Data sheet

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 terminalsecurity policies, networkaccess control, and accessrights enforcement into a unified security framework.

It delivers multilayer access protection with granular ACLs (IPv4/IPv6, VLAN, portbased), identitydriven 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 rolebased privileges and audit logging.

Threatprevention features include Control Plane Policing (DoS protection), ARP and DHCP protection, ICMP throttling, port security, and sourceport filtering.

Simple and flexible management

The HPE Networking CW2150 Switch Series offers Web GUI, industrystandard 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)

Technical specifications	HPE Networking CW 2150 Switch Series
Warranty	Limited lifetime hardware warranty. See the warranty duration.

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— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

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

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