



HPE FLEXFABRIC 12901E SWITCH CHASSIS (JH951A)

Modular Ethernet Switches



WHAT'S NEW

- Introducing small form-factor 1- and 2-slot chassis for next-generation fabric needs.
- Modular 1RU line cards with support for HPE FlexFabric 59xx Switch modules.
- High-density 100GbE as well as support for 100GbE MACsec.
- Support for full internet routing tables when using "HF" line cards.
- Open industry standards-based

OVERVIEW

The HPE FlexFabric 12900E Switch Series is a next-generation modular data center core switch designed to support virtualized data centers and the evolving needs of private and public cloud deployments. It offers unprecedented levels of performance, buffering, scale, and availability with high-density GbE, 10GbE, 40GbE and 100GbE connectivity. The switch series includes 1-, 2-, 4-, 8- and 16-slot chassis. Ready for software-defined networking (SDN), the HPE FlexFabric 12900E Switch supports a full Layer 2 and 3 feature set as well as advanced data center features to build



programming interfaces.

resilient scalable fabrics and deliver outstanding convergence times.

FEATURES

Modern, Scalable and Distributed Architecture

The HPE FlexFabric 12900E Switch Series provides non-blocking, lossless Clos architecture with VOQs and large buffers with the flexibility and scalability for future growth.

Distributed architecture with separation of data and control planes delivers enhanced fault tolerance and facilitates continuous operation and zero service disruption during planned or unplanned control-plane events.

Advanced Comware modular operating system brings native high stability, independent process monitoring, and restart through the modular design and multiple processes of Hewlett Packard Enterprise Comware v7 software; enhanced serviceability functions are supported.

In-Service Software Upgrade (ISSU) provides an upgrade of the entire chassis, or an individual task or process, with zero packet loss.

High-Performance Switch Series with Broad Interface Options

The HPE FlexFabric 12900E Switch Series lets you build Layer 2 and Layer 3 fabrics which are flexible, resilient, and scalable with VxLAN support and sub-second convergence times.

High-density 1GbE, 10GbE, 40GbE and 100GbE interface connectivity with up to 16 interface module slots scales up to 768 1GbE/10GbE, 768 40GbE ports and 576 100GbE ports.

Distributed scalable fabric architecture offers up to six fabric modules delivering more than 43.2 Tbps per slot bandwidth.

Optimized for the Next-Generation Data Center

The HPE FlexFabric 12900E Switch Series let you build Layer 2 fabrics which are flexible, resilient, and scalable with VxLAN, TRILL and/or Hewlett Packard Enterprise IRF.

Enhanced HPE Multitenant Device Context (MDC) for multi-tenancy giving you the ability to virtualize a physical switch into multiple logical device.

Network and storage convergence with support for Fiber Channel over Ethernet (FCoE) and Data Center Bridging (DCB) protocols includes IEEE 802.1Qaz Data Center Bridging Exchange (DCBX), Enhanced Transmission Selection (ETS), and IEEE 802.1Qbb Priority Flow Control (PFC).

Enterprise-Class Availability and Resiliency with Broad Layer 2 and Layers 3 Feature Set

Intelligent Resilient Fabric (IRF) creates virtual resilient switching fabrics where two HPE FlexFabric 12900E Switch Series perform as a single Layer 2 switch and Layer 3 router that can be attached using standard LACP for automatic load balancing and high availability.

The switch series offers hot-swappable modules and redundant load-sharing fabrics, management, power and high-speed fan assemblies which provides you with optimum network performance and availability while simplifying your



network operations.

Comprehensive switching, routing and service provider feature set with full IPv4/IPv6, ACLs, QoS, MPLS/VPLS and multicast capabilities is offered.

Technical specifications

HPE FlexFabric 12901E Switch Chassis

Product Number (SKU)	JH951A
Differentiator	2-slot horizontal chassis, 2U, with 1 MPU slot and 1 I/O slot
Ports	Supports a maximum of 48 100GbE, 40GbE or 10GbE ports or a combination
Memory and processor	Quad Core MIPS64 @ 1.2GHz, 1 GB flash, 16 GB DDR3 SDRAM
Throughput	up to 5.8 Bpps
Switching capacity	9.6 Tbps
Stacking capabilities	IRF 2 switches
Management features	IMC - Intelligent Management Center Command-line interface Out-of-band management (serial RS-232C) SNMP manager Telnet Terminal interface (serial RS-232C) Modem interface IEEE 802.3 Ethernet MIB Ethernet interface MIB
Input voltage	100 - 240 VAC, rated -48 to -60 VDC, rated (depending on power supply chosen)
Minimum dimensions (H x W x D)	8.8 x 44.0 x 85.6 cm
Weight	35 kg



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

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- [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](#).

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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.

Image may differ from the actual product
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