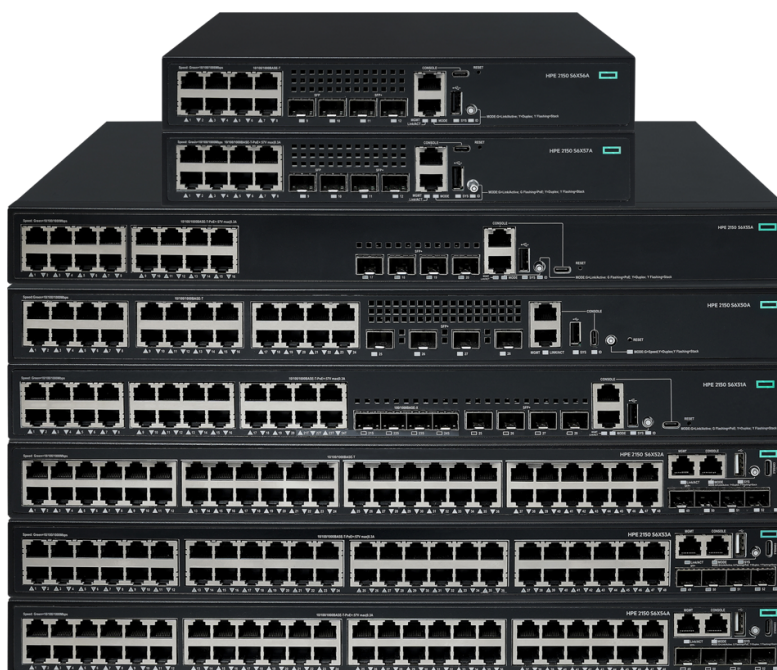


HPE Networking CW 2150 Switch Series



What's new

- Enterprise-class, fully managed, stackable Layer 3 switch series with 8, 16, 24, and 48port Class 4 PoE and nonPoE models, four 1G/10G SFP+ uplinks, and up to 770W of Class 4 PoE
- Up to 176 Gbps in nonblocking bandwidth, 130 Mpps in forwarding, and up to 9switch IRF stack
- Flexible connectivity options with four 1G/10G SFP+ uplinks in the 16, 24, and 48port models and two 1G SFP and two 1G/10G SFP+ uplinks in the 8port model

Overview

HPE Networking CW 2150 Switch Series empowers your business with reliable, high-performance networking tailored for small and medium-sized businesses and branch offices. These fully managed, stackable Layer 3 switches deliver enterprise-grade features without the complexity or high cost. With CW 2150 series, you get seamless management, robust security, and flexibility to scale as your needs grow. Designed for today's evolving networks, these switches provide affordable excellence—enabling you to connect and protect your business with confidence. Upgrade to the CW 2150 series and experience secure, simple, and powerful networking for your organization.

- Advanced Quality of Service (QoS), IPv6, and dynamic L3 protocols (RIP and OSPF) for reliable connectivity
- Fanless design in the 8port and 24/48port nonPoE models. Supports IEEE 802.3az standard for Energy Efficient Ethernet (EEE)
- Managed by Web GUI, CLI, Smart Management Center (SmartMC) web dashboard, HPE Intelligent Management Center (IMC), SNMP, and REST APIs

Features

Enterprise-class secure and reliable connectivity

The HPE Networking CW 2150 Switch Series delivers up to 176Gbps of nonblocking bandwidth and up to 131Mpps forwarding, with nine unit IRF stacking for resilient availability and link redundancy.

The CW 2150 series offers flexible connectivity with four 1G/10G SFP+ uplinks on the 16, 24, and 48 port models, and two 1G SFP plus two 1G/10G SFP+ uplinks on the 8 port model. The 24 port model adds four SFP combo ports.

Advanced Quality of Service (QoS), Internet Protocol version 6 (IPv6) and dynamic L3 protocols (RIP and OSPF) for reliable connectivity

It supports IEEE802.3az Energy Efficient Ethernet and offers a fanless design on the 8, 24, and 48port nonPoE models.

Builtin 6kV serviceport surge protection helps reduce the risk of power strikes in demanding environments such as construction sites.

Powerful PoE capabilities

The HPE Networking CW2150 Switch Series provides 125W, 248W, 405W, 390W, and 770W Class4 PoE across the 8, 16, 24, and 48port models.

It supports advanced PoE features, including fast PoE that delivers power within seconds of system startup.

Perpetual PoE supports enddevice state monitoring to help maintain power during a powersource reboot.

The PoE Watchdog function automatically removes power from a port when the connected device is no longer active.

Comprehensive security control

The HPE Networking CW2150 Switch Series provides security features and network management for modern SMB environments. Secure boot verifies digital signatures to help prevent unauthorized or malicious software from loading at startup.

With HPE IMC, the CW2150 series supports EAD by integrating terminal security policies, network access control, and access rights enforcement into a unified security framework.

It delivers multilayer access protection with granular ACLs (IPv4/IPv6, VLAN, port-based), identity-driven policies, and authentication options including 802.1X, MAC, Web, RADIUS, TACACS+, plus Guest VLAN detection and dualNIC detection with IMC.

The CW2150 series provides encrypted access using SSHv2, SSL, SNMPv3, and TLS, along with role-based privileges and audit logging.

Threat prevention features include Control Plane Policing (DoS protection), ARP and DHCP protection, ICMP throttling, port security, and source port filtering.

Simple and flexible management

The HPE Networking CW2150 Switch Series offers Web GUI, industry-standard CLI management and can be managed with other CW switches through a built-in dashboard for simplified deployment and centralized management.

Advanced management options include HPE Intelligent Management Center (IMC), HPE Networking Management Software (AirWave), SNMP managers, and REST APIs for integration with existing customer dashboards.

Technical specifications	HPE Networking CW 2150 Switch Series
Power consumption	No load: 16–35W, single AC Typical: 8–54W, single AC
Heat dissipation	119–3306 BTU/hr depending on configuration
Input voltage	Rated voltage range: 100–240V AC at 50 Hz or 60 Hz Maximum voltage range: 90–264V AC at 47 Hz to 63 Hz
Ports	8-port model: 8x 10/100/1000BASE-T, 2x 1000BASE-X SFP ports and 2x 1/10GBASE-X SFP+ ports, or 8x 10/100/1000BASE-T PoE+, 2x 1000BASE-X SFP ports and 2x 1/10GBASE-X SFP+ ports 16-port model: 16x 10/100/1000BASE-T PoE+ (125W) ports and 4x 1/10GBASE-X SFP+ ports 24-port model: 24x 10/100/1000BASE-T ports, or 24x 10/100/1000BASE-T PoE+ and 4x 100/1000BASE-X SFP Combo ports, and 4x 1/10GBASE-X SFP+ ports 48-port model: 48x 10/100/1000BASE-T ports, or 48x 10/100/1000BASE-T PoE+ (390W) ports, or 48x 10/100/1000BASE-T PoE+ (770W) ports, and 4x 1/10GBASE-X SFP+ ports Management ports: 1x RJ-45 console, 1x USB Type-C console, 1x USB and 1x OOBM management
Latency	1 GE: < 5μs 10 GE: < 3μs (64-byte packets)
Switching capacity	60–176 Gbps depending on model
Stacking capabilities	9 member IRF stack
Throughput	44–131 Mpps depending on model
Memory and processor	CPU: Dual-core Arm® at 1.2 GHz Flash: 512 MB SDRAM: 1 GB
Power supply	Fixed, 90–264V, single AC
PoE capability	125–770W depending on model
Management features	Web GUI Command Line Interface (CLI) Smart Management Center (SmartMC) HPE Intelligence Management Center (IMC) HPE Networking Management Software (AirWave) REST API SNMP
Operating temperature	-5°C–50°C (23°F–122°F)

Warranty

Limited lifetime hardware warranty. See the [warranty duration](#).

SKU comparison

	HPE Networking CW 2150 16p 10M/100M/1G PoE+ 4p SFP+ 1G/10G 248W Switch (S6X55A)	HPE Networking CW 2150 24p 10M/100M/1G 4p SFP+ 1G/10G Switch (S6X50A)	HPE Networking CW 2150 24p 10M/100M/1G PoE+ 4p SFP 1G Combo 4p SFP+ 1G/10G 405W Switch (S6X51A)
Differentiator	16p 10M/100M/1000M, 4p SFP+, 248W PoE+	24p 10M/100M/1000M, 4p SFP+	24p 10M/100M/1000M, 4p SFP 4p SFP+ Copper and Fiber Combo ports, 405W PoE+
Power consumption	Idle: 25W Typical: 38W Full load: 317W (PoE 248W)	Idle: 6W Typical: 16W Full load: 21W	Idle: 23W Typical: 35W Full load: 465W (PoE 405W)
Heat dissipation	85–1982 BTU/hr depending on configuration	28–65 BTU/hr depending on configuration	78–1587 BTU/hr depending on configuration
Input voltage	Rated voltage range: 100–240V AC at 50 Hz or 60 Hz Maximum voltage range: 90–264V AC at 47 Hz to 63 Hz	Rated voltage range: 100–240V AC at 50 Hz or 60 Hz Maximum voltage range: 90–264V AC at 47 Hz to 63 Hz	Rated voltage range: 100–240V AC at 50 Hz or 60 Hz Maximum voltage range: 90–264V AC at 47 Hz to 63 Hz
Ports	16 x 10/100/1000BASE-T PoE+ ports 4 x 1/10GBASE-X SFP+ ports 1 x RJ-45 console, 1 x USB Type-C console, 1 x USB and 1 x OOBM management	24 x 10/100/1000BASE-T ports 4 x 1/10GBASE-X SFP+ ports 1 x RJ-45 console, 1 x USB Type-C console, 1 x USB and 1 x OOBM management	24 x 10/100/1000BASE-T PoE+ ports 4 x 100/1000BASE-X SFP Combo ports 4 x 1/10GBASE-X SFP+ ports 1 x RJ-45 console, 1 x USB Type-C console, 1 x USB and 1 x OOBM management
Latency	1 GE: < 5µs 10 GE: < 3µs (64-byte packets)	1 GE: < 5µs 10 GE: < 3µs (64-byte packets)	1 GE: < 5µs 10 GE: < 3µs (64-byte packets)
Switching capacity	112 Gbps	128 Gbps	128 Gbps
Stacking capabilities	9 member IRF stack	9 member IRF stack	9 member IRF stack
Throughput	83 Mpps	95 Mpps	95 Mpps
Memory and processor	CPU: Dual-core Arm® at 1.2 GHz Flash: 512 MB SDRAM: 1 GB	CPU: Dual-core Arm® at 1.2 GHz Flash: 512 MB SDRAM: 1 GB	CPU: Dual-core Arm® at 1.2 GHz Flash: 512 MB SDRAM: 1 GB
Power supply	Fixed, 90–264V, single AC	Fixed, 90–264V, single AC	Fixed, 90–264V, single AC
PoE capability	248W	non-PoE	405W

	HPE Networking CW 2150 16p 10M/100M/1G PoE+ 4p SFP+ 1G/10G 248W Switch (S6X55A)	HPE Networking CW 2150 24p 10M/100M/1G 4p SFP+ 1G/10G Switch (S6X50A)	HPE Networking CW 2150 24p 10M/100M/1G PoE+ 4p SFP 1G Combo 4p SFP+ 1G/10G 405W Switch (S6X51A)
Management features	Web GUI Command Line Interface (CLI) Smart Management Center (SmartMC) HPE Intelligence Management Center (IMC) HPE Networking Management Software (AirWave) REST API SNMP	Web GUI Command Line Interface (CLI) Smart Management Center (SmartMC) HPE Intelligence Management Center (IMC) HPE Networking Management Software (AirWave) REST API SNMP	Web GUI Command Line Interface (CLI) Smart Management Center (SmartMC) HPE Intelligence Management Center (IMC) HPE Networking Management Software (AirWave) REST API SNMP
Operating temperature	-5°C–50°C (23°F–122°F)	-5°C–50°C (23°F–122°F)	-5°C–50°C (23°F–122°F)
Warranty	Limited lifetime hardware warranty. See the warranty duration.	Limited lifetime hardware warranty. See the warranty duration.	Limited lifetime hardware warranty. See the warranty duration.

	HPE Networking CW 2150 48p 10M/100M/1G 4p SFP+ 1G/10G Switch (S6X52A)	HPE Networking CW 2150 48p 10M/100M/1G PoE+ 4p SFP+ 1G/10G 390W Switch (S6X53A)	HPE Networking CW 2150 48p 10M/100M/1G PoE+ 4p SFP+ 1G/10G 770W Switch (S6X54A)
Differentiator	8p 10M/100M/1000M, 4p SFP+	48p 10M/100M/1000M, 4p SFP+, 390W PoE+	48p 10M/100M/1000M, 4p SFP+, 770W PoE+
Power consumption	Idle: 13W Typical: 31W Full load: 42W	Idle: 29W Typical: 54W Full load: 512W (PoE 390W)	Idle: 35W Typical: 56W Full load: 969W (PoE 770W)
Heat dissipation	44–143 BTU/hr depending on configuration	99–1747 BTU/hr depending on configuration	119–3306 BTU/hr depending on configuration
Input voltage	Rated voltage range: 100–240V AC at 50 Hz or 60 Hz Maximum voltage range: 90–264V AC at 47 Hz to 63 Hz	Rated voltage range: 100–240V AC at 50 Hz or 60 Hz Maximum voltage range: 90–264V AC at 47 Hz to 63 Hz	Rated voltage range: 100–240V AC at 50 Hz or 60 Hz Maximum voltage range: 90–264V AC at 47 Hz to 63 Hz
Ports	48 x 10/100/1000BASE-T ports 4 x 1/10GBASE-X SFP+ ports 1 x RJ-45 console, 1 x USB Type-C console, 1 x USB and 1 x OOBM management	48 x 10/100/1000BASE-T PoE+ ports 4 x 1/10GBASE-X SFP+ ports 1 x RJ-45 console, 1 x USB Type-C console, 1 x USB and 1 x OOBM management	48 x 10/100/1000BASE-T PoE+ ports 4 x 1/10GBASE-X SFP+ ports 1 x RJ-45 console, 1 x USB Type-C console, 1 x USB and 1 x OOBM management
Latency	1 GE: < 5µs 10 GE: < 3µs (64-byte packets)	1 GE: < 5µs 10 GE: < 3µs (64-byte packets)	1 GE: < 5µs 10 GE: < 3µs (64-byte packets)
Switching capacity	176 Gbps	176 Gbps	176 Gbps
Stacking capabilities	9 member IRF stack	9 member IRF stack	9 member IRF stack
Throughput	130 Mpps	130 Mpps	130 Mpps
Memory and processor	CPU: Dual-core Arm® at 1.2 GHz Flash: 512 MB SDRAM: 1 GB	CPU: Dual-core Arm® at 1.2 GHz Flash: 512 MB SDRAM: 1 GB	CPU: Dual-core Arm® at 1.2 GHz Flash: 512 MB SDRAM: 1 GB
Power supply	Fixed, 90–264V, single AC	Fixed, 90–264V, single AC	Fixed, 90–264V, single AC
PoE capability	non-PoE	non-PoE	770W
Management features	Web GUI Command Line Interface (CLI) Smart Management Center (SmartMC) HPE Intelligence Management Center (IMC) HPE Networking Management Software (AirWave) REST API SNMP	Web GUI Command Line Interface (CLI) Smart Management Center (SmartMC) HPE Intelligence Management Center (IMC) HPE Networking Management Software (AirWave) REST API SNMP	Web GUI Command Line Interface (CLI) Smart Management Center (SmartMC) HPE Intelligence Management Center (IMC) HPE Networking Management Software (AirWave) REST API SNMP
Operating temperature	-5°C–50°C (23°F–122°F)	-5°C–50°C (23°F–122°F)	-5°C–50°C (23°F–122°F)

	HPE Networking CW 2150 48p 10M/100M/1G 4p SFP+ 1G/10G Switch (S6X52A)	HPE Networking CW 2150 48p 10M/100M/1G PoE+ 4p SFP+ 1G/10G 390W Switch (S6X53A)	HPE Networking CW 2150 48p 10M/100M/1G PoE+ 4p SFP+ 1G/10G 770W Switch (S6X54A)
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Warranty

Limited lifetime hardware warranty. See the warranty duration.

Limited lifetime hardware warranty. See the warranty duration.

Limited lifetime hardware warranty. See the warranty duration.

	HPE Networking CW 2150 8p 10M/100M/1G 2p SFP 1G 2p SFP+ 1G/10G Switch (S6X56A)	HPE Networking CW 2150 8p 10M/100M/1G PoE+ 2p SFP 1G 2p SFP+ 1G/10G 125W Switch (S6X57A)
Differentiator	8p 10M/100M/1000M, 2p SFP, 2p SFP+	8p 10M/100M/1000M, 2p SFP, 2p SFP+ 125W PoE+
Power consumption	Idle: 5W Typical: 8W Full load: 16W	Idle: 8W Typical: 10W Full load: 152W (PoE 125W)
Heat dissipation	17–55 BTU/hr depending on configuration	27–519 BTU/hr depending on configuration
Input voltage	Rated voltage range: 100–240V AC at 50 Hz or 60 Hz Maximum voltage range: 90–264V AC at 47 Hz to 63 Hz	Rated voltage range: 100–240V AC at 50 Hz or 60 Hz Maximum voltage range: 90–264V AC at 47 Hz to 63 Hz
Ports	8 x 10/100/1000BASE-T ports 2 x 1000BASE-X SFP ports 2 x 1/10GBASE-X SFP+ ports 1 x RJ-45 console, 1 x USB Type-C console, 1 x USB and 1 x OOBM management	8 x 10/100/1000BASE-T PoE+ ports 2 x 1000BASE-X SFP ports 2 x 1/10GBASE-X SFP+ ports 1 x RJ-45 console, 1 x USB Type-C console, 1 x USB and 1 x OOBM management
Latency	1 GE: < 5μs 10 GE: < 3μs (64-byte packets)	1 GE: < 5μs 10 GE: < 3μs (64-byte packets)
Switching capacity	60 Gbps	60 Gbps
Stacking capabilities	9 member IRF stack	9 member IRF stack
Throughput	44 Mpps	44 Mpps
Memory and processor	CPU: Dual-core Arm® at 1.2 GHz Flash: 512 MB SDRAM: 1 GB	CPU: Dual-core Arm® at 1.2 GHz Flash: 512 MB SDRAM: 1 GB
Power supply	Fixed, 90–264V, single AC	Fixed, 90–264V, single AC
PoE capability	non-PoE	125W
Management features	Web GUI Command Line Interface (CLI) Smart Management Center (SmartMC) HPE Intelligence Management Center (IMC) HPE Networking Management Software (AirWave) REST API SNMP	Web GUI Command Line Interface (CLI) Smart Management Center (SmartMC) HPE Intelligence Management Center (IMC) HPE Networking Management Software (AirWave) REST API SNMP
Operating temperature	-5°C–50°C (23°F–122°F)	-5°C–50°C (23°F–122°F)
Warranty	Limited lifetime hardware warranty. See the warranty duration.	Limited lifetime hardware warranty. See the warranty duration.

Related Options

The following options are available for these series:

SKU	Description
Cables/Cable Kits	
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
Mounting Rack/Rail Options	
R8M91A	HPE Networking Comware 5140 Rack Mount Kit
Transceiver Options	
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
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

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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