HPE Networking Comware Switch Series 5150 HI



What's new

- Improved performance and scale: supports up to 396 Gpbs bandwidth, 9 member switch stacking, 32K MAC table, improved ARP, ACL, IPv4/v6 unicast and multicast scale.
- High availability: Hot swappable dual power supplies and dual fans, mLAG for link level aggregation and redundancy.
- 6 built-in 10/25 G uplink ports offers competitive platform TCO.
- Comprehensive L3 routing and MPLS features, IPv4/v6 support, L3 multicast support.
- Enhanced security: Trusted Platform Module (TPM) and secure boot, support industry-standard MACsec 256 encryption for end-to-end data link layer security on all ports.
- Standard CLI and Smart Management Center (SmartMC) embedded and ready to use, delivering network visibility,

Overview

The HPE Networking Comware Switch Series 5150 HI is a family of stackable L3 access switches powered by HPE Comware 9 delivering scalability and resiliency for medium and large enterprise campus networks.

With 24 and 48 MACsec-256 enabled 1 GbE downlink ports, 6x10/25 GbE uplinks, hot swappable dual power and fans, and up to 90 watts of 802.3bt PoE per port, this flexible series delivers security and performance for your clients, servers, and IoT devices. Intelligent Resilient Fabric (IRF) stacking up to 9 members adds scale and high availability while Intelligent Network Quality Analyzer (iNQA) supports real-time visibility into network health and performance.

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 entire network.

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Features

Scalable L3 Access Switches

The HPE Networking Comware Switch Series 5150 HI delivers scalability and enhances reliability of the network with Intelligent Resilient Framework (IRF) technology. IRF stacking enables virtual resilient switching fabrics for simpler, flatter, and more agile networks.

Supports 10 GbE uplinks, static and RIP routing, PoE+, ACLs, and IPv6 for improved and costeffective network performance.

DRNI 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.

iNQA helps in measuring network packet loss performance, forward, reverse, and two-way packet loss, including lost number of messages and bytes, message loss, and byte loss rate.

Dual, redundant, hot-swappable power supplies maintain a dynamic and highly available network switch, delivering up to 90W of 802.3bt standards compliant power for cameras, phones, and wireless access points.

Performance with Quality of Service (QoS)

The HPE Networking Comware Switch Series 5150 HI 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.

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 and preserve more bandwidth for critical data.

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.

Security with Comprehensive Control

HPE Networking Comware Switch Series 5150 HI supports flexible authentication methods including 802.1X, MAC Authentication and Encryption for greater device security and policy-driven app authentication. Per-user Access Control Lists (ACLs) provide identity-driven security and access control.

Dynamic ARP protection with functions such as ARP Detection and ARP packet validation blocks broadcast from unauthorized hosts and prevents eavesdropping or theft of network data.

Supports industry-standard MACsec 256 encryption for end-to-end data link layer security, providing increased MAC port binding and link group capacity.

Centralized security policy management and network protection with Intelligent Management Center (IMC) which leverages End User Admission Domination (EAD) integrated security policies, network access control and access right control policies to provide a comprehensive integrated security system.

Security with encryption of all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3, and other features including DHCP protection, IP source guard, dynamic ARP protection, and RADIUS/HWTACAS.

Simplified Management and Operations

The HPE Networking Comware Switch Series 5150 HI can be seamlessly managed with IMC to provide end-to-end network transparency with a consistent network experience through comprehensive configuration, compliance, and policy management.

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 Series 5150 HI
Power consumption	Idle: Single AC: 14W, Dual AC: 16W; Single DC:18W, Dual DC: 25W Full Load: Single AC: 53W, Dual AC: 56W; Single DC: 54W, Dual DC: 61W
Input voltage	AC: 90V to 264V, DC: -36V to -72V
Latency	GE: < 5 µs, 10GE: < 3 µs, 40GE: <1.2µs
Routing capabilities	RIP, OSPF, ISIS, BGP, DHCP, VRRP, VRRP PE, ECMP, BFD, IPv6
Switching capacity	348 - 396 Gbps, depending on model
Stacking capabilities	9 member IRF stack
Throughput	259 - 295 Mpps, depending on model
Memory and processor	Arm 1.6GHz dual core CPU 4 GB SDRAM; 4GB flash, 3MB packet buffer
Power supply	PSU: 1+1, hot swappable, 1 min PSU required Fans: 1+1, hot swappable
Operating temperature	23°F to 122°F (–5°C to 50°C)
Management features	HPE IMC Smart MC, command-line interface web browser SNMP manager
Warranty	Limited lifetime warranty. See the warranty duration guide.

SKU comparison

	HPE Networking Comware Switch 24p 10M/100M/1G 8p SFP 1G Combo 6p SFP28 10G/25G 5150HI (S5T46A)	HPE Networking Comware Switch 48p 10M/100M/1G 6p SFP28 10G/25G 5150HI (S5T47A)
Differentiator	24x 10/100/1000BASE-T ports 8x 100/1000BASE-X SFP combo ports 6x 10G/25G SFP28 ports 1x RJ45 console 1x USB 1x OOBM	48x 10/100/1000BASE-T ports 6x 10G/25G SFP28 ports 1x RJ45 console 1x USB 1x OOBM
Power consumption	Idle: Single AC: 14W, Dual AC: 16W; Single DC:18W, Dual DC: 25W Full Load: Single AC: 53W, Dual AC: 56W; Single DC: 54W, Dual DC: 61W	
Input voltage	AC: 90V to 264V, DC: -36V to -72V	
Latency	GE: < 5 µs, 10GE: < 3 µs, 40GE: <1.2µs	
Routing capabilities	RIP, OSPF, ISIS, BGP, DHCP, VRRP, VRRP PE, ECMP, BFD, IPv6	
Switching capacity	348 Gbps	396 Gbps
Stacking capabilities	9 member IRF stack	
Throughput	259 Mpps	295 Mpps
Memory and processor	Arm 1.6GHz dual core CPU 4 GB SDRAM; 4GB flash, 3MB packet buffer	
Power supply	PSU: 1+1, hot swappable, 1 min PSU required Fans: 1+1, hot swappable	
Operating temperature	23°F to 122°F (–5°C to 50°C)	
Management features	HPE IMC; Smart MC, command-line interface; web browser; SNMP manager	
Warranty	Limited lifetime warranty. See the warranty duration guide.	

Related Options

The following options are available for these series:

SKU	Description
Cables/Cable Kits	
AJ833A	HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable
AJ834A	HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable
AJ835A	HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable
AJ836A	HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable
AJ837A	HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable
AJ838A	HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable
AJ839A	HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable
JD095C	HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable
JD096C	HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable
JD097C	HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable
JG081C	HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable
JL294A	HPE Networking X240 25G SFP28 to SFP28 1m DAC Cable
JL295A	HPE Networking X240 25G SFP28 to SFP28 3m DAC Cable
JL296A	HPE Networking X240 25G SFP28 to SFP28 5m DAC Cable
QK732A	HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 1m Cable
QK733A	HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 2m Cable
QK734A	HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 5m Cable
QK735A	HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 15m Cable
QK736A	HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 30m Cable
QK737A	HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 50m Cable
Networking Options	
S5Z23A	HPE Networking Comware 5X50 180W DC Power Supply
S5Z19A	HPE Networking Comware 5150 70W AC Power Supply
S5Z26A	HPE Networking Comware 5150HI Back-to-Front Fan Tray
S5Z27A	HPE Networking Comware 5150HI Front-to-Back Fan Tray
S0T02A	HPE Networking Comware Module 4-port 10/100/1000Base-T 6-port SFP (2P Combo) 5140HI/5520HI/5600HI
Transceiver Options	
JL855A	HPE Networking 25G SFP28 LC LR 10km SMF Transceiver
JL290A	HPE Networking X2A0 10G SFP+ to SFP+ 7m Active Optical Cable

JL291A	HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable
JL292A	HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable
JH955A	HPE Networking X2A0 25G SFP28 to SFP28 3m Active Optical Cable
JH956A	HPE Networking X2A0 25G SFP28 to SFP28 5m Active Optical Cable
JL297A	HPE Networking X2A0 25G SFP28 to SFP28 7m Active Optical Cable
JL298A	HPE Networking X2A0 25G SFP28 to SFP28 10m Active Optical Cable
JL299A	HPE Networking X2A0 25G SFP28 to SFP28 20m Active Optical Cable
JD120B	HPE Networking X110 100M SFP LC LX Transceiver
JD101A	HPE Networking X115 100M SFP LC BX 10-D Transceiver
JD100A	HPE Networking X115 100M SFP LC BX 10-U Transceiver
JD102B	HPE Networking X115 100M SFP LC FX Transceiver
JD099B	HPE Networking X120 1G SFP LC BX 10-D Transceiver
JD098B	HPE Networking X120 1G SFP LC BX 10-U Transceiver
JD103A	HPE Networking X120 1G SFP LC LH100 Transceiver
JD119B	HPE Networking X120 1G SFP LC LX Transceiver
JD118B	HPE Networking X120 1G SFP LC SX Transceiver
JD089B	HPE Networking X120 1G SFP RJ45 T Transceiver
JL738A	HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver
JL737A	HPE Networking X130 10G SFP+ LC BiDi 10km-Uplink Transceiver
JL740A	HPE Networking X130 10G SFP+ LC BiDi 40km-Downlink Transceiver
JL739A	HPE Networking X130 10G SFP+ LC BiDi 40km-Uplink Transceiver
JG234A	HPE Networking X130 10G SFP+ LC ER 40km Transceiver
JG915A	HPE Networking X130 10G SFP+ LC LH 80km Transceiver
JD094B	HPE Networking X130 10G SFP+ LC LR Transceiver
JD092B	HPE Networking X130 10G SFP+ LC SR Transceiver
JL293A	HPE Networking X190 25G SFP28 LC SR 100m MM Transceiver

Related Services

The following services are available for these series:

SKU	Description
Technology Services	
H07GRE	HPE Aruba Networking Foundational Care 1Y 4HR Exch SVC5150HI 24G sw Service
H07KKE	HPE Aruba Networking Foundational Care 1Y 4HR Exch SVC5150HI 48G sw Service

H07GWE	HPE Aruba Networking Foundational Care 1Y 4HR Onsite CDMR SVC5150HI 24G sw Service
H07KQE	HPE Aruba Networking Foundational Care 1Y 4HR Onsite CDMR SVC5150HI 48G sw Service
H07GVE	HPE Aruba Networking Foundational Care 1Y 4HR Onsite SVC5150HI 24G sw Service
H07KNE	HPE Aruba Networking Foundational Care 1Y 4HR Onsite SVC5150HI 48G sw Service
H07GYE	HPE Aruba Networking Foundational Care 1Y CTR CDMR SVC5150HI 24G sw Service
H07KSE	HPE Aruba Networking Foundational Care 1Y CTR CDMR SVC5150HI 48G sw Service
H07GXE	HPE Aruba Networking Foundational Care 1Y CTR SVC5150HI 24G sw Service
H07KRE	HPE Aruba Networking Foundational Care 1Y CTR SVC5150HI 48G sw Service
H07GTE	HPE Aruba Networking Foundational Care 1Y NBD CDMR SVC5150HI 24G sw Service
H07KME	HPE Aruba Networking Foundational Care 1Y NBD CDMR SVC5150HI 48G sw Service
H07GQE	HPE Aruba Networking Foundational Care 1Y NBD Exch SVC5150HI 24G sw Service
H07KJE	HPE Aruba Networking Foundational Care 1Y NBD Exch SVC5150HI 48G sw Service
H07GSE	HPE Aruba Networking Foundational Care 1Y NBD SVC5150HI 24G sw Service
H07KLE	HPE Aruba Networking Foundational Care 1Y NBD SVC5150HI 48G sw Service
H07HBE	HPE Aruba Networking Foundational Care 3Y 4HR Exch SVC5150HI 24G sw Service
H07KVE	HPE Aruba Networking Foundational Care 3Y 4HR Exch SVC5150HI 48G sw Service
H07HHE	HPE Aruba Networking Foundational Care 3Y 4HR Onsite CDMR SVC5150HI 24G sw Service
H07LBE	HPE Aruba Networking Foundational Care 3Y 4HR Onsite CDMR SVC5150HI 48G sw Service
H07HGE	HPE Aruba Networking Foundational Care 3Y 4HR Onsite SVC5150HI 24G sw Service
H07KZE	HPE Aruba Networking Foundational Care 3Y 4HR Onsite SVC5150HI 48G sw Service
H07HKE	HPE Aruba Networking Foundational Care 3Y CTR CDMR SVC5150HI 24G sw Service
H07LDE	HPE Aruba Networking Foundational Care 3Y CTR CDMR SVC5150HI 48G sw Service
H07HJE	HPE Aruba Networking Foundational Care 3Y CTR SVC5150HI 24G sw Service
H07LCE	HPE Aruba Networking Foundational Care 3Y CTR SVC5150HI 48G sw Service
H07HDE	HPE Aruba Networking Foundational Care 3Y NBD CDMR SVC5150HI 24G sw Service
H07KXE	HPE Aruba Networking Foundational Care 3Y NBD CDMR SVC5150HI 48G sw Service
H07GZE	HPE Aruba Networking Foundational Care 3Y NBD Exch SVC5150HI 24G sw Service
H07KTE	HPE Aruba Networking Foundational Care 3Y NBD Exch SVC5150HI 48G sw Service
H07HCE	HPE Aruba Networking Foundational Care 3Y NBD SVC5150HI 24G sw Service
H07KWE	HPE Aruba Networking Foundational Care 3Y NBD SVC5150HI 48G sw Service
H07HME	HPE Aruba Networking Foundational Care 5Y 4HR Exch SVC5150HI 24G sw Service
H07LGE	HPE Aruba Networking Foundational Care 5Y 4HR Exch SVC5150HI 48G sw Service
H07HTE	HPE Aruba Networking Foundational Care 5Y 4HR Onsite CDMR SVC5150HI 24G sw Service
H07LME	HPE Aruba Networking Foundational Care 5Y 4HR Onsite CDMR SVC5150HI 48G sw Service
H07HSE	HPE Aruba Networking Foundational Care 5Y 4HR Onsite SVC5150HI 24G sw Service
H07LLE	HPE Aruba Networking Foundational Care 5Y 4HR Onsite SVC5150HI 48G sw Service

H07HWE	HPE Aruba Networking Foundational Care 5Y CTR CDMR SVC5150HI 24G sw Service
H07LQE	HPE Aruba Networking Foundational Care 5Y CTR CDMR SVC5150HI 48G sw Service
H07HVE	HPE Aruba Networking Foundational Care 5Y CTR SVC5150HI 24G sw Service
H07LNE	HPE Aruba Networking Foundational Care 5Y CTR SVC5150HI 48G sw Service
H07HQE	HPE Aruba Networking Foundational Care 5Y NBD CDMR SVC5150HI 24G sw Service
H07LJE	HPE Aruba Networking Foundational Care 5Y NBD CDMR SVC5150HI 48G sw Service
H07HLE	HPE Aruba Networking Foundational Care 5Y NBD Exch SVC5150HI 24G sw Service
H07LFE	HPE Aruba Networking Foundational Care 5Y NBD Exch SVC5150HI 48G sw Service
H07HNE	HPE Aruba Networking Foundational Care 5Y NBD SVC5150HI 24G sw Service
H07LHE	HPE Aruba Networking Foundational Care 5Y NBD SVC5150HI 48G sw Service

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

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.

— **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

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

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

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

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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.

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PSN1014892001NLEN, October, 2026.

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