

HPE FlexNetwork 5510 48G PoE+ 4SFP+ HI 1-slot Switch (JH148A)



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 48G PoE+ 4SFP+ HI 1-slot Switch

Product Number	JH148A
Differentiator	Layer 3 switch with 48 10/100/1000 PoE+ ports 4 GbE SFP and 2 10GbE SFP+ slots 1 expansion module slot supports Intelligent Resilient Framework (IRF) virtual fabric and dual power supplies
Ports	(48) RJ-45 autosensing 10/100/1000 PoE+ ports Ports 1 - 8 support MACSec (4) SFP+ 10GbE ports (1) port expansion module slot Supports a maximum of 6 SFP+ ports or 2 1/10GBASE-T ports or 2 40GbE ports, with optional module
Memory and processor	2 GB SDRAM Packet buffer size: 4 MB 512 MB flash
Latency	1000 Mb Latency: < 5 μ s 10 Gbps Latency: < 3 μ s
Throughput	up to 250 Mpps
Routing/switching capacity	336 Gbps
PoE capability	1440 W PoE+
Stacking capabilities	IRF 9 switches
Management features	IMC - Intelligent Management Center Command-line interface Web browser SNMP manager
Input voltage	100 - 240 VAC, rated (90 - 264 VAC, max) (depending on power supply chosen)
Operating humidity range	10 to 90% (noncondensing)
Power consumption	670 W (maximum)
Heat dissipation	2286 BTU/hr (2411.73 kJ/hr)
Product dimensions	4,37 x 44 x 46 cm
Weight	12.5 kg



For additional technical information, available models and options, please reference the [QuickSpecs](#)

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Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

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HPE GreenLake

[HPE GreenLake edge-to-cloud platform](#) is HPE's market-leading 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, on premises, fully managed in a pay per use model.

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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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