Cisco Catalyst CW9800H1 and CW9800H2 Wireless Controllers

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Product overview



Figure 1.
CW9800H1 Wireless Controller



Figure 2.
CW9800H2 Wireless Controller

Engineered from the ground up to be the most powerful and energy-efficient wireless controllers Cisco has ever developed, the Cisco Catalyst ™ CW9800H1 and CW9800H2 wireless controllers boast up to a 36% increase in performance and consume up to 40% less power compared to the Catalyst 9800-80. Additionally, both the CW9800H1 and CW9800H2 models are built with a space-saving single-rack-unit design, giving you flexibility within your data centers. Together, these advancements, along with a host of innovative features, deliver a best-in-class wireless solution tailored to accommodate the dynamic and evolving needs of your organization.

The emergence of 6GHz Wi-Fi, along with the rise of new devices, cloud-based applications, smart workplaces, and IoT, calls for a new approach to network deployments, management, and troubleshooting. These new applications and increasing demands are met head-on by the powerful and efficient Cisco Catalyst CW9800 wireless controllers, which are engineered to address your most stringent needs and set the stage for the future.

The Cisco Catalyst CW9800 wireless controllers, built on Cisco IOS® XE, are specifically designed to thrive in dynamic environments, offering simplicity, security, and sustainability. In conjunction with the comprehensive suite of Cisco Catalyst solutions, the CW9800 wireless controllers deliver an unmatched wireless experience, catering to the growing demands of your organization. By integrating these controllers with Cisco Catalyst Center, you can harness applied AI for analytics and insights, automate intricate tasks, and enhance troubleshooting efficiency—helping ensure optimal user experiences and enabling you to focus on your organization's wider strategic objectives.

The Cisco Catalyst CW9800H1 and CW9800H2 support up to 6000 access points and 64,000 clients with up to 100Gbps of maximum throughput. Additionally, they offer your choice of uplinks with either 4 x 25 Gbps (CW9800H1) or 2 x 40 Gbps (CW9800H2) configurations to meet the high throughput demands of next-generation wireless. The Cisco Catalyst CW9800H1 and CW9800H2 are feature rich with high-performance capabilities to power your business-critical operations and transform user experiences:

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- High availability and seamless software updates, enabled by hot patching, keep your clients and services **always on** in planned and unplanned events.
- Secure the airwaves, devices, and users with the Cisco Catalyst CW9800H1 and CW9800H2. Wireless infrastructure becomes the strongest first line of defense with Cisco® Encrypted Traffic Analytics (ETA) and Software-Defined Access (SD-Access). Additionally, because the Cisco Catalyst CW9800H1 and CW9800H2 controllers are designed for Wi-Fi Protected Access 3 (WPA3) and beyond, **security** is front and center. This includes Secure Boot, runtime defenses, image signing, integrity verification, and hardware authenticity. The Catalyst CW9800H1 and CW9800H2 also support hardware cryptographic offload to enable advanced encryption without any performance degradation.
- The CW9800H1 and CW9800H2 feature open and programmable APIs that enable **automation** of day-0 to day-N network operations. Model-driven streaming telemetry provides deep insights into the **health of your network and clients**.
- Cisco User Defined Network Plus, allows IT to give end users control of their very own wireless network partition on a shared network. End users can then remotely and securely deploy their devices on this network. Perfect for university dormitories or extended hospital stays, Cisco User Defined Network Plus advanced control, allowing each user to choose who can connect to their network.
- The CW9800 wireless controllers offer support for application hosting, enabling you to reduce your dependence on IoT overlay networks and consequently save on both CapEx and OpEx. With this feature, you can upload, deploy, and manage Cisco IOx applications directly on your Catalyst access points. It also provides third-party developers with the capability to create and run containerized applications using Docker, with access to designated CW9800 resources. This integration facilitates streamlined operations and enhances the overall efficiency of your network infrastructure.
- With Cloud Monitoring for Catalyst Wireless, you get a unified view of your Cisco infrastructure to help with troubleshooting including root cause analysis of network and client issues. Cloud monitoring is delivered through the Cisco Meraki® dashboard, included in Cisco DNA Essentials and Advantage, and helps you ensure the delivery of services while maximizing network performance and uptime. Additionally, because it is cloud based, you can access it anywhere. And best of all, it uses your existing hardware without the need for an immediate upgrade. Cloud monitoring for CW9800 wireless controllers will be available in a future software release.
- With Cisco In-Service Software Upgrade (ISSU), network downtime during a software update or upgrade is a thing of the past. ISSU performs a complete image upgrade and update while the network is still running. The software image—or patch—is pushed onto the wireless controller while traffic forwarding continues uninterrupted. All access point and client sessions are retained during the upgrade process. With just a click, your network automatically upgrades to the newest software.

Feature highlights

The Catalyst CW9800H1 and CW9800H2 boast a fully programmable multicore network processor that improves controller performance by up to 36% while consuming up to 40% less power when compared to the Catalyst 9800-80. It offers both 1 Gbps RJ-45 and 1/10 Gbps Small Form-Factor Pluggable (SFP) High Availability (HA) ports, giving you the option of using either 4 x 25 Gbps (CW9800H1) or 2 x 40 Gbps (CW9800H2) uplinks, depending on your requirements. The CW9800H1 and CW9800H2 are also sized to reduce rack space, coming in a single rack unit that gives you more deployment flexibility.

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Features

Table 1. Key features

Metric	Value
Maximum number of access points	6000
Maximum number of clients	64,000
Maximum throughput	Up to 100 Gbps
Maximum WLANs	4096
Maximum VLANs	4096
Maximum site tags	6000
Maximum Flex APs per site	300
Maximum policy tags	6000
Maximum RF tags	6000
Maximum RF profiles	12000
Maximum policy profiles	1000
Maximum Flex profiles	6000
Fixed uplinks	8x 1/10 Gbps SFP+ 4x 25 Gbps SFP+ (CW9800H1) 2x 40 Gbps SFP+ (CW9800H2)
Redundant power supply	AC or DC power supply
Maximum power consumption with modules	500W
Deployment modes	Centralized, Cisco FlexConnect®, and fabric wireless (SD-Access)
Form factor	1RU
License	Smart License enabled
Operating system	Cisco IOS XE
Management	Integrated WebUI, Cisco Catalyst Center, and third party (open standards APIs)*
Policy engine	Cisco Identity Services Engine (ISE)*

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Metric	Value
Location platform	Cisco Spaces*
Access points	It supports Cisco Access Points from the following generations: Wi-Fi 5 Wave 2 (802.11ac Wave 2), Wi-Fi 6/6E (802.11ax), and Wi-Fi 7 (802.11be) Standard Power supported with Automated Frequency Coordination where applicable

* **For information on compatibility, see the** Compatibility Guide.

Always on

Seamless software updates enable faster resolution of critical issues, introduction of new access points with zero downtime, and flexible software upgrades. Stateful Switchover (SSO) with 1:1 active standby and N+1 redundancy keeps your network, services, and clients always on, even during unplanned events. Cisco Advanced Wireless Intrusion Prevention System (aWIPS) is a complete wireless security solution that uses the Cisco Unified Access® infrastructure to detect, locate, mitigate, and contain wired and wireless rogues and threats.

Secure

Secure airwaves, devices, and users with the Cisco Catalyst CW9800 Wireless Controllers. Wireless infrastructure becomes the strongest first line of defense with ETA and SD-Access. The controller comes with built-in security: Secure Boot, runtime defenses, image signing, integrity verification, and hardware authenticity.

Open and programmable

The controller is built on the Cisco IOS XE operating system, which offers a rich set of open standards-based programmable APIs and model-driven telemetry that provide an easy way to automate day-0 to day-N network operations.

Details



Figure 3.
Cisco Catalyst CW9800H1



Figure 4.
Cisco Catalyst CW9800H2

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Physical dimensions

Table 2. Physical dimensions

Dimension	Value
Width	17.5 inches (44.45 cm)
Depth	19.87 inches (50.47 cm)
Height	1.73 inches (4.39 cm)
Weight	20.5 lb (9.3 kg)

Front panel

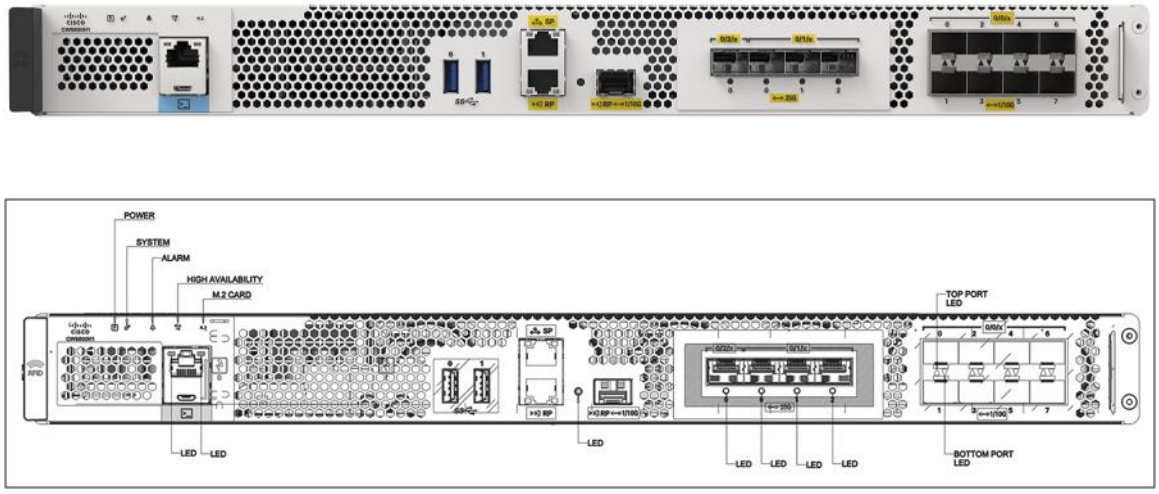


Figure 5.
CW9800H1 Front panel

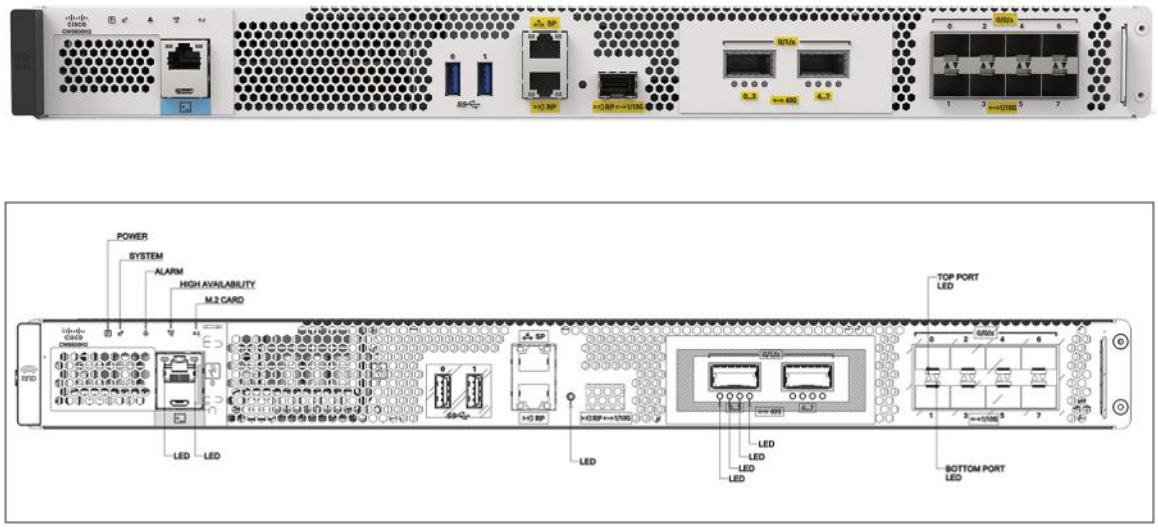


Figure 6.
CW9800H2 Front panel

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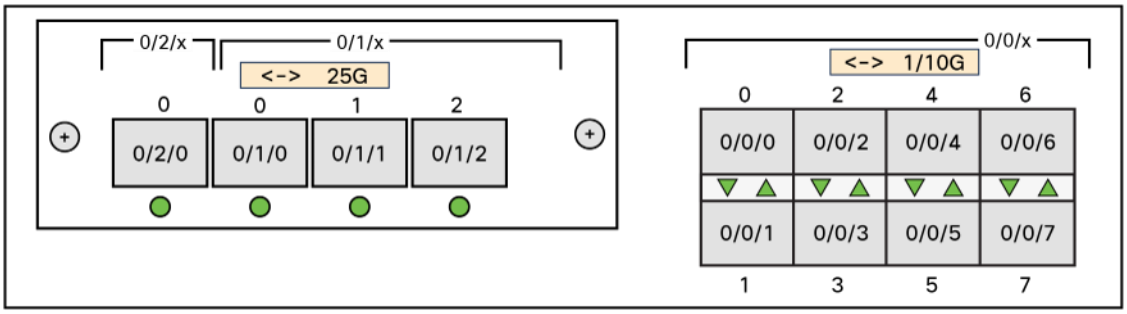


Figure 7.
CW9800H1 port identification

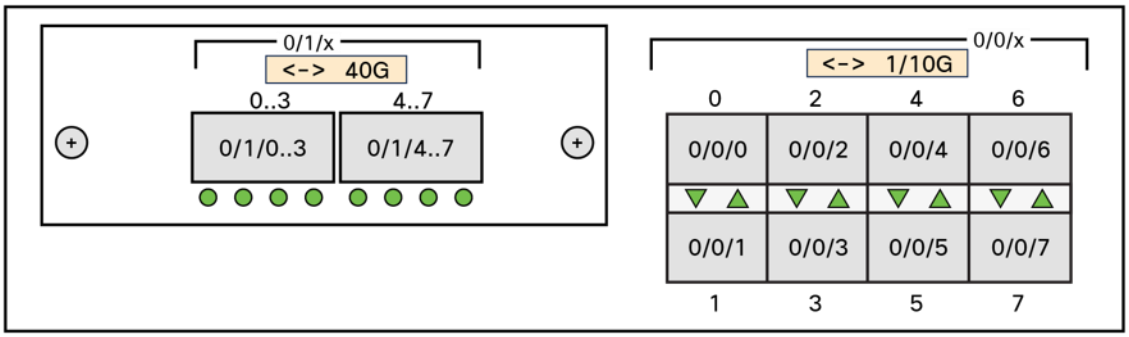


Figure 8.
CW9800H2 port identification

Ports

Table 3. Ports and their purposes

Port	Purpose
1x RJ-45 console port	Console port for out-of-band management
1x USB 3.0 console port	Console port for out-of-band management
2x USB 3.0 ports	USB 3.0 ports for plugging in external memory
1x RJ-45 management port	Management port for out-of-band management. Also known as service port.
1x RJ-45 redundancy port	Redundancy port used for SSO
1x SFP 10 Gbps Ethernet redundancy port	Redundancy port used for SSO; works with Cisco supported SFPs for redundancy port
Fixed uplink ports	8x 1/10 Gbps SFP+ 4x 25 Gbps SFP+ (CW9800H1) 2x 40 Gbps SFP+ (CW9800H2)

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Front panel LEDs

Table 4. Front panel LEDs

LED	Color	Function
Power **PWR**	Green	Green if all power rails are within spec
STATUS **SYS**	Green	On: IOS boot is complete. Blinking: IOS boot is in progress.
	Amber	On: System crash Blinking: Secure Boot failure. Off: ROMMON boot.
ALARM **ALM**	Green	On: ROMMON boot is complete. Blinking: System upgrade in progress.
	Amber	On: ROMMON boot and SYSTEM bootup. Blinking: Temperature error and Secure Boot failure.
HIGH AVAILABILITY **HA**	Green	On: HA active. Blinking: HA standby hot.
	Amber	Slow blink: Booted with HA standby cold. Fast blink: HA maintenance.
USB CON ENABLED **EN**	Green	When lit, USB console is enabled (RJ-45 console is disabled).
10/100/1000 RJ45 I/F **LINK**	Green	Solid green indicates link.
10/100/1000 RJ45 I/F **ACTIVITY**	Green	Flashing green indicates activity.
SSD Activity **SSD**	Green	Indicates active use of the hard disk SSD memory devices in the unit.

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Rear panel

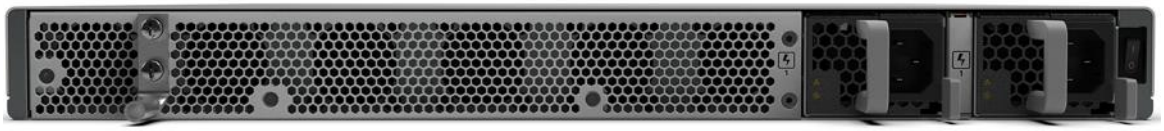


Figure 9.
Rear panel

The chassis has a front-to-rear airflow.

- Four internal fans draw cooling air in through the front of the chassis and across the internal components to maintain an acceptable operating temperature.
- The fans are located at the rear of the chassis.

Power

The CW9800H1 and CW9800H2 controllers ship with redundant power supply units, either AC or DC, based on the customer's choice.

The Power Entry Module (PEM) provides redundant power to the system, and the CW9800H1 and CW9800H2 can operate continuously with only a single PEM installed. The PEMs are hot-swappable, and replacement of a single PEM can be made without power interruption to the system. All external connections to the PEMs are made from the rear panel of the chassis, and they are removed or inserted from the rear. The main power switch for the unit is located directly next to the PEMs on the rear of the chassis.

Table 5. Power supply options

Power supply condition	Green (OK) LED status	Amber (fail) LED status
No AC power to all power supplies	Off	Off
Power supply failure (includes over voltage, over current, over temperature, and fan failure)	Off	Red for power supply failure Amber for fan failure
Power supply warning events in which the power supply continues to operate (high temperature, high power, and slow fan)	Off	1 Hz blinking

Note: Redundancy is supported with the same power supply types.

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SFPs supported

- All 1, 10, 25, and 40 Gbps ports can be configured independently.
- Online Insertion and Removal (OIR) for SFP, SFP+, and QSFP.
- Modules are hot-swappable.

Table 6. SFPs supported

Type	Modules supported
Small Form-Factor Pluggable (SFP)	GLC-BX-D GLC-BX-U GLC-EX-SMD GLC-LH-SMD GLC-SX-MMD GLC-TE GLC-ZX-SMD
SFP (for RP ports)	GLC-SX-MMD GLC-LH-SMD SFP-10G-SR SFP-10G-SR-S SFP-10G-LR SFP-10G-LR-S
Enhanced SFP (SFP+)	Finisar-LR (FTLX1471D3BCL) Finisar-SR (FTLX8574D3BC) SFP-10G-AOC10M SFP-10G-AOC1M SFP-10G-AOC2M SFP-10G-AOC3M SFP-10G-AOC5M SFP-10G-AOC7M SFP-10G-BXD-I SFP-10G-BXU-I SFP-10G-ER SFP-10G-LR SFP-10G-LR-S SFP-10G-LR-X SFP-10G-SR SFP-10G-SR-S SFP-10G-T-X (17.18.3+)

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Type	Modules supported
	SFP-H10GB-ACU10M
	SFP-H10GB-ACU7M
	SFP-H10GB-CU1-5M
	SFP-H10GB-CU1M
	SFP-H10GB-CU2-5M
	SFP-H10GB-CU2M
	SFP-H10GB-CU3M
	SFP-H10GB-CU5M
SFP28 **CW9800H1 Only**	SFP-10/25G-CSR-S*
	SFP-10/25G-LR-S*
	SFP-25G-AOC10M
	SFP-25G-AOC1M
	SFP-25G-AOC2M
	SFP-25G-AOC3M
	SFP-25G-AOC5M
	SFP-25G-AOC7M
	SFP-25G-SR-S
Quad SFP (QSFP) **CW9800H2 only**	QSFP-40G-CSR4
	QSFP-40G-ER4
	QSFP-40G-LR4
	QSFP-40G-LR4-S
	QSFP-40G-SR4
	QSFP-40G-SR4-S
	QSFP-40G-SR-BD
	QSFP-H40G-ACU10M
	QSFP-H40G-ACU7M
	QSFP-H40G-AOC10M
	QSFP-H40G-AOC15M
	QSFP-H40G-AOC1M
	QSFP-H40G-AOC20M
	QSFP-H40G-AOC25M
	QSFP-H40G-AOC2M
	QSFP-H40G-AOC30M
	QSFP-H40G-AOC3M
	QSFP-H40G-AOC5M
	QSFP-H40G-AOC7M
	QSFP-H40G-CU0-5M

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Type	Modules supported
	QSFP-H40G-CU1M
	QSFP-H40G-CU2M
	QSFP-H40G-CU3M
	QSFP-H40G-CU4M
	QSFP-H40G-CU5M

*Operates at 10G when connected to CW9800H2 1/10G SFP+ ports

Benefits

Cisco IOS XE opens a completely new paradigm in network configuration, operation, and monitoring through network automation. Cisco's automation solution is open, standards-based, and extensible across the entire lifecycle of a network device. The various mechanisms that bring about network automation are outlined below, based on a device lifecycle.

- **Automated device provisioning:** This is the ability to automate the process of upgrading software images and installing configuration files on Cisco access points when they are being deployed in the network for the first time. Cisco provides turnkey solutions such as Plug and Play (PnP) that enable an effortless and automated deployment.
- **API-driven configuration:** Modern wireless controllers such the Cisco Catalyst CW9800H1 and CW9800H2 support a wide range of automation features and provide robust open APIs over Network Configuration Protocol (NETCONF) using YANG data models for external tools, both off-the-shelf and custom built, to automatically provision network resources.
- **Granular visibility:** Model-driven telemetry provides a mechanism to stream data from a wireless controller to a destination. The data to be streamed is driven through subscription to a data set in a YANG model. The subscribed data set is streamed out to the destination at configured intervals. Additionally, Cisco IOS XE enables the push model, which provides near-real-time monitoring of the network, leading to quick detection and rectification of failures.
- **Seamless software upgrades and patching:** To enhance OS resilience, Cisco IOS XE supports patching, which provides fixes for critical bugs and security vulnerabilities between regular maintenance releases. This support allows customers to add patches without having to wait for the next maintenance release.

Always on

- **High Availability:** Stateful switchover with 1:1 active standby and N+1 redundancy keeps your network, services, and clients always on, even in unplanned events.
- **Software Maintenance Upgrades (SMUs) with hot patching:** Patching allows for a patch to be installed as a bug fix without bringing down the entire network and eliminates the need to requalify an entire software image. The SMU is a package that can be installed on a system to provide a patch fix or security resolution to a released image. SMUs allow you to address the network issue quickly while reducing the time and scope of the testing required. The Cisco IOS XE platform internally validates the SMU compatibility and does not allow you to install incompatible SMUs. All SMUs are integrated into the subsequent Cisco IOS XE Software maintenance releases.

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- **Intelligent rolling access point upgrades and seamless multisite upgrades:** The Cisco Catalyst CW9800H1 and CW9800H2 wireless controllers comes equipped with intelligent rolling access point upgrades to simplify network operations. Multisite upgrades can now be done in stages, and access points can be upgraded intelligently without restarting the entire network.
- Standby monitoring of the Cisco Catalyst CW9800H1 and CW9800H2 in high-availability mode enables you to monitor the health of the system on a standby controller in a high-availability pair using programmatic interfaces (NETCONF/YANG, RESTCONF) and Command Line Interfaces (CLIs) without going through the active controller. For more details refer to the technical documentation.
- **In-Service Software Upgrade (ISSU):** ISSU is a complete image upgrade/update with zero downtime while the network is still on. The software image or a patch is pushed onto the wireless controller while traffic forwarding continues uninterrupted. All access point and client sessions are retained during the upgrade process.

  With just a click, your network automatically upgrades to the newest software. Your backup 9800 controller receives the new software that is pushed via the active 9800 controller. The backup controller becomes active and takes over your network, while your previously active controller turns into a backup controller and processes the software upgrade. Using an intelligent RF-based rolling access point upgrade, all access points are upgraded in a staggered fashion without impacting any wireless session. This procedure is carried out without any manual intervention natively from the controller and without the need for an external orchestrator or additional licenses.

Security

- **Encrypted Traffic Analytics (ETA):** ETA is a unique capability for identifying malware in encrypted traffic coming from the access layer. Since more and more traffic is being encrypted, the visibility this feature provides related to threat detection is critical for keeping your network secure at different layers.
- **Trustworthy systems:** Cisco Trust Anchor Technologies provide a highly secure foundation for Cisco products. With the Cisco Catalyst CW9800H1 and CW9800H2, these trustworthy systems help assure hardware and software authenticity for supply chain trust and strong mitigation against man-in-the-middle attacks on software and firmware. Trust Anchor capabilities include:
- **Image signing:** Cryptographically signed images provide assurance that the firmware, BIOS, and other software are authentic and unmodified. As the system boots, its software signatures are checked for integrity.
- **Secure Boot:** Cisco Secure Boot technology anchors the boot sequence chain of trust to immutable hardware, mitigating threats against a system's foundational state and the software that is to be loaded, regardless of a user's privilege level. It provides layered protection against the persistence of illicitly modified firmware.
- **Cisco Trust Anchor Module:** A tamper-resistant, strong cryptographic, single-chip solution hardware solution uniquely identifies the product so that its origin can be confirmed to Cisco, providing assurance that the product is genuine.

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- **Cisco Wireless Intrusion Prevention System (WIPS):** WIPS offers advanced network security to detect, locate, mitigate, and contain any intrusion or threat on your wireless network. It can monitor and detect wireless network anomalies, unauthorized access, and RF attacks. A new, dedicated classification engine for rogues and aWIPS is built on Cisco Catalyst Center. A fully integrated stack for the WIPS solution includes Cisco Catalyst Center, a Cisco Catalyst 9800 series controller, Wave 2, and Cisco Catalyst 9100 Access Points. This new architecture provides improved detection and security, simplicity, and ease of use, and fewer false positive alarms.

Flexible NetFlow

- **Flexible NetFlow (FNF):** Cisco IOS FNF is the next generation in flow visibility technology, allowing optimization of the network infrastructure, reducing operating costs, and improving capacity planning and security incident detection with increased flexibility and scalability.

Application visibility and control

- **Next-Generation Network-Based Application Recognition (NBAR2):** NBAR2 enables advanced application classification techniques, with up to 1400 predefined and well-known application signatures and up to 150 encrypted applications on the Cisco Catalyst CW9800H1 and CW9800H2. NBAR2 provides the network administrator with an important tool to identify, control, and monitor end-user application usage while helping ensure a quality user experience and securing the network from malicious attacks. It uses FNF to report application performance and activities within the network to any supported NetFlow collector, such as Cisco Prime®, Cisco Secure Network Analytics, or any compliant third-party tool.

Quality of service

- **Superior Quality of Service (QoS):** QoS technologies are tools and techniques for managing network resources and are considered the key enabling technologies for the transparent convergence of voice, video, and data networks. QoS on the Cisco Catalyst CW9800H1 and CW9800H2 consists of classification of traffic based on packet data as well as application recognition and traffic control actions such as dropping, marking and policing. A modular QoS command-line framework provides consistent platform-independent and flexible configuration behavior. The CW9800H1 and CW9800H2 also supports policies at two levels of target: BSSID as well as client. Policy assignment can be granular down to the client level.

Smart operation

- **WebUI:** WebUI is an embedded GUI-based device-management tool that provides the ability to provision the device, simplifying device deployment and manageability and enhancing the user experience. WebUI comes with the default image. There is no need to enable anything or install any license on the device. You can use WebUI to build a day-0 and day-1 configuration and from then on monitor and troubleshoot the device without having to know how to use the CLI.

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Specifications

Table 7. Specifications

Item	Specification	
Wireless	IEEE 802.11a, 802.11b, 802.11g, 802.11d, WMM/802.11e, 802.11h, 802.11n, 802.11k, 802.11r, 802.11u, 802.11w, 802.11ac Wave1 and Wave2, 802.11ax, 802.11be	
Wired, switching, and routing	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, 1000BASE-T, 1000BASE-SX, 1000-BASE-LH, IEEE 802.1Q VLAN tagging, IEEE 802.1AX Link Aggregation	
Data standards	• RFC 768 User Datagram Protocol (UDP) • RFC 791 IP • RFC 2460 IPv6 • RFC 792 Internet Control Message Protocol (ICMP) • RFC 793 TCP • RFC 826 Address Resolution Protocol (ARP) • RFC 1122 Requirements for Internet Hosts • RFC 1519 Classless Interdomain Routing (CIDR) • RFC 1542 Bootstrap Protocol (BOOTP) • RFC 2131 Dynamic Host Configuration Protocol (DHCP) • RFC 5415 Control and Provisioning of Wireless Access Points (CAPWAP) Protocol • RFC 5416 CAPWAP Binding for 802.11	
Security standards	• IEEE 802.11i (WPA2, RSN) • Wi-Fi Protected Access 3 (WPA3) • RFC 1321 MD5 Message-Digest Algorithm • RFC 1851 Encapsulating Security Payload (ESP) Triple DES (3DES) Transform • RFC 2104 HMAC: Keyed-Hashing for Message Authentication • RFC 2246 TLS Protocol Version 1.0 • RFC 2401 Security Architecture for the Internet Protocol • RFC 2403 HMAC-MD5-96 within ESP and AH • RFC 2404 HMAC-SHA-1-96 within ESP and AH • RFC 2405 ESP DES-CBC Cipher Algorithm with Explicit IV • RFC 2407 Interpretation for Internet Security Association Key Management Protocol (ISAKMP) • RFC 2408 ISAKMP • RFC 2409 Internet Key Exchange (IKE) • RFC 2451 ESP CBC-Mode Cipher Algorithms • RFC 3280 Internet X.509 Public Key Infrastructure (PKI) Certificate and Certificate Revocation List (CRL) Profile • RFC 4347 Datagram Transport Layer Security (DTLS) • RFC 5246 TLS Protocol Version 1.2	

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Item	Specification	
	• RFC 8446 TLS Protocol Version 1.3	
Encryption standards	• Advanced Encryption Standard (AES): Cipher Block Chaining (CBC), Counter with CBC-MAC (CCM), Counter with CBC Message Authentication Code Protocol (CCMP) • Data Encryption Standard (DES): DES-CBC, 3DES • Secure Sockets Layer (SSL) and Transport Layer Security (TLS): RC4 128-bit and RSA 1024-and 2048-bit • DTLS: AES-CBC • IPsec: DES-CBC, 3DES, AES-CBC	
Authentication, authorization, and accounting (AAA)	• IEEE 802.1X • RFC 2548 Microsoft Vendor-Specific RADIUS Attributes • RFC 2716 Point-to-Point Protocol (PPP) Extensible Authentication Protocol (EAP)-TLS • RFC 2865 RADIUS Authentication • RFC 2866 RADIUS Accounting • RFC 2867 RADIUS Tunnel Accounting • RFC 2869 RADIUS Extensions • RFC 3576 Dynamic Authorization Extensions to RADIUS • RFC 5176 Dynamic Authorization Extensions to RADIUS • RFC 3579 RADIUS Support for EAP • RFC 3580 IEEE 802.1X RADIUS Guidelines • RFC 3748 Extensible Authentication Protocol (EAP) • Web-based authentication • TACACS support for management users	
Management standards	• Simple Network Management Protocol (SNMP) v1, v2c, v3 • RFC 854 Telnet • RFC 1155 Management Information for TCP/IP-based Internets • RFC 1156 MIB • RFC 1157 SNMP • RFC 1213 SNMP MIB II • RFC 1350 Trivial File Transfer Protocol (TFTP) • RFC 1643 Ethernet MIB • RFC 2030 Simple Network Time Protocol (SNTP) • RFC 2616 HTTP • RFC 2665 Ethernet-Like Interface Types MIB • RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions • RFC 2819 Remote Monitoring (RMON) MIB • RFC 2863 Interfaces Group MIB • RFC 3164 Syslog	

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Item	Specification	
	• RFC 3414 User-Based Security Model (USM) for SNMPv3 • RFC 3418 MIB for SNMP • RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs • RFC 4741 Base NETCONF protocol • RFC 4742 NETCONF over SSH • RFC 6241 NETCONF • RFC 6242 NETCONF over SSH • RFC 5277 NETCONF event notifications • RFC 5717 Partial Lock Remote Procedure Call • RFC 6243 With-Defaults capability for NETCONF • RFC 6020 YANG • Cisco private MIBs	
Management interfaces	• Web-based: HTTP/HTTPS • Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port • SNMP • NETCONF	
Hard disk drives (HDD)	• SATA solid-state drive (SSD) • 240 GB of memory	
Environmental conditions supported	Operating temperature: • Normal: 0° to 40° C (32° to 104° F) • Short term:0° to 50° C (32° to 122° F) Nonoperating temperature: • -40° to 65° C (-104° to 149° F) Operating humidity: • Normal: 10% to 90% noncondensing • Short term: 5% to 90% noncondensing Nonoperating temperature humidity: • 5% to 93% at 82° F (28° C) Operating altitude: • Appliance operating: 0 to 3000 m (0 to 10,000 ft) • Appliance nonoperating: 0 to 12,192 m (0 to 40,000 ft) Electrical input: • AC input frequency range: 47 to 63 Hz • AC input range: 90 to 264 VAC with AC PEM • DC input range:-40 to-72 VDC with DC PEM • Maximum power with modules: 500W Heat dissipation: 1706 BTU/hr	

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Item	Specification	
	Sound power level measure: • Sound power level is 73 (dBA) under normal operating conditions	
Regulatory compliance	Safety: • UL/CSA 60950-1 • IEC/EN 60950-1 • AS/NZS 60950.1 • CAN/CSA-C22.2 No. 60950-1 EMC – Emissions: • FCC 47CFR15 • AS/NZS CISPR 22 • CISPR 22 • EN55022/EN55032 (EMI-1) • ICES-003 • VCCI • KN 32 (EMI-2) • CNS-13438 EMC – Emissions: • EN61000-3-2 Power Line Harmonics (EMI-3) • EN61000-3-3 Voltage Changes, Fluctuations, and Flicker (EMI-3) EMC – Immunity: • IEC/EN61000-4-2 Electrostatic Discharge Immunity • IEC/EN61000-4-3 Radiated Immunity • IEC/EN61000-4-4 EFT-B Immunity (AC Power Leads) • IEC/EN61000-4-4 EFT-B Immunity (DC Power Leads) • IEC/EN61000-4-4 EFT-B Immunity (Signal Leads) • IEC/EN61000-4-5 Surge AC Port • IEC/EN61000-4-5 Surge DC Port • IEC/EN61000-4-5 Surge Signal Port • IEC/EN61000-4-6 Immunity to Conducted Disturbances • IEC/EN61000-4-8 Power Frequency Magnetic Field Immunity • IEC/EN61000-4-11 Voltage Dips, Short Interruptions, and Voltage Variations • K35 (EMI-2) EMC (ETSI/EN) • EN 300 386 Telecommunications Network Equipment (EMC) (EMC-3) • EN55022 Information Technology Equipment (Emissions) • EN55024/CISPR 24 Information Technology Equipment (Immunity) • EN50082-1/EN61000-6-1 Generic Immunity Standard (EMC-4)	Class A

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Software requirements

The Cisco Catalyst CW9800H1 and CW9800H2 runs on Cisco IOS XE Software Release 17.14.1 or later.

Licensing

No licenses are required to boot up a CW9800 wireless controller. However, to connect any access points to the controller, either a Cisco DNA software subscription or Cisco Networking subscription is required. To be entitled to connect to a CW9800 controller, each access point requires a subscription license. For more details on Cisco Networking Subscription for Wi-Fi 7 access points, read the datasheet: https://www.cisco.com/c/en/us/products/collateral/networking/software/networking-subscription-ds.html

For the full feature list of Cisco DNA Software for previous-gen access points, please see the feature matrix: https://www.cisco.com/c/m/en_us/products/software/dna-subscription-wireless/en-sw-sub-matrix-wireless.html?oid=porew018984

Ordering information

Table 8. Ordering information

Type	Product ID	Description
Wireless controller	CW9800H1 CW9800H2	Cisco Catalyst CW9800H1 Wireless Controller Cisco Catalyst CW9800H2 Wireless Controller
Accessories, spares	PWR-CH1-750ACR	Cisco Catalyst Wireless Controller 750W AC Power Supply
	PWR-CH1-950WDCR	Cisco Catalyst Wireless Controller 950W DC Power Supply
	PWR-CH1-750WACR	Cisco CW9800 750W AC power supply
	PWR-CH1-950WDCR	Cisco CW9800 950W DC power supply
	PWR-750WACR-RED	Cisco CW9800 750W AC Redundant power supply

Warranty

Find warranty information on Cisco.com at the Product Warranties page.

Cisco 1-year limited hardware warranty terms

The following are terms applicable to your hardware warranty. Your embedded software is subject to the Cisco EULA and/or any SEULA or specific software warranty terms for additional software products loaded on the device.

Duration of hardware warranty: One (1) year.

Replacement, repair, or refund procedure for hardware: Cisco or its service center will use commercially reasonable efforts to ship a replacement part within ten (10) working days after receipt of the Return Materials Authorization (RMA) request. Actual delivery times may vary depending on customer location.

Cisco reserves the right to refund the purchase price as its exclusive warranty remedy.

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Cisco environmental sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of Cisco's Corporate Social Responsibility (CSR) Report. Reference links to information about key environmental sustainability topics (mentioned in the "Environmental Sustainability" section of the CSR Report) are provided in the following table:

Table 9. Links to sustainability information

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance
Sustainability inquiries	Contact: csr_inquiries@cisco.com

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

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Document history

New or revised topic	Described in	Date
Revised supported Wi-Fi standards	Features; specifications	January 13 2026

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