

HPE Networking Comware Switch Series 5150 EI

HPE Networking Comware Switch 24p 10M/100M/1G PoE+ 4p SFP 1G Combo 4p SFP+ 1G/10G 5150EI (S5T51A)



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 aggregation across your network, enhancing redundancy and resource usage.
- Standard CLI and Smart Management

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 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

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.

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 24p
10M/100M/1G PoE+ 4p SFP 1G Combo 4p SFP+
1G/10G 5150EI

Product Number	S5T51A
Differentiator	24x 10/100/1000BASE-T PoE+ ports 4x 100/1000BASE-X SFP Combo ports 4x 1G/10GBASE-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	95Mpps
Switching capacity	128 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: 23W Full Load: Single AC: 465W (PoE 405W)

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

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Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Support services

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

- **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.
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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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