Hewlett Packard Enterprise

HPE FLEXNETWORK 5510 HI SWITCH SERIES

Fixed Port L3 Managed Ethernet Switches

WHAT'S NEW

- Resilient and powerful HPE FlexNetwork advanced Layer 3 switch series with multi-service support and up to 9 chassis IRF scalability.
- Enhanced MPLS/VPLS support and full-featured IPv4/IPv6 dual stack.
- Scalability with convenient built-in 10GbE and modular 40GbE uplinks.
- 1440 W of PoE+ power using dual power supplies for high resiliency.
- Industry standard MACsec support for improved switch to switch security.

OVERVIEW

The HPE FlexNetwork 5510 HI Switch Series delivers outstanding resiliency, security, and multiservice support for medium and large enterprise networks. This switch includes enterprise-class QoS; dual, redundant power supplies with support for PoE+; 10GbE and 40GbE uplinks; 9 chassis IRF stacking; Static & RIP Routing, MACsec, OSPF, IPv6 and Energy Efficient Ethernet. The 5510 HI offers advanced technologies including OAM, CFD, multi-level QoS, MPLS, and VPLS. It can be managed with the HPE Intelligent Management Center (IMC) Software for a single view of your entire network.

FEATURES

Highly Resilient, More Secure, and Scalable Access Layer Switches

The HPE FlexNetwork 5510 HI Switch Series delivers outstanding resiliency, security, and multiservice support capabilities for traditional large enterprise networks. Advanced technologies include OAM, CFD, RRPP, BFD, Multi-level QoS, MPLS, and VPLS.

The HPE Intelligent Resilient Framework (IRF) virtualizes up to nine physical switches into one logical device for simpler, flatter, more agile networks.

Offers scalable stacking with both built-in and modular 10GbE uplinks and 40GbE for high capacity, back-haul connectivity.

Dual, redundant, hot-swappable power supplies keep your network up and running and deliver up to 1440 Watt of PoE+ for powered cameras, phones and wireless access points.

The 5510 HI has IPv6 support and fully featured Layer 3 functionality, including RIP, OSPF, ISIS, BGP, and PIM with no software licensing required.

Powerful Performance

The HPE FlexNetwork 5510 HI Switch Series provides higher levels of security with hardware-based, wire-speed access control lists (ACLs).

Provides simple administration without impacting network performance offering feature-rich TCAM-based ACL implementation.

Non-blocking architecture delivers up to 336 Gb/s of wire-speed switching with a non-blocking switching fabric and up to 250 million pps throughput.

Robust Quality of Service (QoS)

The HPE FlexNetwork 5510 HI Switch Series supports advanced classifier-based QoS which directs traffic using multiple match criteria based on Layer 2, 3, and 4 information and applies QoS policies such as setting priority level and rate limit to selected traffic on a port, VLAN, or whole switch.

Creates traffic classes based on ACLs, IEEE 802.1p precedence, IP, and DSCP or Type of Service (ToS) precedence. Supports filter, redirect, mirror, or remark.

Get extensive traffic prioritization with congestion actions: 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.

Comprehensive Security Control and a Single View of the Network

The HPE FlexNetwork 5510 HI Switch Series supports flexible authentication methods including 802.1X, MAC, and Web authentication for greater security and policy-driven application authentication.

Offers identity-driven security and access control with automatic VLAN assignment and per-user ACLs allow access to specific network services without risking network security.

Security features include: IP source guard, DHCPv6 snooping, STP BPDU port protection, RADIUS/HWTACACS, and SSL. Supports MACsec for greater end-point or switch-to-switch security.

Can be seamlessly managed with HPE Intelligent Management Center (IMC) to provide end-to-end network transparency with consistent network experience through comprehensive configuration, compliance and policy management.

RMON and sFlow provide advanced monitoring and reporting capabilities for statistics, history, alarms and events.

Technical specifications   HPE FlexNetwork 5510 HI Switch Series

Differentiator	The HPE FlexNetwork 5510 HI Series delivers flexibility, scalability and low TCO with a robust feature set supporting stacking, Static & RIP Routing, OSPF, MPLS, PoE+, ACLs, IPv6, Energy Efficient Ethernet and a Limited Lifetime Warranty.
Ports	(48) 10/100/1000 and (4) SFP ports, maximum, or (24) SFP and (4) 10/100/1000 ports, (2) SFP+ 10GbE ports. (1) port expansion module slot. PoE+ available, depending on model
Memory and processor	2 GB SDRAM Packet buffer size: 4 MB 512 MB flash
Latency	1000 Mb Latency: < 5 μs 10 Gbps Latency: < 3 μs
Throughput	250 Mpps Maximum, depending on model
Routing/switching capacity	336 Gbps Maximum, depending on model
PoE capability	1440 W PoE+ Maximum, depending on model
Stacking capabilities	IRF 9 switches
Management features	IMC - Intelligent Management Center Command-line interface Web browser SNMP manager
Input voltage	48 to -60 VDC Maximum, depending on model and configuration
Operating humidity range	10 to 90% (noncondensing)

HPE POINTNEXT

Access expertise at every step of your IT journey with HPE Pointnext Services. Advisory Services focuses on your business outcomes and goals, to design your transformation and build a roadmap tuned to your unique challenges. Our Professional and Operational Services help speed up time-to-production and keep your IT stable and reliable.

Operational Services from HPE Pointnext Services

- **HPE Datacenter Care** helps modernize and simplify IT operations. Partner with an assigned account team, access technical expertise, an enhanced call experience gives you priority access, choose hardware and software support, implement proactive monitoring to help stay ahead of issues, and access HPE IT best practices and IP.
- **HPE Proactive Care** offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.). Read more
- **HPE Foundation Care** helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. Read more.

Other related services

Defective Media Retention is optional and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

HPE Service Credits offers a menu of technical services, access additional resources, and specialist skills.

HPE Education Services delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.
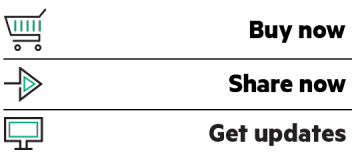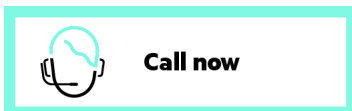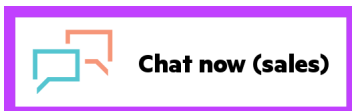
HPE GREENLAKE

HPE Greenlake is HPE's market-leading IT as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please explore them here.

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