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HPE Networking Comware Switch Series 5150 EI QuickSpecs

The HPE Networking Comware Switch Series 5150 EI is a family of stackable L3 access switches powered by HPE Comware OS delivering cost-optimized scalability and resiliency 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.

Overview

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



HPE Networking Comware Sw 24F 8G 4P 5150EI (S5T48A)



HPE Networking Comware Sw 24G 4P 5150EI (S5T49A)



HPE Networking Comware Sw 48G 4P 5150EI (S5T50A)

Overview



HPE Networking Comware Sw 24G PoE+ 4F 4P 5150EI (S5T51A)



HPE Networking Comware Sw 48G PoE+ 4P 5150EI (S5T52A)



HPE Networking Comware Sw 8G 2F 2P 5150EI (S5T53A)

Overview



HPE Networking Comware Sw 8G PoE+ 2F 2P 5150EI (S5T54A)

Key features

- Family of stackable layer 3 access switches for campus and branch networks, includes OSPF, EIGRP, ISIS, RIP and routed access protocols
- Configurations include models with 8, 24, and 48 built-in 1 GbE downlinks with 4x 1/10 GbE uplinks and options with 30 watts of 802.3at compliant POE per port
- Up to 9-member stacking for 432 ports of scale using Intelligent Resiliant Fabric (IRF) architecture
- 24-port fiber option available with dual, modular, field-replaceable power supplies
- Secure Boot enabled for safe, trusted boot up of HPE Comware OS
- Embedded CLI and Smart Management Centre (SmartMC) network management capabilities at no additional cost
- Energy Efficient Ethernet and energy-saving green design automatically reduces power to idle ports and powers down unused ports

Standard Features

Software-defined networking

OpenFlow
Supports OpenFlow 1.3 specification to enable SDN by allowing separation of the data (packet forwarding) and control (routing decision) paths

Quality of Service (QoS)

Broadcast control
Allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic

Advanced classifier-based QoS
Classifies traffic using multiple match criteria based on Layer 2, 3, and 4 information; applies QoS policies such as setting priority level and rate limit to selected traffic on a port, VLAN, or whole switch

Powerful QoS feature
Supports the following congestion actions: strict priority (SP) queuing, weighted round robin (WRR), and SP+WRR

Traffic policing
Supports Committed Access Rate (CAR) and line rate

Connectivity

Auto-MDIX
Automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports

Flow control
Provides back pressure using standard IEEE 802.3x, reducing congestion in heavy traffic situations

High-density connectivity
Provides up to 48 fixed 10/100/1000BASE-T ports in a Layer 2/Layer 3 switch

IEEE 802.3at Power over Ethernet (PoE+) support
Simplifies deployment and dramatically reduces installation costs by helping to eliminate the time and cost involved in supplying local power at each access point location

Ethernet operations, administration and maintenance (OAM)
Detects data link layer problems that occurred in the "last mile" using the IEEE 802.3ah OAM standard; monitors the status of the link between two devices

Standard Features

Resiliency and high availability

Separate data and control paths
Separate control from services and keeps service processing isolated; increases security and performance

External redundant power supply
Provides high reliability

Smart link
Allows 100 ms failover between links

Spanning Tree/MSTP, RSTP, PVST+, RPVST+
Link redundancy with support for protocols such as Multiple Spanning Tree Protocol (MSTP), Rapid Spanning Tree Protocol (RSTP), Per-VLAN Spanning Tree (PVST+), Rapid Per-VLAN Spanning Tree (RPVST+), and Smart Link provides high availability

Intelligent Resilient Fabric (IRF)
Creates virtual resilient switching fabrics, where two or more switches perform as a single L2 switch and L3 router; switches do not have to be co-located and can be part of a disaster-recovery system; servers or switches can be attached using standard LACP for automatic load balancing and high availability; can eliminate the need for complex protocols like Spanning Tree Protocol, (), or VRRP, thereby simplifying network operation

Layer 3 routing

Static IP routing
Provides manually configured routing for both IPv4 and IPv6 networks

Open Shortest Path First (OSPF)
An Interior Gateway Protocol (IGP) that uses a link state routing algorithm; supports OSPFv1/v2 and OSPFv3

Routing Information Protocol (RIP)
Uses a distance vector algorithm with UDP packets for route determination; supports RIPv1 and RIPv2 routing; includes loop protection

Management

Remote configuration and management
Enables configuration and management through a secure Web browser or a CLI located on a remote device

Manager and operator privilege levels
Provides read-only (operator) and read/write (manager) access on CLI and Web browser management interfaces

Command authorization
Leverages HWTACACS to link a custom list of CLI commands to an individual network administrator's login; also provides an audit trail

Standard Features

Secure Web GUI
Provides a secure, easy-to-use graphical interface for configuring the module via HTTPS

Multiple configuration files
Stores easily to the flash image
Complete session logging
Provides detailed information for problem identification and resolution

Remote monitoring (RMON)
Uses standard SNMP to monitor essential network functions; supports events, alarm, history, and statistics group plus a private alarm extension group

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
Advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications

sFlow (RFC 3176)
Provides scalable ASIC-based wirespeed network monitoring and accounting with no impact on network performance; this allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes

Management VLAN
Segments traffic to and from management interfaces, includingCLI/telnet, a Web browser interface, and SNMP

Remote intelligent mirroring
Mirrors ingress ACL-selected traffic from a switch port or VLAN to a local or remote switch port anywhere on the network

Device Link Detection Protocol (DLDP)
Monitors a cable between two compatible switches and shuts down the ports on both ends if the cable is broken, which prevents network problems such as loops

IPv6 management
Provides future-proof networking because the switch is capable of being managed whether the attached network is running IPv4 or IPv6; supports pingv6, tracertv6, Telnetv6, TFTPv6, DNSv6, syslogv6, FTPv6, SNMPv6, DHCPv6, and RADIUS for IPv6

Troubleshooting
Ingress and egress port monitoring enables network problem-solving; virtual cable tests provide visibility into cable problems

Smart Management Center (SmartMC)
Embedded network management tool with a web-based GUI to simplify operations and facilitate centralized management. It is made available at no additional cost and offers centralized configuration backup, software version management and seamless switch replacement.

Standard Features

HPE Intelligent Management Center (IMC)
Integrates fault management, element configuration, and network monitoring from a central vantage point; built-in support for third-party devices enables network administrators to centrally manage all network elements with a variety of automated tasks, including discovery, categorization, baseline configurations, and software images; the software also provides configuration comparison tools, version tracking, change alerts, and more

Network Management
SNMP v1/v2c/v3, MIB-II with Traps, and RADIUS Authentication Client MIB (RFC 2618); embedded HTML management tool with secure access

Security

Access control lists (ACLs)
Provides IP Layer 2 to Layer 4 traffic filtering; supports global ACL, VLAN ACL, port ACL, and IPv6 ACL

IEEE 802.1X
Industry-standard method of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server

MAC-based authentication
Client is authenticated with the RADIUS server based on the client's MAC address

Identity-driven security and access control

- **Per-user ACLs**
  Permits or denies user access to specific network resources based on user identity and time of day, allowing multiple types of users on the same network to access specific network services without risking network security or providing unauthorized access to sensitive data
- **Automatic VLAN assignment**
  Automatically assigns users to the appropriate VLAN based on their identities

Secure management access
Delivers secure encryption of all access methods (CLI, GUI, or MIB) through SSHv2, SSL, HTTPS and/or SNMPv3

Secure FTP/ SCP
Allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file

Guest VLAN
Provides a browser-based environment to authenticated clients that is similar to IEEE 802.1X

Port security
Allows access only to specified MAC addresses, which can be learned or specified by the administrator

Port isolation
Secures and adds privacy, and prevents malicious attackers from obtaining user information

Standard Features

STP BPDU port protection
Blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks

STP root guard
Protects the root bridge from malicious attacks or configuration mistakes

DHCP protection
Blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks

IP source guard
Helps prevent IP spoofing attacks

Dynamic ARP protection
Blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data

RADIUS/HWTACACS
Eases switch management security administration by using a password authentication server

Performance

Nonblocking architecture
Up to 176 Gb/s nonblocking switching fabric provides wirespeed switching with up to 130.9 Mpps throughput

Hardware-based wirespeed access control lists (ACLs)
Help provide high levels of security and ease of administration without impacting network performance with a feature-rich TCAM-based ACL implementation

Device support

Prestandard PoE Support
Detects and provides power to prestandard PoE devices such as wireless LAN access points and IP phones

Convergence

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
Facilitates easy mapping using network management applications with LLDP automated device discovery protocol

LLDP-MED
Is a standard extension that automatically configures network devices, including LLDP-capable IP phones

LLDP-CDP compatibility
Receives and recognizes CDP packets from Cisco's IP phones for seamless interoperation

Standard Features

IEEE 802.3at Power over Ethernet (PoE+)
Provides up to 30 W per port that allows support of the latest PoE+-capable devices such as IP phones, wireless access points, and security cameras, as well as any IEEE 802.3af-compliant end device; eliminates the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments

PoE allocations
Supports multiple methods (automatic, IEEE 802.3af class, LLDP-MED, or user-specified) to allocate PoE power for more efficient energy savings

Voice VLAN
Automatically assigns VLAN and priority for IP phones, simplifying network configuration and maintenance

IP multicast snooping (data-driven IGMP)
Prevents flooding of IP multicast traffic

Additional information

Green IT and power
Improves energy efficiency through the use of the latest advances in silicon development; shuts off unused ports and utilizes variable-speed fans, reducing energy costs

Green initiative support
Provides support for RoHS and WEEE regulations

Unified Hewlett Packard Enterprise Comware operating system with modular architecture
Provides an easy-to-enhance-and-extend feature set, which doesn't require whole-scale changes; all switching, routing, and security platforms leverage the Comware OS, a common unified modular operating system

Energy Efficient Ethernet (EEE) Support

Reduces power consumption in accordance with IEEE 802.3az

Layer 2 switching

16K MAC address table
Provides access to many Layer 2 devices

VLAN support and tagging
Supports IEEE 802.1Q with 4,094 simultaneous VLAN IDs

IEEE 802.1ad QinQ and selective QinQ
Increase the scalability of an Ethernet network by providing a hierarchical structure; connect multiple LANs on a high-speed campus or metro network

Standard Features

10GbE port aggregation
Allows grouping of ports to increase overall data throughput to a remote device

Device Link Detection Protocol (DLDP)
Monitors link connectivity and shuts down ports at both ends if unidirectional traffic is detected, preventing loops in STP-based networks

Jumbo Frame Support
Improves the performance of large data transfers; supports frame size of up to 9K-bytes

Layer 3 services

Address Resolution Protocol (ARP)
Determines the MAC address of another IP host in the same subnet; supports static ARPs; gratuitous ARP allows detection of duplicate IP addresses; proxy ARP allows normal ARP operation between subnets or when subnets are separated by a Layer 2 network

Dynamic Host Configuration Protocol (DHCP)
Simplifies the management of large IP networks; supports client; DHCP Relay enables DHCP operation across subnets

Loopback interface address
Defines an address that can always be reachable, improving diagnostic capability

User Datagram Protocol (UDP) helper function
Allows UDP broadcasts to be directed across router interfaces to specific IP unicast or subnet broadcast addresses and prevents server spoofing for UDP services such as DHCP

Route maps
Provide more control during route redistribution; allow filtering and altering of route metrics

DHCP server
Centralizes and reduces the cost of IPv4 address management

Warranty and support

Limited Lifetime Warranty
See https://www.hpe.com/us/en/networking/hpe-aruba-networking-support-services.html for warranty and support information included with your product purchase.

Software releases
To find software for your product, refer to http://www.hpe.com/networking/support; for details on the software releases available with your product purchase, refer to https://www.hpe.com/us/en/networking/hpe-aruba-networking-support-services.html

Configuration Information

BTO Models

Switch Chassis

Description	SKU
HPE Networking Comware Switch 24p SFP 1G 8p 10M/100M/1G Combo 4p SFP+ 1G/10G 5150EI	S5T48A
HPE Networking Comware Switch 24p 10M/100M/1G 4p SFP+ 1G/10G 5150EI	S5T49A
HPE Networking Comware Switch 24p 10M/100M/1G 4p SFP+ 1G/10G 5150EI PDU	S5T49A#B2B
HPE Networking Comware Switch 24p 10M/100M/1G 4p SFP+ 1G/10G 5150EI PDU	S5T49A#B2C
HPE Networking Comware Switch 24p 10M/100M/1G 4p SFP+ 1G/10G 5150EI 220v	S5T49A#B2E
HPE Networking Comware Switch 24p 10M/100M/1G 4p SFP+ 1G/10G 5150EI No Loc	S5T49A#AC3
HPE Networking Comware Switch 48p 10M/100M/1G 4p SFP+ 1G/10G 5150EI	S5T50A
HPE Networking Comware Switch 48p 10M/100M/1G 4p SFP+ 1G/10G 5150EI PDU	S5T50A#B2B
HPE Networking Comware Switch 48p 10M/100M/1G 4p SFP+ 1G/10G 5150EI PDU	S5T50A#B2C
HPE Networking Comware Switch 48p 10M/100M/1G 4p SFP+ 1G/10G 5150EI 220v	S5T50A#B2E
HPE Networking Comware Switch 48p 10M/100M/1G 4p SFP+ 1G/10G 5150EI No Loc	S5T50A#AC3
HPE Networking Comware Switch 24p 10M/100M/1G PoE+ 4p SFP 1G Combo 4p SFP+ 1G/10G 5150EI	S5T51A
HPE Networking Comware Switch 24p 10M/100M/1G PoE+ 4p SFP 1G Combo 4p SFP+ 1G/10G 5150EI PDU	S5T51A#B2B
HPE Networking Comware Switch 24p 10M/100M/1G PoE+ 4p SFP 1G Combo 4p SFP+ 1G/10G 5150EI PDU	S5T51A#B2C
HPE Networking Comware Switch 24p 10M/100M/1G PoE+ 4p SFP 1G Combo 4p SFP+ 1G/10G 5150EI 220v	S5T51A#B2E
HPE Networking Comware Switch 24p 10M/100M/1G PoE+ 4p SFP 1G Combo 4p SFP+ 1G/10G 5150EI No Loc	S5T51A#AC3
HPE Networking Comware Switch 48p 10M/100M/1G PoE+ 4p SFP+ 1G/10G 5150EI	S5T52A
HPE Networking Comware Switch 48p 10M/100M/1G PoE+ 4p SFP+ 1G/10G 5150EI PDU	S5T52A#B2B
HPE Networking Comware Switch 48p 10M/100M/1G PoE+ 4p SFP+ 1G/10G 5150EI PDU	S5T52A#B2C
HPE Networking Comware Switch 48p 10M/100M/1G PoE+ 4p SFP+ 1G/10G 5150EI 220v	S5T52A#B2E
HPE Networking Comware Switch 48p 10M/100M/1G PoE+ 4p SFP+ 1G/10G 5150EI No Loc	S5T52A#AC3
HPE Networking Comware Switch 8p 10M/100M/1G 2p SFP 1G 2p SFP+ 1G/10G 5150EI	S5T53A
HPE Networking Comware Switch 8p 10M/100M/1G 2p SFP 1G 2p SFP+ 1G/10G 5150EI PDU	S5T53A#B2B
HPE Networking Comware Switch 8p 10M/100M/1G 2p SFP 1G 2p SFP+ 1G/10G 5150EI PDU	S5T53A#B2C
HPE Networking Comware Switch 8p 10M/100M/1G 2p SFP 1G 2p SFP+ 1G/10G 5150EI 220v	S5T53A#B2E
HPE Networking Comware Switch 8p 10M/100M/1G 2p SFP 1G 2p SFP+ 1G/10G 5150EI No Loc	S5T53A#AC3
HPE Networking Comware Switch 8p 10M/100M/1G PoE+ 2p SFP 1G 2p SFP+ 1G/10G 5150EI	S5T54A
HPE Networking Comware Switch 8p 10M/100M/1G PoE+ 2p SFP 1G 2p SFP+ 1G/10G 5150EI PDU	S5T54A#B2B
HPE Networking Comware Switch 8p 10M/100M/1G PoE+ 2p SFP 1G 2p SFP+ 1G/10G 5150EI PDU	S5T54A#B2C
HPE Networking Comware Switch 8p 10M/100M/1G PoE+ 2p SFP 1G 2p SFP+ 1G/10G 5150EI 220v	S5T54A#B2E
HPE Networking Comware Switch 8p 10M/100M/1G PoE+ 2p SFP 1G 2p SFP+ 1G/10G 5150EI No Loc	S5T54A#AC3

Notes:

- Drop down under power supply should offer the following options and results:
  - Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C ROW. (Watson Default B2B or B2C for Rack Level CTO)
  - Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO)

Configuration Information

- High Volt Switch/Router/Power Supply to Wall Power Cord - #B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)
- No Localized Power Cord Selected - #AC3 Option

– OCA Only Model Selection Form - HPE Aruba Networking > Switches > HPE Networking Comware > Campus > 5150 EI Switch Series

Transceivers

FE SFP Transceivers

Description	SKU
HPE Networking X115 100M SFP LC FX Transceiver	JD102B
HPE Networking X110 100M SFP LC LX Transceiver	JD120B
HPE Networking X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE Networking X115 100M SFP LC BX 10-D Transceiver	JD101A

SFP Transceivers

Description	SKU
HPE Networking X120 1G SFP LC SX Transceiver	JD118B
HPE Networking X120 1G SFP LC LX Transceiver	JD119B
HPE Networking X120 1G SFP RJ45 T Transceiver	JD089B
HPE Networking X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE Networking X120 1G SFP LC BX 10-D Transceiver	JD099B
HPE Networking X120 1G SFP LC LH100 Transceiver	JD103A

SFP+ Transceivers

Description	SKU
HPE Networking X130 10G SFP+ LC BiDi 40km-Downlink Transceiver	JL740A
HPE Networking X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE Networking X130 10G SFP+ LC BiDi 40km-Uplink Transceiver	JL739A
HPE Networking X130 10G SFP+ LC LH 80km Transceiver	JG915A
HPE Networking X130 10G SFP+ LC SR Transceiver	JD092B
HPE Networking X130 10G SFP+ LC LR Transceiver	JD094B
HPE Networking X130 10G SFP+ LC BiDi 10km-Uplink Transceiver	JL737A
HPE Networking X130 10G SFP+ LC BiDi 10km-Downlink Transceiver	JL738A
HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable	JD097C
HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable	JG081C
HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable	JD095C
HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C
HPE Networking X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE Networking X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE Networking X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A

Configuration Information

Cables

Multi-Mode Cables

Description	SKU
HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 1m Cable	QK732A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 2m Cable	QK733A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 5m Cable	QK734A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 15m Cable	QK735A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 50m Cable	QK737A

Internal Power Supplies

Description	SKU
HPE Networking Comware 5150 70W AC Power Supply	S5Z19A
HPE Networking Comware 5150 70W AC Power Supply PDU	S5Z19A#B2B
HPE Networking Comware 5150 70W AC Power Supply PDU	S5Z19A#B2C
HPE Networking Comware 5150 70W AC Power Supply 220v	S5Z19A#B2E
HPE Networking Comware 5150 70W AC Power Supply No Loc	S5Z19A#AC3
HPE Networking Comware 5X50 180W DC Power Supply	S5Z23A

Notes:

- Drop down under power supply should offer the following options and results:
  - Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C ROW. (OCA Default B2B or B2C for Rack Level CTO)
  - Switch/Router/Power Supply to Wall Power Cord - Localized Option (OCA Default for BTO)
  - High Volt Switch/Router/Power Supply to Wall Power Cord - #B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)
  - No Localized Power Cord Selected - #AC3 Option
- DC Power Supply does not require Localization (CLIC Rule does not require looking for Localization)

Configuration Information

Switch Enclosure Options

Rack Mount Kits

Description	SKU
HPE Networking Comware 5140 Rack Mount Kit	R8M91A

External/Redundant Power Supplies

Description	SKU
HPE Networking RPS 800 Redundant Power Supply	JD183A
HPE Networking RPS1600 Redundant Power System	JG136A
HPE Networking RPS1600 1600W AC Power Supply	JG137A

External/Redundant Power Cables

Description	SKU
HPE Networking X290 500 V 1m RPS Cable	JD186A
HPE Networking X290 1000 A JD5 2m RPS Cable	JD187A
HPE Networking X290 1000 A JD5 NonPoE 2m RPS Cable	JD188A

Technical Specifications

HPE Networking Comware Switch Series 5150 EI				
Specifications	**S5T48A HPE NW CW Sw 24F 8G 4P 5150EI**	**S5T49A HPE NW CW Sw 24G 4P 5150EI**	**S5T50A HPE NW CW Sw 48G 4P 5150EI**	**S5T51A HPE NW CW Sw 24G PoE+ 4F 4P 5150EI**
Fixed Ports	24x 100/1000BASE-X SFP ports 8x 10/100/1000BASE-T Combo ports 4x 1G/10G BASE-X SFP+ ports	24x 10/100/1000BASE-T ports 4x 1G/10GBASE-X SFP+ ports	48x 10/100/1000BASE-T ports 4x 1G/10GBASE-X SFP ports	24x 10/100/1000BASE-T PoE+ ports 4x 100/1000BASE-X SFP Combo ports 4x 1G/10GBASE-X SFP+ ports
Additional Ports	1x RJ45 console 1x OOBM	1x RJ45 console 1x OOBM	1x RJ45 console 1x OOBM	1x RJ45 console 1x OOBM
Expansion slots	-	-	-	-
Power supplies	1+1, hot swappable			
Fans	1,internal	Fanless	Fanless	2, Internal
Physical Characteristics				
Dimensions	440mm×360mm×44mm	440mm×160mm×44mm	440mm×260mm×44mm	440mm×260mm×44mm
Weight	≤5.4kg	≤2.0kg	≤3.6kg	≤3.6kg
CPU	ARM 1.2GHz @ Dual Core	ARM 1.2GHz @ Dual Core	ARM 1.2GHz @ Dual Core	ARM 1.2GHz @ Dual Core
Memory and Flash	2GB RAM 1GB Flash	2GB RAM 1GB Flash	2GB RAM 1GB Flash	2GB RAM 1GB Flash
Packet Buffer	1.5MB	1.5MB	1.5MB	1.5MB
Performance				
Forwarding Capacity	128 Gbps	128Gbps	176Gbps	128Gbps
Throughput	95.2Mpps	95.2Mpps	130.9Mpps	95.2Mpps
Average Latency	GE: <5us 10GE:<3us	GE: <5us 10GE:<3us	GE: <5us 10GE:<3us	GE: <5us 10GE:<3us
Stacking Members	9	9	9	9
Stacking Bandwidth	80Gbps	80Gbps	80Gbps	80Gbps
Switched virtual interface	32	32	32	32
Mac Address Table	16K	16K	16K	16K
IPv4 Routes	3K	3K	3K	3K
IPv4 host table (ARP)	2K	2K	2K	2K
IPv6 Routes	750	750	750	750
IPv6 Host Table (ND)	750	750	750	750
IPv4/v6 Multicast Routes	L2 multicast 999/-	L2 multicast 999/-	L2 multicast 999/-	L2 multicast 999/-
IGMP groups	-	-	-	-
MLD groups	-	-	-	-
ACL (Ingress/Egress)	1024	1024	1024	1024
VRF	32	32	32	32

Technical Specifications

Environment				
Operating Temperature	23°F to 122°F (–5°C to 50°C)	23°F to 122°F (–5°C to 50°C)	23°F to 122°F (–5°C to 50°C)	23°F to 122°F (–5°C to 50°C)
Operating Relative Humidity	5% to 95%, noncondensing	5% to 95%, noncondensing	5% to 95%, noncondensing	5% to 95%, noncondensing
Non-operating Temperature	–40°F to 158°F (–40°C to 70°C)	–40°F to 158°F (–40°C to 70°C)	–40°F to 158°F (–40°C to 70°C)	–40°F to 158°F (–40°C to 70°C)
Non-operating storage humidity	5% to 95%, noncondensing	5% to 95%, noncondensing	5% to 95%, noncondensing	5% to 95%, noncondensing
Acoustic (ISO7779)	35.2/44.8 dB	-	-	37.6/45.5 dB
Electric Characteristics				
Max Heat Dissipation	Ranges from 37 BTU/hr to 149 BTU/hr depending on power supply configuration	Ranges from 20 BTU/hr to 70 BTU/hr depending on power supply configuration	Ranges from 45 BTU/hr to 144 BTU/hr depending on power supply configuration	Ranges from 78 BTU/hr to 1467 BTU/hr depending on power supply configuration
Power Rating	AC: 90V to 290V DC: -36V to -72V	AC: 90 to 264V	AC: 90 to 264V	AC: 90v to 290v
Power Consumption	Idle: Single AC: 11W Dual AC: 13W Single DC: 15W Dual DC: 22W Full Load: Single AC: 35W Dual AC: 37W Single DC: 37W Dual DC: 44W	Idle: Single AC: 6W Full Load: Single AC: 21W	Idle: Single AC: 13W Full Load: Single AC: 42W	Idle: Single AC: 23W Full Load: Single AC: 465W (PoE 405W)
PoE Power	-	-	-	405W PoE+
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; IEC 62368-1; CAN/CSA-C22.2 No. 60950-1; EN 62368-1/A11; FDA 21 CFR Subchapter J; RoHS Compliance			
Emissions	EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; EN 61000-4-11:2004; ANSI C63.4-2009; EN 61000-3-3:2008; VCCI V-3/2012.04; EN 61000-3-2:2006+A1:2009+A2:2009; EN 61000-4-3:2006; EN 61000-4-4:2012; EN 61000-4-5:2006; EN 61000-4-6:2009; CISPR 22:2008 Class A; EN 55022:2010 Class A; EN 61000-4-29: 2000; CISPR 24:2010; EN 300 386 V1.6.1; VCCI V-3/2013.04 Class A			
Immunity	EN 55024 EN 300 386	EN 55024 EN 300 386	EN 55024 EN 300 386	EN 55024 EN 300 386
Mounting and Enclosure	Mounts in an EIA standard 19 inch telco rack or equipment cabinet (hardware included)	Mounts in an EIA standard 19 inch telco rack or equipment cabinet (hardware included)	Mounts in an EIA standard 19 inch telco rack or equipment cabinet (hardware included)	Mounts in an EIA standard 19 inch telco rack or equipment cabinet (hardware included)
Management	IMC - Intelligent Management Center; Command-line interface; SNMP manager; SmartMC GUI			
Warranty	Limited lifetime warranty. See the warranty duration guide			

Technical Specifications

Services	See the HPE website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, contact your local HPE sales office.

HPE Networking Comware Switch Series 5150 EI (continued)

Specifications	**S5T52A HPE NW CW Sw 48G PoE+ 4P 5150EI**	**S5T53A HPE NW CW Sw 8G 2F 2P 5150EI**	**S5T54A HPE NW CW Sw 8G PoE+ 2F 2P 5150EI**
Fixed Ports	48x 10/100/1000BASE-T PoE+ ports 4x 1G/10GBASE-X SFP+ ports	8x 10/100/1000BASE-T ports 2x 1000BASE-X SFP ports 2x 1G/10G BASE-X SFP+ ports	8x 10/100/1000BASE-T PoE+ ports 2x 1000BASE-X SFP ports 2x 1G/10G BASE-X SFP+ ports
Additional Ports	1x RJ45 console 1x OOBM	1x RJ45 console 1x OOBM	1x RJ45 console 1x OOBM
Expansion slots	-	-	-
Power supplies			
Fans	2, Internal	Fanless	Fanless
Physical Characteristics			
Dimensions	440mm×260mm ×44mm	266mm×161mm×44mm	266mm×160mm×44mm
Weight	≤4.2kg	≤ 1.1KG	≤1.5kg
CPU	ARM 1.2GHz @ Dual Core	ARM 1.2GHz @ Dual Core	ARM 1.2GHz @ Dual Core
Memory and Flash	2GB RAM 1GB Flash	2GB RAM 1GB Flash	2GB RAM 1GB Flash
Packet Buffer	1.5MB	1.5MB	1.5MB
Performance			
Forwarding Capacity	176Gbps	60Gbps	60Gbps
Throughput	130.9Mpps	44.6Mpps	44.6Mpps
Average Latency	GE: <5us 10GE:<3us	GE: <5us 10GE:<3us	GE: <5us 10GE:<3us
Stacking Members	9	9	9
Stacking Bandwidth	80Gbps	40Gbps	40Gbps
Switched virtual interface	32	32	32
Mac Address Table	16K	16K	16K
IPv4 Routes	3K	3K	3K
IPv4 host table (ARP)	2K	2K	2K
IPv6 Routes	750	750	750
IPv6 Host Table (ND)	750	750	750
IPv4/v6 Multicast Routes	L2 multicast 999/-	L2 multicast 999/-	L2 multicast 999/-
IGMP groups	-	-	-
MLD groups	-	-	-
ACL (Ingress/Egress)	1024	1024	1024
VRF	32	32	32

Technical Specifications

Environment			
Operating Temperature	23°F to 122°F (–5°C to 50°C)	23°F to 122°F (–5°C to 50°C)	23°F to 122°F (–5°C to 50°C)
Operating Relative Humidity	5% to 95%, noncondensing	5% to 95%, noncondensing	5% to 95%, noncondensing
Non-operating Temperature	–40°F to 158°F (–40°C to 70°C)	–40°F to 158°F (–40°C to 70°C)	–40°F to 158°F (–40°C to 70°C)
Non-operating storage humidity	5% to 95%, noncondensing	5% to 95%, noncondensing	5% to 95%, noncondensing
Acoustic (ISO7779)	32.9/60.0 dB	-	-
Electric Characteristics			
Max Heat Dissipation	Ranges from 120 BTU/hr to 3204 BTU/hr depending on power supply configuration	Ranges from 15 BTU/hr to 53 BTU/hr depending on power supply configuration	Ranges from 28 BTU/hr to 519 BTU/hr depending on power supply configuration
Power Rating	AC: 90v to 290v	AC: 90 to 264V	AC: 90 to 264V
Power Consumption	Idle: Single AC: 35W Full Load: Single AC: 969W (PoE 770W)	Idle: Single AC: 5W Full Load: Single AC: 16W	Idle: Single AC: 8W Full Load: Single AC: 152W (PoE 125W)
PoE Power	770W PoE+	-	125W PoE+
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; IEC 62368-1; CAN/CSA-C22.2 No. 60950-1; EN 62368-1/A11; FDA 21 CFR Subchapter J; RoHS Compliance		
Emissions	EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; EN 61000-4-11:2004; ANSI C63.4-2009; EN 61000-3-3:2008; VCCI V-3/2012.04; EN 61000-3-2:2006+A1:2009+A2:2009; EN 61000-4-3:2006; EN 61000-4-4:2012; EN 61000-4-5:2006; EN 61000-4-6:2009; CISPR 22:2008 Class A; EN 55022:2010 Class A; EN 61000-4-29: 2000; CISPR 24:2010; EN 300 386 V1.6.1; VCCI V-3/2013.04 Class A		
Immunity	EN 55024 EN 300 386		
Mounting and Enclosure	Mounts in an EIA standard 19 inch telco rack or equipment cabinet (hardware included)		
Management	IMC - Intelligent Management Center; Command-line interface; SNMP manager; SmartMC GUI		
Warranty	Limited lifetime warranty. See the warranty duration guide		
Services	See the HPE website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, contact your local HPE sales office.		

Summary of Changes

Date	Version History	Action	Description of Change:
19-Oct-2026	Version 4	Changed	Survey link text was updated.
02-Feb-2025	Version 3	Changed	QuickSpecs was updated.
28-Jul-2025	Version 2	Changed	Update survey link.
02-Jun-2025	Version 1	New	New QuickSpecs

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Products within this series are IPv6 Ready certified. See the Specifications section of this series for more information.

To learn more, visit: http://www.hpe.com/networking

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