

Overview

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Summary of Cisco Catalyst CW9800M Wireless Controller Cisco Catalyst CW9800M Wireless Controller

Table 1: Cisco Catalyst CW9800M Wireless Controller Features

Feature	Description
Chassis Height	One rack-unit (1RU)
Processor	Intel Ice Lake D, 12-cores, 2 GHz
Memory Options	• Control Plane Memory—64 GB DDR4 • Bootflash storage—32 GB • Hard disk - 480 GB
Throughput	50 Gbps
TCAM	80 Mb
Number of APs supported	3000
Number of clients supported	32000
Ethernet Port Adapter (EPA)	2 built-in EPA
Redundancy Ports	One RJ-45 GE or one 1/10 GE SFP port
Console Port	One RJ-45 or one micro-USB console port
Service Ports	2 service ports (one RJ-45 and one SFP interface)

Feature	Description
Data Ports	2x25 GE and 4x1/10 GE ports
USB	Two USB 3.0 ports
Operating Temperature	41° to 104° F (5° to 40° C)
Short-term Operating Temperature	41° to 122° F (5° to 50° C)
Nominal Operative Humidity	5 to 85% non-condensing
Short-term Operative Humidity	5 to 90% non-condensing
Storage Temperature	–4° to 158° F (–20° to +70° C)
Operational Altitude	0 to 10,000 feet (0 to 3000 meters)
Field-replaceable units (FRU).	See Chapter 2: **Supported Hardware Components** for information on supported FRUs.

Front View

The following figure shows the front view of the Cisco Catalyst CW9800M Wireless Controller

Figure 1: Cisco Catalyst CW9800M Wireless Controller Front View

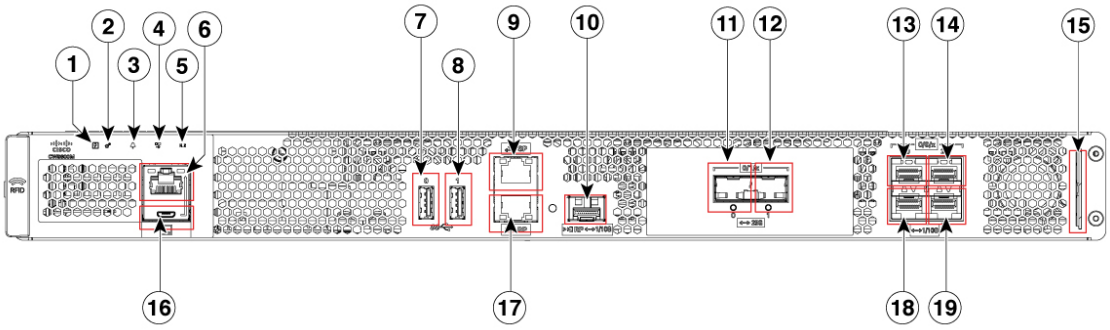


Table 2: Cisco Catalyst CW9800M Wireless Controller Front View

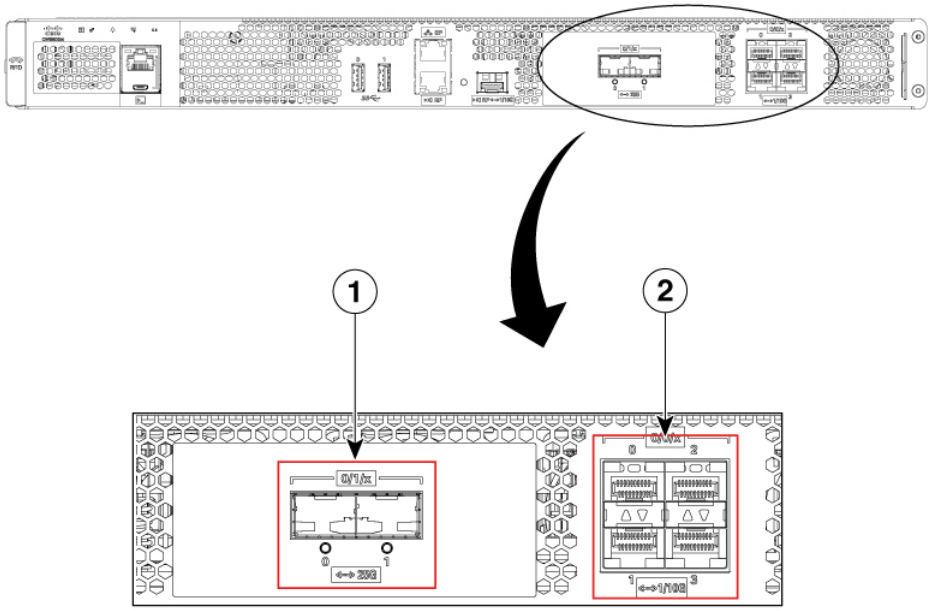
1	PWR—Power LED
2	SYS—System LED
3	ALM—Alarm LED
4	HA—High-Availability LED
5	M.2 SSD
6	RJ-45 compatible console port
7	USB Port 0

8	USB Port 1
9	SP— RJ-45 1 GE management port
10	RP— 1/10-GE SFP port
11	TwentyFiveGigE0/1/0—25-GE SFP+ Port 0
12	TwentyFiveGigE0/1/1—25-GE SFP+ Port 1
13	Te0/0/0—1-GE SFP/ 10-GE SFP+ Port 0
14	Te0/0/2—1-GE SFP/ 10-GE SFP+ Port 2
15	Carrier Label Tray
16	CON— Micro USB console port
17	RP— RJ-45 1 GE redundancy port
18	Te0/0/1—1-GE SFP/ 10-GE SFP+ Port 1
19	Te0/0/3—1-GE SFP/ 10-GE SFP+ Port 3

Note For the Cisco Catalyst CW9800M Wireless Controller, the power supply is located in the rear side of the chassis. See the **Rear View** section.

Built-In SFP and SFP+ Ports

Figure 2: Cisco Catalyst CW9800M Wireless Controller Port Numbering



1	Bay 1—2 X 25-GE SFP ports. The supported ports are: • TwentyFiveGigE0/1/0—25-GE SFP+ Port 0 • TwentyFiveGigE0/1/1—25-GE SFP+ Port 1	2	Bay 0—4 X 1-GE/10-GE SFP ports. The supported ports are: • Te0/0/0—1-GE SFP/ 10-GE SFP+ Port 0 • Te0/0/1—1-GE SFP/ 10-GE SFP+ Port 1 • Te0/0/2—1-GE SFP/ 10-GE SFP+ Port 2 • Te0/0/3—1-GE SFP/ 10-GE SFP+ Port 3

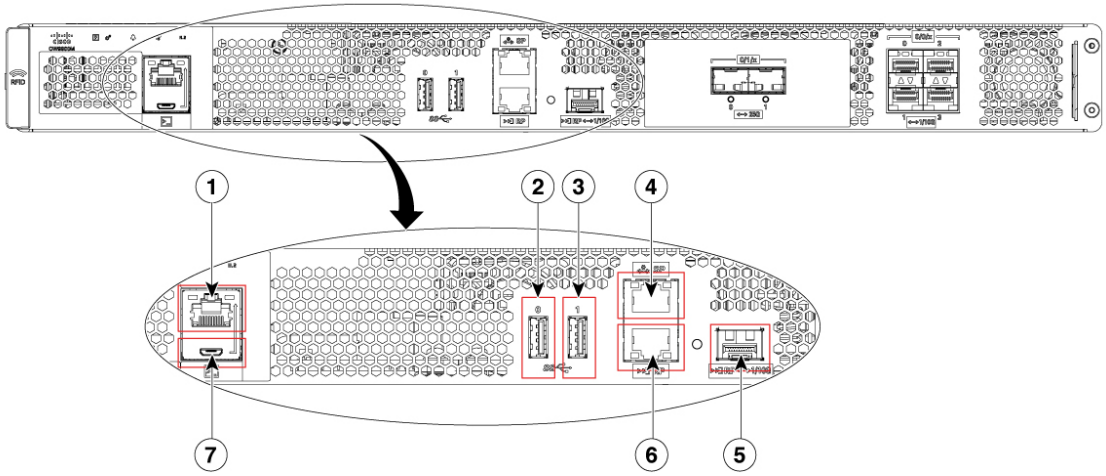
The port LEDs behave as follows:

- Off—Indicates the port is not enabled by software.
- Amber—Indicates the port is enabled by software but there is a problem with the link.
- Green—Indicates the port is enabled by software and there is valid link.

Management and Storage Connections

The following figure shows the management and storage connections for the Cisco Catalyst CW9800M Wireless Controller:

Figure 3: Management and Storage Connections for the Cisco Catalyst CW9800M Wireless Controller

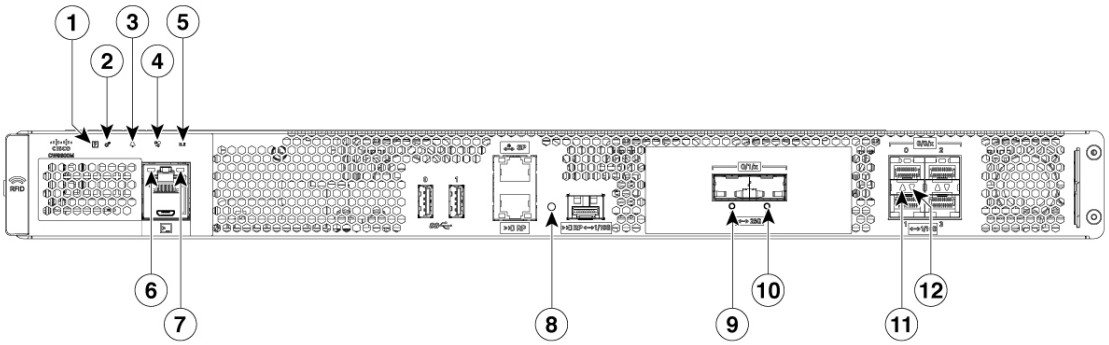


1	RJ-45 compatible console port	5	RP—1-GE/10-GE SFP port
2	USB port 0	6	RP—RJ-45 1 GE redundancy port
3	USB port 1	7	CON-Micro USB console port
4	SP—RJ-45 1GE managementport		

LEDs

The following figure shows the LEDs on the front panel of the Cisco Catalyst CW9800M Wireless Controller:

Figure 4: Cisco Catalyst CW9800M Wireless Controller LEDs



No.	LED Label	Description	LED Color	Behavior
1	PWR	Power	Green	If all the power rails are based on the specification.

No.	LED Label	Description	LED Color	Behavior
2	SYS	System	On 	Remains ON during IOS boot complete.
			Blinking Green 	Remains blinking when IOS booting is in progress.
			Amber 	Remains ON during system crash.
			Blinking Amber 	Remains blinking during secure boot failure.
			Off	Remains OFF during ROMMON boot.
3	ALM	Alarm	Green 	Remains ON during ROMMON boot complete.
			Blinking Green 	Remains blinking when system upgrade is in progress.
			Amber 	Remains ON during ROMMON and SYSTEM bootups.
			Blinking Amber 	Remains blinking during temperature error and secure boot failure.
			Red	Indicates that the system detects critical warnings.
			Off	Remains OFF during IOS boot. Normal Operation

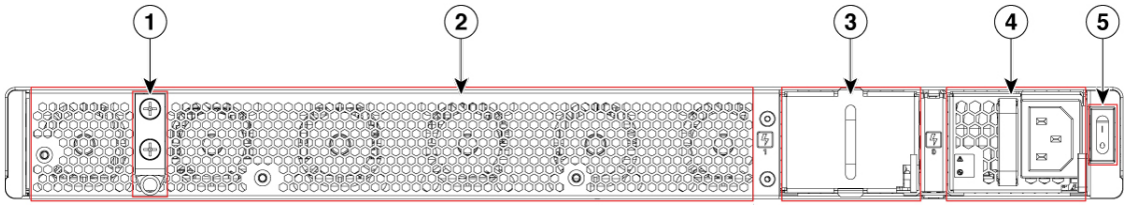
No.	LED Label	Description	LED Color	Behavior
4	HA	High Availability	Green 	Remains ON when HA is active.
			Blinking Green 	Remains blinking when HA Standby Hot.
			Amber 	Blinks slowly when booted or HA Standby Cold.
			Blinks Fast	Blinks fast during HA maintenance.
5	M.2 SSD	SSD Activity	Green 	Indicates active usage of the hard disk SSD memory devices in the unit.
6		RJ-45 Console Port Status LED	Green 	Indicates that the RJ-45 console port is active.
7		USB console Port LED	Green 	Indicates that the micro USB connector is used as the console.
8		RP RJ-45 or SFP Port	Green 	Indicates that the port is enabled and there is a valid Ethernet Link
			Amber 	Indicates that the port is enabled, but there is a problem with the Ethernet Link.
			OFF	Indicates that the port is not enabled.
9 and 10		Built-in EPA 1 (1 SFP + Port Status of 1 LED with 1 per SFP)	OFF	Indicates that the port is not enabled.
			Amber	Indicates that the port is enabled, but there is a problem with the Ethernet Link.
			Green 	Indicates that the port is enabled and there is a valid Ethernet Link

No.	LED Label	Description	LED Color	Behavior
11		1/10 GE SFP Port Status LED (1 per port for ports 0 and 2)	OFF	Indicates that the port is not enabled.
			Amber	Indicates that the port is enabled, but there is a problem with the Ethernet Link.
			Green	Indicates that the port is enabled and there is a valid Ethernet Link
12		1/10 GE SFP Port Status LED (1 per port for ports 1 and 3)	OFF	Indicates that the port is not enabled.
			Amber	Indicates that the port is enabled, but there is a problem with the Ethernet Link.
			Green	Indicates that the port is enabled and there is a valid Ethernet Link

Rear View

The following figure shows the rear view of the Cisco Catalyst CW9800M Wireless Controller:

Figure 5: Cisco Catalyst CW9800M Wireless Controller Rear View



1	Grounding lug	2	Fans
3	Power supply blank	4	AC power supply (PEM 0)
5	Power/standby switch		

The chassis has a front-to-rear airflow. Six internal fans draw cooling air into the chassis and across internal components to maintain an acceptable operating temperature. The fans are located at the rear of the chassis. The fans are numbered from 0 to 5, right to left.

The power supply (AC) is accessed from the rear of the controller and is hot-swappable.

Cisco Product Identification Standard

This section describes the Cisco products and services product identification standard. This feature provides you with the ability to effectively integrate and manage Cisco products in your network and business operations.

Unique Device Identifier

The Unique Device Identifier (UDI) is the Cisco product identification standard for hardware products. A product identification standard removes barriers to enterprise automation and can help you reduce operating expenses.

The UDI provides a consistent electronic, physical, and associated business-to-business information product identification standard.

The UDI is a combination of five data elements. The following table lists the UDI elements:

Table 3: UDI Elements

UDI Data Element	Electronic Visibility	Physical Visibility	Description
PID	Yes	Yes	Product ID, also known as product name, model name, product number
VID	Yes	Yes	Version ID
SN	Yes	Yes	Serial number, the unique instance of the PID
Entity Name	Yes	—	Type, such as chassis, slot, or power supply
Product Description	Yes	—	Additional product information

The combination of serial number and product ID (PID) is unique and consistent across all Cisco products. The PID that is coded on hardware is called a base product identifier.

Additional orderable PIDs can be associated to a base PID. For instance, an orderable PID may describe a packaging configuration for a product or a bundled group of products sold, tested, and shipped together. Specific unique device identifier (UDI) benefits include the following:

- Identifies:
  - Individual Cisco products in your networks
  - PIDs and serial numbers for service and replaceable products
  - Version IDs (VIDs) for product version visibility
- Facilitates discovery of products subject to recall or upgrade
- Enhances inventory automation of Cisco products

The Cisco product identification standard provides the following features:

show diag chassis eeprom Command

The **show diag chassis eeprom** command displays the PID, VID, PCB serial number, hardware revision, and other such information.

The following is sample output from the show diag chassis eeprom command:

```
Device# show diag chassis eeprom

MIDPLANE EEPROM data:

Product Identifier (PID) : CW9800M
Version Identifier (VID) : V00
PCB Serial Number        : JAE27210CBV
Top Assy. Part Number    : 68-7623-03
Hardware Revision        : 0.4
Asset ID                 :
CLEI Code                : CMM0000000

Power/Fan Module P0 EEPROM data:

Product Identifier (PID) : PWR-CH1-750WACR
Version Identifier (VID) : V01
PCB Serial Number        : ART2720FCKC
Hardware Revision        : 1.0
Asset ID                 :
CLEI Code                : CMUPAG1CAA

Power/Fan Module P1 EEPROM data is not initialized
```

Note Common Language Equipment Identification (CLEI) code is a ten-digit character code that identifies a specific product. A CLEI code is applied to each part within a Cisco Catalyst CW9800M Wireless Controller as they are programmed in manufacturing for shipment to customers.

show license udi Command

The **show license udi** command displays UDI information.

The following is sample output from the **show license udi** command:

```
Device# show license udi

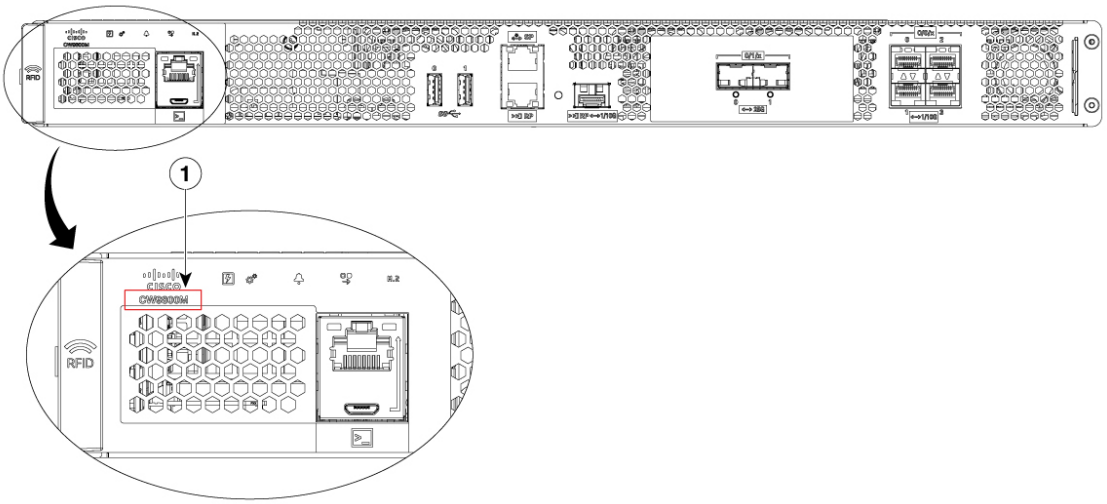
UDI: PID:CW9800M,SN:FLX271000RP
```

Note For complete information on the product identification standard, see https://www.cisco.com/c/en/us/products/unique-device-identifier-udi.html.

PID Label Location

The following figures show the location of the serial number and the PID/VID label on the Cisco Catalyst CW9800M Wireless Controller:

Figure 6: Cisco Catalyst CW9800M Wireless Controller Serial Number and PID/VID Label Location



1	PID Label