

Overview of Cisco Catalyst 9800-L Wireless Controller

Cisco Catalyst 9800-L Wireless Controller is the first low-end controller that provides a significant boost in performance and features from Cisco 3504 Wireless Controller.

The following are the two variations of the controller:

- Cisco Catalyst 9800-L Copper Series Wireless Controller (9800-L-C RJ45).
- Cisco Catalyst 9800-L Fiber Series Wireless Controller (9800-L-F SFP).

For more information about features and benefits, see the *Cisco Catalyst 9800-L Wireless Controller datasheet*.

Figure 1: Cisco Catalyst 9800-L Copper Series Wireless Controller (9800-L-C RJ45)

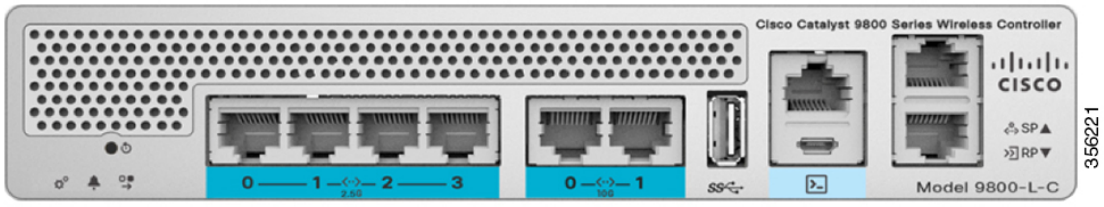
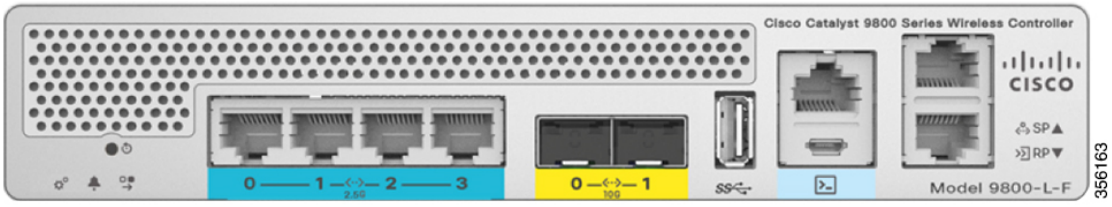


Figure 2: Cisco Catalyst 9800-L Fiber Series Wireless Controller (9800-L-F SFP)



- Summary of Cisco Catalyst 9800-L Wireless Controller Features, on page 2
- Platform Components, on page 3

Summary of Cisco Catalyst 9800-L Wireless Controller Features

Table 1: Cisco Catalyst 9800-L Wireless Controller Features

Feature	Description
Chassis Height	One rack-unit (1RU)
Throughput	5 Gbps
Number of APs supported	250
Number of clients supported	5000
Processor	Intel Broadwell-NE DE—8-core, 2 GHz
Memory Options	• Control/Data Plane Memory—16GB DDR4 • Boot Flash—8MB • Bulk Flash—32GB eMMC
Redundancy, Service Ports	2x 1GE Cu
Data Ports	2x 1G/2.5G/5G/10G Cu (or) 2x 1G/10G Fiber, 4x 1G/2.5G Cu
Storage Temperature	–13° F to 158° F (–25° C to 70° C)
Operating Temperature	32° F to 104° F (0° C to 40° C) **Note** The maximum temperature is derated by 1.0° C for every 1000 ft (305 m) of altitude above sea level.
Storage Humidity	0% to 95% RH non-condensing
Operating Humidity	10% to 95% RH non-condensing
Operational Altitude	0 to 10,000 ft (3048m)
Power Adapter	110W single 12V output adapter (C9800-AC-110W)

Platform Components

Cisco Catalyst 9800-L Wireless Controller Front Panel

Figure 3: Cisco Catalyst 9800-L Wireless Controller Front Panel View

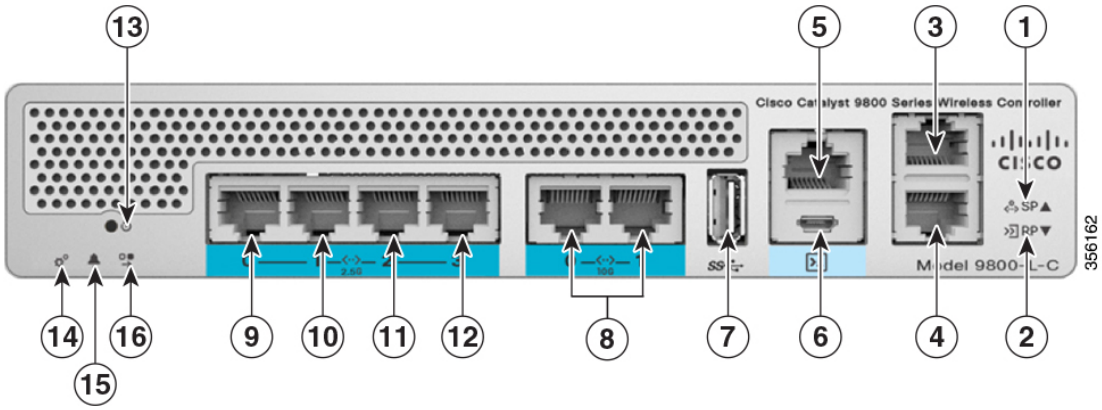


Table 2: Cisco Catalyst 9800-L Wireless Controller Front Panel Components

1	Service Port LED
2	Redundancy Port LED
3	Service Port (SP) (RJ-45) for out-of-band management
4	Redundancy Port (RP) (RJ-45). **Note** The redundancy ports can be connected back to back or via an L2 switch.
5	CPU console port, which is an RJ-45 RS-232 and micro-B USB serial console port. The default RJ-45 se 9600, N, 8, 1. The boot-loader supports baud rates of 1200, 2400, 4800, 9600, 19200, 38400, 57600, and baud-rate recovery mechanism is not available; however, the bootloader ensures that the stored baud rate the allowed values before setting the baud rate. If a nonstandard value is detected, the baud rate will defa Micro-B USB serial connection takes precedence over RJ-45 when both connections are made. **Note** If the Micro-B USB console port is used, the CPU console port that supports RJ-45 connector is ignored. the two ports are ever active.
6	Micro USB Type-B console port that can be used to perform software updates in addition to the already av namely HTTP, TFTP, FTP, and SFTP. **Note** If you connect both the Micro USB Type-B console port and the CPU console port, then USB port takes CPU console port is ignored as only one of the two ports are ever active.

7	Type A 3.0 USB port used to perform software updates in addition to already available transfer mode, namel FTP, and SFTP.
8	2x 10 G/mGig ports. This mGig port supports speeds of 10G, 5G, 2.5G, and 1G. **Note** In a High Availability environment, it is not possible to change the configured port speed.
9, 10, 11, and 12	mGig ports. These mGig ports support only 2.5G and 1G speeds. Gigabit Ethernet ports 1,2, 3, and 4 are RJ-45 connector form-factors. These ports are designed so that 1500 (per the 802.3 specification) is met between chassis ground and any Ethernet signal. **Note** The ports can be used for infra-switch connection using multiple an AP-Manager or data interface.
13	Reset button • Pushing the Reset button for less than 10 seconds will reload the controller. • Pushing the Reset button for more than 10 seconds will erase the startup configuration in NVRAM of th
14	System LED that determines if the system is powered up and booted.
15	Alarm LED that determines a status or error occurred. The status or error is posted on the console screen.
16	High Availability LED

Front Panel LEDs: Definitions of States

Table 3: System LED Indicators

Color	Description
Off	System not receiving power. System crash Firmware upgrade Temperature error
Blinking Green	System boot
Red	Controller error. For example, an internal voltage error exists.

Table 4: Alarm LED Indicators

Color	Description
Blinking Green	Controller image upgrade

Color	Description
Red	Controller error. For example, a temperature error exists. **Note** When only one TenGig port is connected, an alarm is triggered and the Alarm LED remains on and red. This does not occur when only one mGig port is connected.

Note The Cisco Catalyst 9800-L Wireless Controller has an external power adapter.

The Alarm Bell LED is illuminated **red**, if the **10-G** uplink ports are not connected to the switch. This does not mean a system or hardware failure. When the interfaces are disabled in the controller, the **red** light remains off even when the controller is not connected.

Table 5: High Availability LED Indicators

Color and State	Description
Green	On: HA active
Green	Slow blinking: HA standby hot
Amber	Slow blinking: HA standby cold
Amber	Fast linking: HA maintenance

Cisco Catalyst 9800-L Wireless Controller Rear Panel

Figure 4: Cisco Catalyst 9800-L Wireless Controller Rear Panel View

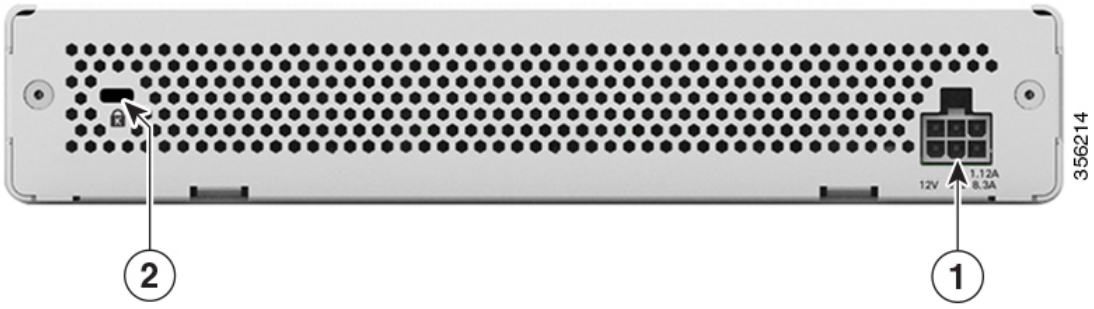


Table 6: Cisco Catalyst 9800-L Wireless Controller Rear Panel Components

1	External 110W, single output 12VDC power adapter (C9800-AC-110W).

2	Kensington security slot