

HPE Networking Comware Switch Series 5150 EI

HPE Networking Comware Switch 8p 10M/100M/1G 2p SFP 1G 2p SFP+ 1G/10G 5150EI (S5T53A)



What's new

- Family of stackable L3 access switches with 1 GbE downlinks, 10 GbE uplinks, and support OSPF, EIGRP, ISIS, RIP and routed access. PoE-enabled models deliver up to 30 watts of 802.3at power per port.
- 8, 24, and 48 port configurations available, supporting up to 176 Gbps of switching capacity and 130 Mpps of forwarding throughput. 24-port fiber option with redundant, dual modular power supplies.
- Up to 432 ports of scalability with Intelligent Resilient Fabric (IRF) stacking up to 9-members for link and device

Overview

The HPE Networking Comware Switch Series 5150 EI is a family of stackable L3 access switches powered by HPE Comware OS delivering scalability and resiliency at a modest TCO for small, medium, and large enterprise campus networks.

With 8, 24, and 48 gigabit ports, options for mixed copper and fiber connectivity, and up to 30 watts of 802.3at PoE per port this flexible series is ready to connect your edge clients, servers, and IoT devices. Built-in 10 GbE uplinks and Intelligent Resilient Fabric (IRF) stacking up to 9-members adds scale, resiliency, and simplification to your access network, enabling network operators to manage the whole stack as a single logical switch.

Network visibility, management, and operation tools for this series include

aggregation across your network, enhancing redundancy and resource usage.

- Standard CLI and Smart Management Center (SmartMC) embedded and ready to use, delivering network visibility, management, and operations at no additional cost.
- Energy Efficient Ethernet and energy-saving green design initiatives support your sustainability efforts by automatically reducing power to idle ports and powering down unused ports.

standard CLI and the Smart Management Center (SmartMC), embedded and ready to use at no additional cost. The series integrates with HPE Aruba Networking IMC, delivering a centralized point of control for your entire network.

Features

Scalable, Reliable L3 Access Switches

The HPE Networking Comware Switch Series 5150 EI delivers scalability and enhances reliability of the network with Intelligent Resilient Framework (IRF) technology. IRF stacking enables virtual resilient switching fabrics, where two or more switches perform as a single L2 switch and L3 router.

IRF stacking enhances performance and reliability with uninterrupted L2 switching and L3 forwarding and reduces operational complexity with simpler, flatter, and more agile networks.

Four fixed 10 GbE uplinks (SFP, SFP+, and 10 GBASE-T) deliver performance for bandwidth intensive applications.

Link redundancy with support for Spanning Tree (MSTP, RSTP) and Smart Link protocols for highly available links.

Performance with Quality of Service (QoS)

The HPE Networking Comware Switch Series 5150 EI is engineered with non-blocking architecture for low-latency switching. It supports advanced classifier-based Quality of Service (QoS) to group traffic, set priority levels, and rate limit selected traffic on a port, VLAN, or entire switch.

It provides traffic prioritization with supported congestion actions including: strict priority (SP) queuing, weighted round robin (WRR), weighted random early detection (WRED), and SP+WRR queuing and traffic policing with Committed Access Rate (CAR) and line rate.

Reduce unwanted network traffic with broadcast control and limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic.

Security with Comprehensive Control

The HPE Networking Comware Switch Series 5150 EI supports flexible authentication methods including 802.1X and MAC authentication for greater security and policy-driven application authentication. Per-user access control lists (ACLs) provide identity-driven security and access control.

Centralized security policy management and network protection with IMC End User Admission Domination (EAD) which integrates security policies, network access control, and access right control policies to form a cooperative security system.

ACLs provide IP Layer 2 to Layer 4 traffic filtering while supporting global ACL, VLAN ACL, port ACL, and IPv6 ACL.

Dynamic ARP protection with functions such as ARP Detection and ARP packet validation that block broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data.

Enhance security with encryption of access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3, and other features including DHCP protection, IP source guard, and RADIUS/HWTACACS.

Simplified Management and Operations

The HPE Networking Comware Switch Series 5150 EI 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 entire switch.

It supports SmartMC, an embedded network management tool with a web-based GUI to simplify operations and facilitate centralized management. It offers features such as configuration backup, software version management and

seamless switch replacement.

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

Technical specifications

HPE Networking Comware Switch 8p
10M/100M/1G 2p SFP 1G 2p SFP+ 1G/10G 5150EI

Product Number	S5T53A
Differentiator	8x 10/100/1000BASE-T ports 2x 1000BASE-X SFP ports 2x 1G/10G BASE-X SFP+ ports
Memory and processor	CPU: Arm 1.2 GHz Dual Core 2 GB SDRAM, 1 GB Flash, 1.5 MB packet buffer
Latency	1GE: < 5 μs 10GE: < 3 μs
Throughput	45Mpps
Switching capacity	60 Gbps
Stacking capabilities	9 members IRF
Management features	IMC - Intelligent Management Center Command-line interface SNMP manager SmartMC GUI
Input voltage	AC: 90V to 290V
Operating temperature	23°F to 113°F (–5°C to 45°C)
Power consumption	Idle: Single AC: 5W Full Load: Single AC: 16W

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

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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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