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

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.

phones, surveillance cameras, door locks, and other IoT devices

- Fanless design on the 24port nonPoE model for acoustically sensitive environments

- 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.

Technical specifications	HPE Networking CW 2050 Switch Series
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

Related Options

The following options are available for these series:

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

Related Services

The following services are available for these series:

SKU	Description
Technology Services	
H11SWE	HPE Aruba Networking Foundational Care 1Y CTR 2050 20P Swch Service
H12CFE	HPE Aruba Networking Foundational Care 1Y CTR 2050 48P POE Swch Service
H11YTE	HPE Aruba Networking Foundational Care 1Y CTR 2050 48P Swch Service
H11WJE	HPE Aruba Networking Foundational Care 1Y CTR CDMR 2050 20P POE Swch Service
H11SXE	HPE Aruba Networking Foundational Care 1Y CTR CDMR 2050 20P Swch Service
H12CGE	HPE Aruba Networking Foundational Care 1Y CTR CDMR 2050 48P POE Swch Service
H11WWE	HPE Aruba Networking Foundational Care 3Y CTR 2050 20P POE Swch Service
H11TKE	HPE Aruba Networking Foundational Care 3Y CTR 2050 20P Swch Service
H12CTE	HPE Aruba Networking Foundational Care 3Y CTR 2050 48P POE Swch Service
H11WXE	HPE Aruba Networking Foundational Care 3Y CTR CDMR 2050 20P POE Swch Service
H11TLE	HPE Aruba Networking Foundational Care 3Y CTR CDMR 2050 20P Swch Service
H11ZJE	HPE Aruba Networking Foundational Care 3Y CTR CDMR 2050 48P Swch Service
H11XKE	HPE Aruba Networking Foundational Care 5Y CTR 2050 20P POE Swch Service
H11TYE	HPE Aruba Networking Foundational Care 5Y CTR 2050 20P Swch Service
H12DHE	HPE Aruba Networking Foundational Care 5Y CTR 2050 48P POE Swch Service

H11ZWE	HPE Aruba Networking Foundational Care 5Y CTR 2050 48P Swch Service
H11XLE	HPE Aruba Networking Foundational Care 5Y CTR CDMR 2050 20P POE Swch Service
H11TZE	HPE Aruba Networking Foundational Care 5Y CTR CDMR 2050 20P Swch Service
H11ZXE	HPE Aruba Networking Foundational Care 5Y CTR CDMR 2050 48P Swch Service
H11WHE	HPE Networking Essential Care 1 year CTR Onsite 205020PPOE Service
H11YVE	HPE Networking Essential Care 1 year CTR Onsite CDMR 205048P Service
H11SME	HPE Networking Essential Care 1 year Next Day Hw Only 205020P Service
H11VYE	HPE Networking Essential Care 1 year Next Day Hw Only 205020PPOE Service
H12BWE	HPE Networking Essential Care 1 year Next Day Hw Only 205048PPOE Service
H11VZE	HPE Networking Essential Care 1 year Same Day 205020PPOE Service
H11YLE	HPE Networking Essential Care 1 year Same Day 205048P Service
H11STE	HPE Networking Essential Care 1 year Same Day Onsite 205020P Service
H11YRE	HPE Networking Essential Care 1 year Same Day Onsite 205048P Service
H11SVE	HPE Networking Essential Care 1 year Same Day Onsite CDMR 205020P Service
H11WDE	HPE Networking Essential Care 1 year Same Day Onsite Hw Only 205020PPOE Service
H11ZHE	HPE Networking Essential Care 3 years CTR Onsite 205048P Service
H12CVE	HPE Networking Essential Care 3 years CTR Onsite CDMR 205048PPOE Service
H11YXE	HPE Networking Essential Care 3 years Next Day 205048P Service
H11WKE	HPE Networking Essential Care 3 years Next Day Hw Only 205020PPOE Service
H12CLE	HPE Networking Essential Care 3 years Next Day Onsite 205048PPOE Service
H11TDE	HPE Networking Essential Care 3 years Next Day Onsite CDMR 205020P Service
H11WQE	HPE Networking Essential Care 3 years Next Day Onsite CDMR 205020PPOE Service
H12CRE	HPE Networking Essential Care 3 years Same Day Onsite 205048PPOE Service
H11TGE	HPE Networking Essential Care 3 years Same Day Onsite Hw Only 205020P Service
H12DJE	HPE Networking Essential Care 5 years CTR Onsite CDMR 205048PPOE Service
H11WZE	HPE Networking Essential Care 5 years Next Day 205020PPOE Service
H11ZLE	HPE Networking Essential Care 5 years Next Day 205048P Service
H11TME	HPE Networking Essential Care 5 years Next Day Hw Only 205020P Service
H11WYE	HPE Networking Essential Care 5 years Next Day Hw Only 205020PPOE Service
H11XCE	HPE Networking Essential Care 5 years Next Day Onsite 205020PPOE Service
H12DBE	HPE Networking Essential Care 5 years Next Day Onsite CDMR 205048PPOE Service
H11XGE	HPE Networking Essential Care 5 years Same Day Onsite Hw Only 205020PPOE Service
H12DDE	HPE Networking Essential Care 5 years Same Day Onsite Hw Only 205048PPOE Service
H11YKE	HPE Networking Services-Essential Care 1 Year Next Day HW Support 205048P
H11SRE	HPE Networking Services-Essential Care 1 Year Next Day Onsite CDMR Support 205020P
H11WCE	HPE Networking Services-Essential Care 1 Year Next Day Onsite CDMR Support 205020PPOE

H11YNE	HPE Networking Services-Essential Care 1 Year Next Day Onsite CDMR Support 205048P
H12BZE	HPE Networking Services-Essential Care 1 Year Next Day Onsite CDMR Support 205048PPOE
H11SQE	HPE Networking Services-Essential Care 1 Year Next Day Onsite Support 205020P
H11WBE	HPE Networking Services-Essential Care 1 Year Next Day Onsite Support 205020PPOE
H11YME	HPE Networking Services-Essential Care 1 Year Next Day Onsite Support 205048P
H12BYE	HPE Networking Services-Essential Care 1 Year Next Day Onsite Support 205048PPOE
H11SLE	HPE Networking Services-Essential Care 1 Year Next Day Support 205020P
H11VXE	HPE Networking Services-Essential Care 1 Year Next Day Support 205020PPOE
H11YJE	HPE Networking Services-Essential Care 1 Year Next Day Support 205048P
H12BVE	HPE Networking Services-Essential Care 1 Year Next Day Support 205048PPOE
H11WGE	HPE Networking Services-Essential Care 1 Year Same Day Onsite CDMR Support 205020PPOE
H11YSE	HPE Networking Services-Essential Care 1 Year Same Day Onsite CDMR Support 205048P
H12CDE	HPE Networking Services-Essential Care 1 Year Same Day Onsite CDMR Support 205048PPOE
H11SSE	HPE Networking Services-Essential Care 1 Year Same Day Onsite HW Support 205020P
H11YQE	HPE Networking Services-Essential Care 1 Year Same Day Onsite HW Support 205048P
H12CBE	HPE Networking Services-Essential Care 1 Year Same Day Onsite HW Support 205048PPOE
H11WFE	HPE Networking Services-Essential Care 1 Year Same Day Onsite Support 205020PPOE
H12CCE	HPE Networking Services-Essential Care 1 Year Same Day Onsite Support 205048PPOE
H11SNE	HPE Networking Services-Essential Care 1 Year Same Day Support 205020P
H12BXE	HPE Networking Services-Essential Care 1 Year Same Day Support 205048PPOE
H11SYE	HPE Networking Services-Essential Care 3 Year Next Day HW Support 205020P
H11YWE	HPE Networking Services-Essential Care 3 Year Next Day HW Support 205048P
H12CHE	HPE Networking Services-Essential Care 3 Year Next Day HW Support 205048PPOE
H11ZBE	HPE Networking Services-Essential Care 3 Year Next Day Onsite CDMR Support 205048P
H12CME	HPE Networking Services-Essential Care 3 Year Next Day Onsite CDMR Support 205048PPOE
H11TCE	HPE Networking Services-Essential Care 3 Year Next Day Onsite Support 205020P
H11WNE	HPE Networking Services-Essential Care 3 Year Next Day Onsite Support 205020PPOE
H11YZE	HPE Networking Services-Essential Care 3 Year Next Day Onsite Support 205048P
H11SZE	HPE Networking Services-Essential Care 3 Year Next Day Support 205020P
H11WLE	HPE Networking Services-Essential Care 3 Year Next Day Support 205020PPOE
H12CJE	HPE Networking Services-Essential Care 3 Year Next Day Support 205048PPOE
H11TJE	HPE Networking Services-Essential Care 3 Year Same Day Onsite CDMR Support 205020P
H11WVE	HPE Networking Services-Essential Care 3 Year Same Day Onsite CDMR Support 205020PPOE
H11ZGE	HPE Networking Services-Essential Care 3 Year Same Day Onsite CDMR Support 205048P
H12CSE	HPE Networking Services-Essential Care 3 Year Same Day Onsite CDMR Support 205048PPOE
H11WSE	HPE Networking Services-Essential Care 3 Year Same Day Onsite HW Support 205020PPOE

H11ZDE	HPE Networking Services-Essential Care 3 Year Same Day Onsite HW Support 205048P
H12CQE	HPE Networking Services-Essential Care 3 Year Same Day Onsite HW Support 205048PPOE
H11THE	HPE Networking Services-Essential Care 3 Year Same Day Onsite Support 205020P
H11WTE	HPE Networking Services-Essential Care 3 Year Same Day Onsite Support 205020PPOE
H11ZFE	HPE Networking Services-Essential Care 3 Year Same Day Onsite Support 205048P
H11TBE	HPE Networking Services-Essential Care 3 Year Same Day Support 205020P
H11WME	HPE Networking Services-Essential Care 3 Year Same Day Support 205020PPOE
H11YYE	HPE Networking Services-Essential Care 3 Year Same Day Support 205048P
H12CKE	HPE Networking Services-Essential Care 3 Year Same Day Support 205048PPOE
H11ZKE	HPE Networking Services-Essential Care 5 Year Next Day HW Support 205048P
H12CWE	HPE Networking Services-Essential Care 5 Year Next Day HW Support 205048PPOE
H11TSE	HPE Networking Services-Essential Care 5 Year Next Day Onsite CDMR Support 205020P
H11XDE	HPE Networking Services-Essential Care 5 Year Next Day Onsite CDMR Support 205020PPOE
H11ZQE	HPE Networking Services-Essential Care 5 Year Next Day Onsite CDMR Support 205048P
H11TRE	HPE Networking Services-Essential Care 5 Year Next Day Onsite Support 205020P
H11ZNE	HPE Networking Services-Essential Care 5 Year Next Day Onsite Support 205048P
H12CZE	HPE Networking Services-Essential Care 5 Year Next Day Onsite Support 205048PPOE
H11TNE	HPE Networking Services-Essential Care 5 Year Next Day Support 205020P
H12CXE	HPE Networking Services-Essential Care 5 Year Next Day Support 205048PPOE
H11TXE	HPE Networking Services-Essential Care 5 Year Same Day Onsite CDMR Support 205020P
H11XJE	HPE Networking Services-Essential Care 5 Year Same Day Onsite CDMR Support 205020PPOE
H11ZVE	HPE Networking Services-Essential Care 5 Year Same Day Onsite CDMR Support 205048P
H12DGE	HPE Networking Services-Essential Care 5 Year Same Day Onsite CDMR Support 205048PPOE
H11TVE	HPE Networking Services-Essential Care 5 Year Same Day Onsite HW Support 205020P
H11ZSE	HPE Networking Services-Essential Care 5 Year Same Day Onsite HW Support 205048P
H11TWE	HPE Networking Services-Essential Care 5 Year Same Day Onsite Support 205020P
H11XHE	HPE Networking Services-Essential Care 5 Year Same Day Onsite Support 205020PPOE
H11ZTE	HPE Networking Services-Essential Care 5 Year Same Day Onsite Support 205048P
H12DFE	HPE Networking Services-Essential Care 5 Year Same Day Onsite Support 205048PPOE
H11TQE	HPE Networking Services-Essential Care 5 Year Same Day Support 205020P
H11XBE	HPE Networking Services-Essential Care 5 Year Same Day Support 205020PPOE
H11ZME	HPE Networking Services-Essential Care 5 Year Same Day Support 205048P
H12CYE	HPE Networking Services-Essential Care 5 Year Same Day Support 205048PPOE

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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