flash
Latency	< 5 us (1000Mb), < 3 us (10Gbps) <1.2 us (40Gbps)
Throughput	Up to 600 Mpps
Routing/switching capacity	From 640 Gbps up to 1440 Gbps depending on the model
PoE capability	90W PoE power per port
Stacking capabilities	9
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.
Power supply name	2 Power Supply Slots (Min1/Max2), JG544A (720W), JG545A (1110W)
Input voltage	AC: 90 VAC to 264 VAC, DC: -36 VDC to 72 VDC
Power Consumption	Max 2385W (including 2010W of PoE)
Heat dissipation	Ranges from 134 BTU/hour to 8137 BTU/hour, depending on power supply configuration
Product Dimensions (metric)	4.37 x 44 x 46 cm
Weight	Up to 6.05 kg
Warranty	These switches support Limited Lifetime warranty for details on warranty and software releases available with your product purchase, please refer to hpe.com/networking/support
Operating Temperature	23°F to 113°F (–5°C to 45°C)



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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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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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