Data sheet

HPE Networking CW 2050 Switch Series



What's new

- Fully managed, stackable Layer 2 switch series with 24 and 48port nonPoE and PoE models, supporting IRF stacking with up to two switches
- Four dedicated 1G/2.5G SFP uplink ports
- 24port nonPoE model includes four HPE Smart Rate 1G/2.5G ports; 24port PoE model includes four PoE++ 1G/2.5G ports delivering up to 100W per port
- Powerful PoE provides up to 420W (35W per port) to support APs, IP phones, surveillance cameras, door locks, and other IoT devices
- Fanless design on the 24port nonPoE model for acoustically sensitive environments

Overview

HPE Networking CW 2050 Switch Series is designed to empower your business with next-level connectivity. Whether you run a small or medium-sized business, or manage branch offices, the CW 2050 series offers seamless, secure, and high-performance networking without the complexity or high cost. This fully managed, stackable switch features advanced HPE Smart Rate 1G/2.5G ports and high-power PoE to support a wide range of devices, from computers to IP phones and wireless access points. With intuitive management through a web GUI and the CW dashboard, setting up and monitoring your network is simple—even for non-IT experts. For more advanced needs, the CW 2050 series integrates easily using CLI, SNMP, or REST API, ensuring compatibility with your existing systems. Choose the CW 2050 series for a reliable, scalable, and affordable solution that grows with your business.

– Flexible, simplified management with default Web GUI, SmartMC management dashboard, CLI, SNMP, and REST API for integration with customer dashboards

Features

Enterprise class-reliable performance

The CW2050 series includes four models with 24 and 48 access ports and four builtin 1G/2.5G SFP uplinks for nonblocking performance. The 24port nonPoE model includes four HPE Smart Rate 1G/2.5G ports, and the 24port PoE model includes four PoE++ 1G/2.5G ports delivering up to 100W per port.

It supports up to 116Gbps switching capacity and up to 86Mpps performance.

Twoswitch Intelligent Resilient Fabric (IRF) stacking simplifies network management and provides high availability with uninterrupted Layer2 switching and Layer3 forwarding.

It supports Layer3 static routing and IPv6.

With industryleading 6kV serviceport surgeprotection technology, the HPE Networking CW2050 Switch Series helps reduce surgestrike risks in demanding environments such as construction sites.

Powerful PoE options for WiFi7 APs and demanding IoT devices

The 24port and 48port PoE models provide power budgets of 420W and 410W, respectively, at 35W per port, supporting WiFi7 APs, IP cameras, video phones, and other devices without the need for separate power adapters or cabling.

The 24port model includes four PoE++ ports delivering up to 100W per port for added flexibility and investment protection.

Simple and flexible management

The HPE Networking CW2050 Switch Series includes a default Web GUI and can be managed alongside other CW switches with an embedded webbased dashboard designed to simplify deployment and centralize management.

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

Comprehensive security control

The CW2050 series provides multilayered access protection with granular ACLs (IPv4/IPv6, VLAN, portbased), identitydriven policies, and authentication including 802.1X, MAC, Web, RADIUS, and TACACS+, as well as Guest VLAN detection and dualNIC detection with IMC.

It supports encrypted access using SSHv2, SSL, SNMPv3, and TLS, along with rolebased privileges and audit logging.

Secure Boot verifies digital signatures to help prevent unauthorized or malicious software from loading during startup.

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

Network isolation features include Private VLANs for usertouser traffic separation.

Technical specifications	HPE Networking CW 2050 Switch Series
Power consumption	16–25W, single AC depending on configuration
Heat dissipation	21–1542 BTU/h depending on configuration
Input voltage	Rated voltage range: 100–240 VAC at 50 Hz or 60 Hz Maximum voltage range: 90–264 VAC at 47 Hz to 63 Hz
Ports	24-port non-PoE: 20x 10/100/1000BASE-T ports, 4x 1G/2.5G BASE-T ports and 4x 1G/2.5G BASE-X SFP ports 24-port PoE: 20x 10/100/1000BASE-T PoE+ ports, 4x 1G/2.5G BASE-T PoE++ ports and 4x 1G/2.5G BASE-X SFP ports 48-port non-PoE: 48x 10/100/1000BASE-T ports and 4x 1G/2.5G BASE-X SFP ports 48-port PoE: 48x 10/100/1000BASE-T PoE+ ports and 4x 1G/2.5G BASE-X SFP ports Management port: 1x RJ-45 console port
Latency	1 GE: ≤5µs (64 byte LIFO)
Switching capacity	80–116 Gbps depending on model
Stacking capabilities	Two-switch IRF stack
Throughput	59.52–86.30 Mpps
Memory and processor	CPU: Single-core Arm® at 1.25 GHz Flash: 256 MB Packet buffer: 0.5 to 1 MB
Power supply	Internal, 90V–264V AC
PoE capability	PoE+ at 35W per port, 4 PoE++ at 100W per port in 24-port model, 420W maximum
Operating temperature	-5°C–45°C (23°F–113°F)
Management features	Web GUI Command Line Interface (CLI) Smart Management Center (SmartMC) HPE Intelligence Management Center (IMC) HPE Networking Management Software (AirWave) SNMP RestAPI
Warranty	Limited lifetime hardware warranty. See the warranty duration.
Fans	0–2 depending on model

SKU comparison

	HPE Networking CW 2050 20p 10/100/1000BASE-T 4p Smart Rate 1/2.5GbE 4p SFP 1G/2.5G Switch (S6X69A)	HPE Networking CW 2050 24p 10/100/1000BT PoE+ 4p SFP 1G/2.5G 420W Switch (S6X72A)	HPE Networking CW 2050 48p 10/100/1000BASE-T 4p SFP 1G/2.5G Switch (S6X70A)	HPE Networking CW 2050 48p 10/100/1000BASE-T PoE+ 4p SFP 1G/2.5G 410W Switch (S6X71A)
Differentiator	4x HPE Smart Rate 1G/2.5GbE ports and 4x 1G/2.5G SFP uplink	4x HPE Smart Rate 1G/2.5G PoE++ ports at 100W per port, other ports at 35W per port	4x 1G/2.5G SFP uplink ports	4x 1G/2.5G SFP uplink ports 35W per port PoE+ in all ports
Power consumption	16W, AC	23W, AC	24W, AC	25W, AC
Heat dissipation	28–65 BTU/hr depending on configuration	48–1542 BTU/hr depending on configuration	21–52 BTU/hr depending on configuration	41–1020 BTU/hr depending on configuration
Input voltage	Rated voltage range: 100–240 VAC at 50 Hz or 60 Hz Maximum voltage range: 90–264 VAC at 47 Hz to 63 Hz			
Ports	20x 10/100/1000BASE-T ports 4x 1G/2.5G BASE-T ports 4x 1G/2.5G BASE-X SFP ports 1x RJ-45 console port	20x 10/100/1000BASE-T PoE+ ports 4x 1G/2.5G BASE-T PoE++ ports 4x 1G/2.5G BASE-X SFP ports 1x RJ-45 console port	48x 10/100/1000BASE-T ports 4x 1G/2.5G BASE-X SFP ports 1x RJ-45 console port	48x 10/100/1000BASE-T PoE+ ports 4x 1G/2.5G BASE-X SFP ports 1x RJ-45 console port
Latency	1 GE: ≤5s (64 byte LIFO)			
Switching capacity	80 Gbps	80 Gbps	116 Gbps	116 Gbps
Stacking capabilities	Two-switch IRF stack			
Throughput	59.52 Mpps	59.52 Mpps	86.30 Mpps	86.30 Mpps
Memory and processor	CPU: Single-core Arm® 1.25 GHz Flash: 256 MB Packet buffer: 0.5 MB	CPU: Single-core Arm® 1.25 GHz Flash: 256 MB Packet buffer: 0.5 MB	CPU: Single-core Arm® 1.25 GHz Flash: 256 MB Packet buffer: 1 MB	CPU: Single-core Arm® 1.25 GHz Flash: 256 MB Packet buffer: 1 MB
Power supply	Internal, 90V–264V AC			

	HPE Networking CW 2050 20p 10/100/1000BASE-T 4p Smart Rate 1/2.5GbE 4p SFP 1G/2.5G Switch (S6X69A)	HPE Networking CW 2050 24p 10/100/1000BT PoE+ 4p SFP 1G/2.5G 420W Switch (S6X72A)	HPE Networking CW 2050 48p 10/100/1000BASE-T 4p SFP 1G/2.5G Switch (S6X70A)	HPE Networking CW 2050 48p 10/100/1000BASE-T PoE+ 4p SFP 1G/2.5G 410W Switch (S6X71A)
PoE capability	non-PoE	20-port PoE+ at 35W /port, 4 ports PoE++ at 100W /port, 420W	non-PoE	All ports PoE+ at 35W /port, 410W
Operating temperature	-5°C–45°C (23°F–113°F)			
Management features	Web GUI Command Line Interface (CLI) Smart Management Center (SmartMC) HPE Intelligence Management Center (IMC) HPE Networking Management Software (AirWave) SNMP RestAPI			
Warranty	Limited lifetime hardware warranty. See the warranty duration.			
Fans	0	2	1	2

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— 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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