

HPE FLEXNETWORK 7500 SWITCH SERIES

Modular Ethernet Switches



WHAT'S NEW

- Full Layer 3 networking, MPLS, and Layer 2/Layer 3 VXLAN in a campus network.
- Powerful switching capacity of up to 4,160 Gbps.
- Compact density with up to 480 ports of 10GbE.
- Advanced security features include 802.1X, MAC Authentication, and MACsec.

OVERVIEW

The HPE FlexNetwork 7500 Switch Series is a versatile, high-performance, modular switch designed for the evolving needs of integrated services networks. Deployed across verticals at the enterprise LAN core, aggregation layer and wiring closet edge it offers 40GbE connectivity, cost-effective wire-speed 10GbE ports, high-density PoE/PoE+, and advanced functionality with service modules.

With Hewlett Packard Enterprise Intelligent Resilient Fabric (IRF) technology, the 7500 Switch can be virtualized across four chassis with a single management interface—enabling flatter, more agile networks.

FEATURES

Versatile Switch Delivers Intelligent, Real-time Services for the Campus

The HPE FlexNetwork 7500 Switch Series is designed for the evolving network demands of campus LAN core, aggregation, and access layer.

This series offers up to 160 Gbps of switching capacity per slot using two switch and routing units (SRPUs) and up to 1440 W for PoE/PoE+ power per slot for mission-critical applications.

Broad offering of interfaces includes 40GbE connectivity, cost-effective high-density 10GbE ports and high-density PoE/PoE+ of up to 480 PoE/PoE+ ports for IP phones, cameras, and future high-density Internet of Things (IoT) deployments.

Includes advanced hardware feature sets such as VXLAN to build Layer 2 overlay networks using Layer 3 underlays, and MACsec for greater end-point or switch-to-switch security.

No hidden costs with the license-free Layer 2 and 3 feature set, including IPv6, MPLS functionality, and robust Quality of Service (QoS).

Architected for a High-performance Network

The HPE FlexNetwork 7500 Switch Series supports a maximum of 4,160 Gb/s switching capacity from a 2.4 Tbps ASIC, delivering enhanced performance and future expansion capability.

Delivers up to 2,380 Mpps of packet performance with dual fabrics performing all switching and routing functions in the I/O modules, meeting current and future demands of bandwidth-intensive applications.

HPE Intelligent Resilient Fabric (IRF) allows up to four 7500 Switch Series chassis to be virtualized into a single switching/routing fabric that improves network performance and resiliency, simplifying your deployment and management.

Robust Security and Quality of Service (QoS) Controls

The HPE FlexNetwork 7500 Switch Series includes a robust set of security and quality of service features to build a trusted network that meets your ever-changing corporate policies and compliances.

Flexible authentication options include 802.1X, MAC and Web Authentication, and Endpoint Admission Defense, delivering greater security and policy-driven application authentication.

Advanced distributed denial of service (DDOS) protection, such as DHCP Snooping, IP Source Guard, and ARP Protection, and flexible traffic controls, such as policy-based routing, QoS, and ACLs, are available to manage end-to-end application priorities.

The 7500 Switch Series includes a powerful set of multilevel-access security controls, such as varying security management login, RADIUS, SSH, TACACS/TACACS+, to protect and control change management access.

Single Management View of the Network

The HPE FlexNetwork 7500 Switch Series can be managed as a part of a larger network with HPE Intelligent Management Center (IMC) Software.

IMC provides end-to-end visibility and control of the wired network through



comprehensive configuration, compliance and policy management.

IMC functions seamlessly in a multivendor network environment providing ease of management across the network edge to data center.

IMC supports port and traffic mirroring, RMON and sFlow.

Technical specifications

HPE FlexNetwork 7500 Switch Series

Differentiator	The HPE FlexNetwork 7500 Series of modular core switches are multilayer switches which meet the evolving needs of integrated services networks.
Ports	10 I/O module slots, maximum Supports a maximum of 480 GbE fiber or 10/100/1000 ports, 160 1/10GbE fiber, 80 10GbE, or 40 40GbE ports, or a combination, depending on configuration
Management features	IMC - Intelligent Management Center Command-line interface Web browser 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	-48 to -60 VDC
Operating humidity range	10 to 95% (noncondensing)



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

HPE POINTNEXT SERVICES

[HPE Pointnext Services](#) brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

Operational Services from HPE Pointnext Services

[HPE Pointnext Tech Care](#) provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

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- Deploy
- Integrate and migrate
- Operate and improve
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- Greenlake Management Services
- Retire and sanitize
- IT Training and personal development

Other related services

[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.

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

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.

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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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