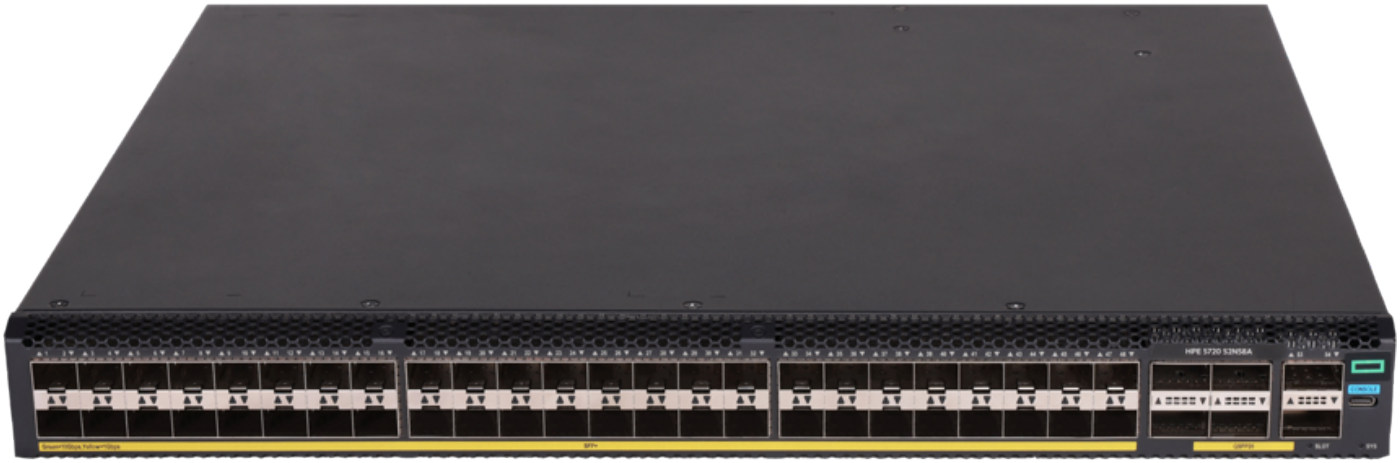
HPE Networking Comware Switch Series 5720



What's new

- Cost-effective access switch with hybrid SFP+ and 10GBASE-T with multigigabit options on 10GBASE-T port—5G, 2.5G, 1G.
- DRNI combines multiple physical switches into one virtual distributed-relay (DR) system for doubling aggregate bandwidth, faster forwarding, resiliency, and high availability.
- Virtual Extensible LAN (VXLAN) with lite Ethernet VPN (EVPN) allows greater flexibility, better performance with wirespeed, enhanced security, and better scalability.
- Hardware-based MACsec enable end-to-end encrypted security.
- The Intelligent Resilient Fabric (IRF)

Overview

HPE Networking Comware Switch Series 5720 is designed to cater to diverse customer needs. This cost-effective access switch offers hybrid SFP+ and 10GBASE-T options, along with multigigabit support on 10GBASE-T ports, allowing scalability from 10GbE SFP+ to 100G QSFP28.

These data center leaf / access layer switches come with MACsec support and 10GBASE-T additional modules. Features such as distributed resilient network interconnect (DRNI) and HPE Intelligent Resilient Fabric (IRF) enhance network resiliency while redundant pluggable power supplies provide a dynamic and highly available network.

Moreover, these switches support HPE Intelligent Management Center (IMC), which delivers a consistent network manageability experience. Streamline network management processes for greater efficiency through centralized configuration, compliance, policy management, monitoring, and troubleshooting.

technology enabling greater resilience and scalability with IRF stacking.

- VXLAN and EVPN enable isolation and greater scalability of L2/L3 overlay services and multicast.

Features

Multigigabit High-density Switches

The HPE Networking Comware Switch Series 5720 provides medium and large enterprise networks with 24/40 port 1G/2.5G/5G/10GBASE-T and 32/48 port 10G SFP+ connectivity options, thereby resulting in high density and flexibility.

The switch series delivers up to 1001.7 Mpps of packet forwarding rate and up to 2240 Gbps of switching capacity.

It supports jumbo frames with a frame size of up to 9216 bytes, improving the performance of large data transfers.

It supports equal-cost multi-path 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 Networking Comware Switch Series 5720 uses Intelligent Resilient Framework (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, hot-swappable power supplies maintain a dynamic and highly available network.

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, especially in spine-leaf architectures.

Robust Quality of Service (QoS)

The HPE Networking Comware Switch Series 5720 supports operations, administration, and maintenance (OAM) and In-Service Software Upgrade (ISSU) for business continuity and improving manageability.

It supports advanced classifier-based QoS, which groups 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.

This switch series provides extensive traffic prioritization with strict priority (SP) queuing, weighted round robin (WRR), and SP+WRR.

Broadcast control and limitation of broadcast traffic rate can reduce unwanted network traffic.

Comprehensive Security and Simplified Management

HPE Networking Comware Switch Series 5720 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.

The switch series supports methods including 802.1X and MAC authentication and encryption for greater device security and policy-driven application authentication. Per-user access control lists (ACLs) provide identity-driven security and access control.

Dynamic Address Resolution Protocol (ARP) protection with functions such as ARP detection and ARP packet validation that block broadcasts from unauthorized hosts and prevent eavesdropping or theft of network data.

This switch series provides a single pane management via through HPE Intelligent Management Center (IMC), maintaining comprehensive configuration, compliance, and policy management to enable end-to-end network visibility, control, and a consistent network experience.

It supports HPE IMC Orchestrator and Analyzer that offers orchestration, underlay and overlay automated service provisioning, centralized control and AI-enabled network health monitoring with telemetry, and visual dashboards for

fault detection and resolution.

Technical specifications	HPE Networking Comware Switch Series 5720
Ports	48 SPF+, 40 1/10GBASE-T and 8 SFP+, 32 SFP+ or 24 10GBASE-T and 8 SFP+ ports, depending on model. All models also have 6 QSFP28 ports.
Memory and processor	4GB flash, 4GB SDRAM, packet buffer size: 32M Quad Core ARMv8-Cortex-A72;
Latency	< 3 µs
Throughput	1001 Mpps, maximum, depending on model
Switching capacity	2240 Gbps to 2560 Gbps, depending on model
Routing capabilities	RIP, OSPF, BGP, IPV6, MPLS
Stacking capabilities	Maximum 9 physical 5720 switches can be combined into one virtual switch configuration and are managed using a single IP address
Management features	IMC, IMC Orchestrator, CLI, out-of-band management, SNMP Manager, Telnet, FTP
Power supply name	AC: 2 X JL592A/JL593A DC: 2 X JL688A
Input voltage	VAC：From 100V to 240V VDC：From -48V to -60V
Power consumption	From 89 W to 99 W, depending on the model
Heat dissipation	From 785 BTU/h to 921 BTU/h, depending on the model

For additional technical information, available models and options, please reference the QuickSpecs

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The Defective Media Retention (DMR) service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. Comprehensive Defective Material Retention (CDMR) allows you to keep all data retentive components.

HPE GreenLake

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