

LEDs

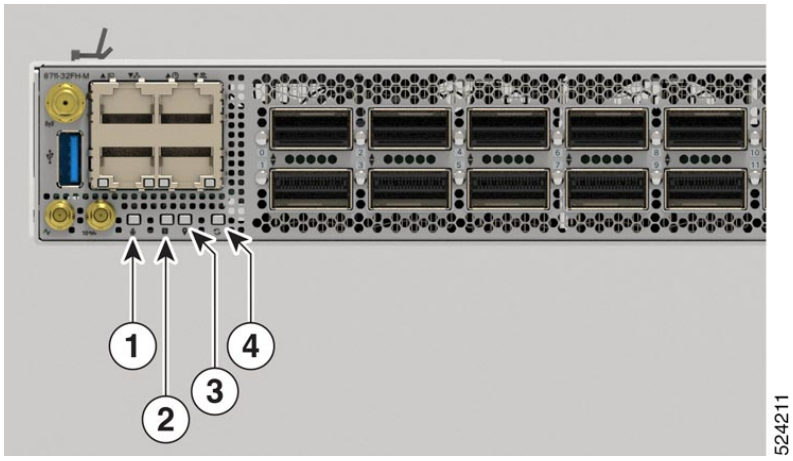
You can perform the following check on LEDs that assist you with the troubleshooting process:

- Chassis LEDs, on page 1
- Port Status LEDs, on page 3
- LEDs for Cisco 8712 Router, on page 4
- Fan LED, on page 8
- Power Supply LEDs, on page 10

Chassis LEDs

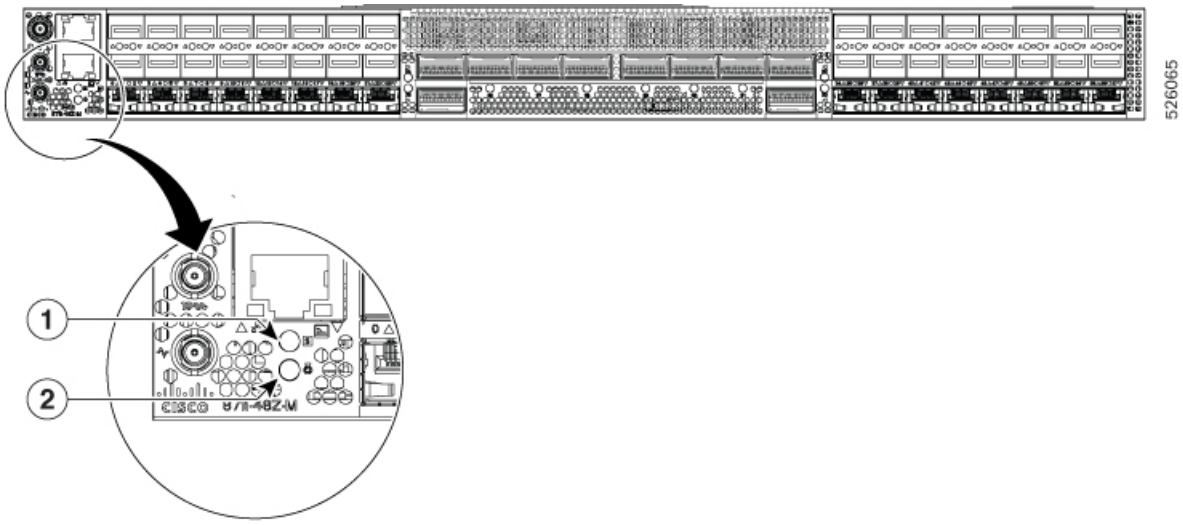
Attention, Status, Synchronization, and GPS LEDs are located both at the far left of the front of the chassis and also on the back of the chassis:

Figure 1: Chassis LEDs - Cisco 8711-32FH-M



1	Attention
2	Status
3	GPS
4	Synchronization

Figure 2: Chassis LEDs - Cisco 8711-48Z-M



1	Status
2	Attention

Table 1: Chassis LED Descriptions

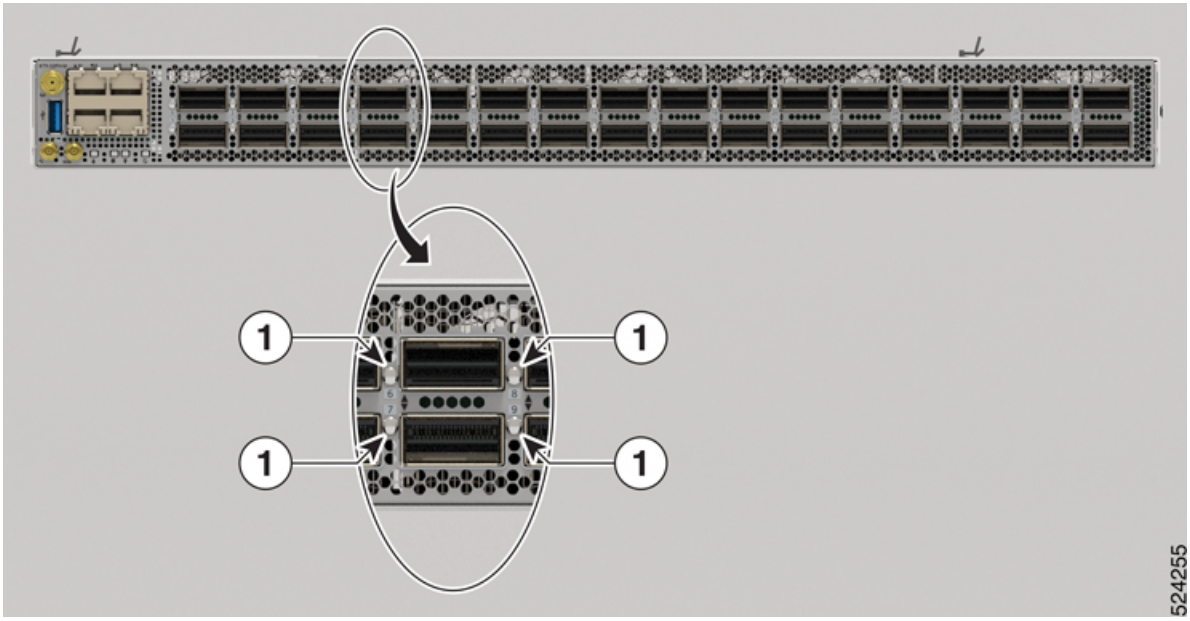
LED	Color	Status
Attention	Flashing blue	The operator has activated this LED to identify this chassis.
	Off	This chassis is not being identified.
Status	Green	The module is operational and has no active major or critical alarms.
	Flashing Green	The auto or manual FPD upgrade is in progress.
	Amber	The module is in one of the following states: • Power cycle • Reload or reimage • Shutdown
	Flashing Amber	The module has minor alarm.
	Red	Power-up failure which prevents the CPU from booting.
	Flashing Red	The module has active major or critical alarms.
	Off	The module is powered-off.

LED	Color	Status
GPS	Green	The GPS interface is provisioned and frequency, time of day and phase inputs are all operating correctly.
	Off	The GPS interface is not provisioned, or the GPS inputs are not working correctly.
Synchronization	Green	Time core is synchronized to an external source including IEEE1588.
	Amber	The system is running in holdover or free-run mode and it is not synchronized to an external interface.
	Off	The centralized frequency or time and phase distribution is not enabled.

Port Status LEDs

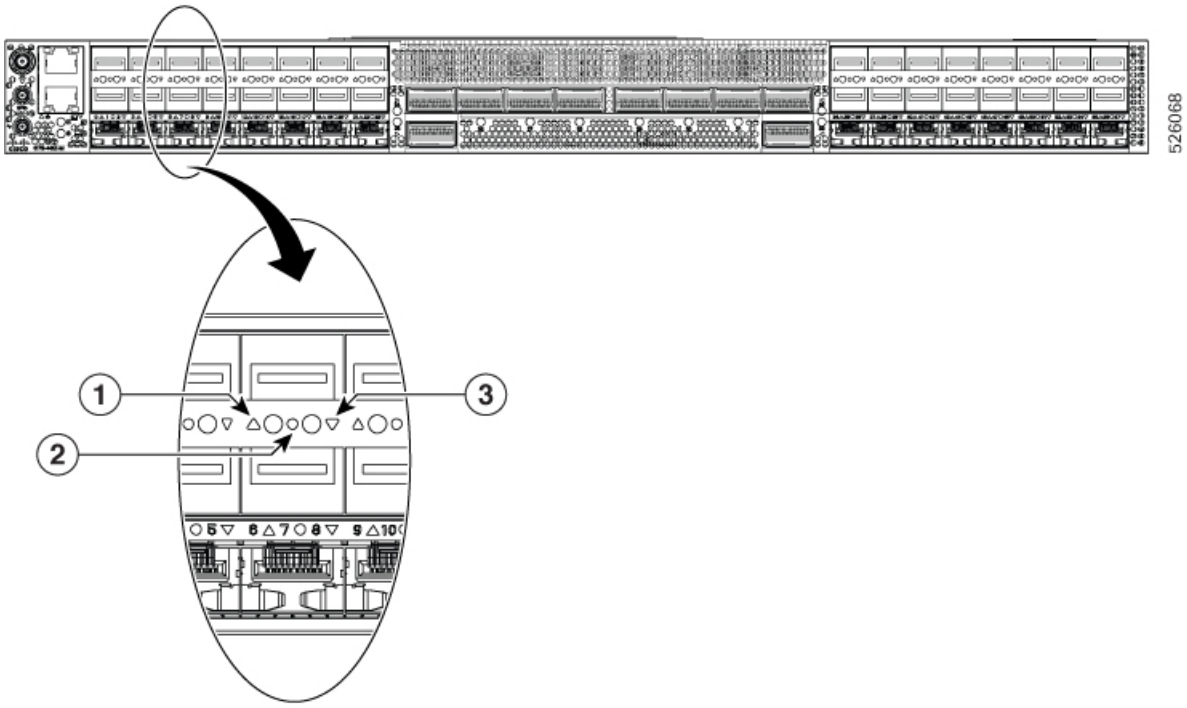
Each port has an LED. The following table describes port status LEDs.

Figure 3: Port Status LED - Cisco 8711-32FH-M Chassis



1	400G Port Status LED

Figure 4: Port Status LED - Cisco 8711-48Z-M Chassis



1	Top row status LED
2	Middle row status LED
3	Bottom row status LED

Table 2: Port Status LEDs (one per port)

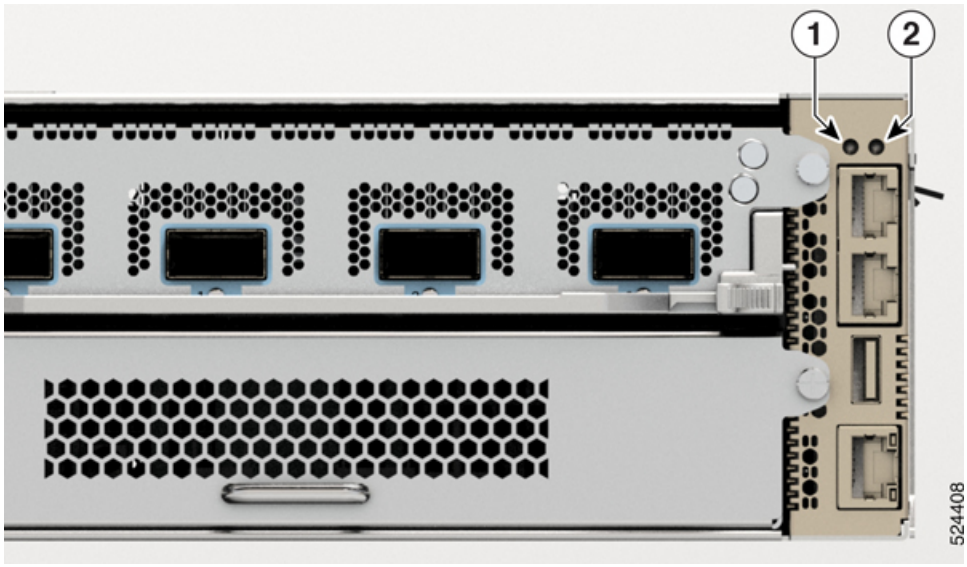
LED Color	Description
Off	Port is administratively shut down.
Amber	Port is administratively enabled and the link is down.
Green	Port is administratively enabled and the link is up.

LEDs for Cisco 8712 Router

Chassis LED

This section describes the chassis LED and its status.

Figure 5: Chassis LEDs - Front View of Cisco 8712-MOD-M



1	Attention
2	Status

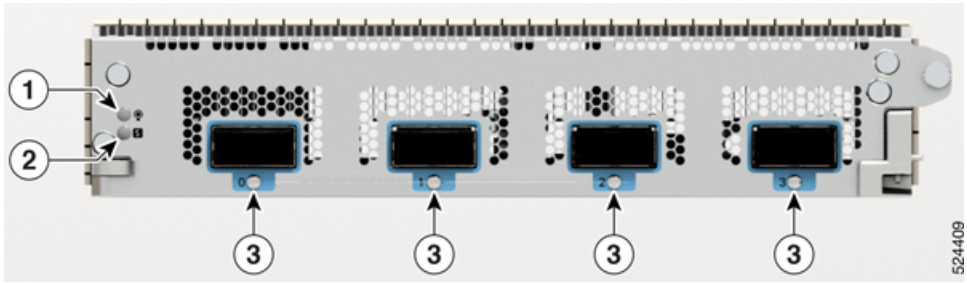
Table 3: Chassis LED Descriptions

LED	Color	Status
Attention 	Flashing Blue	The operator has activated this LED to identify this chassis.
	Off	The operator has not activated this LED.

MPA LEDs

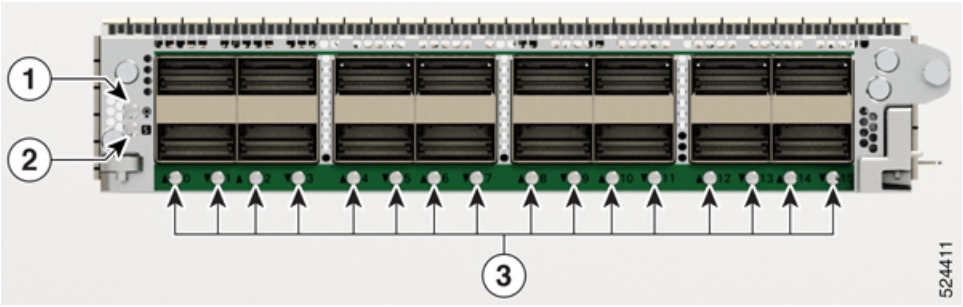
The Status LED and the Attention LED are located on the bottom of the MPA. The Link LEDs for each port are located on the right-side of the MPA, next to the ejector lever.

MPA LEDs - 8K-MPA-4D



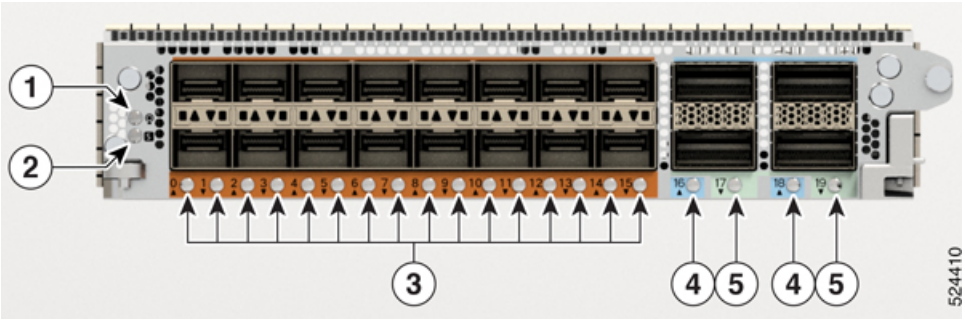
1	Attention
2	Status
3	Port Link

MPA LEDs - 8K-MPA-16H



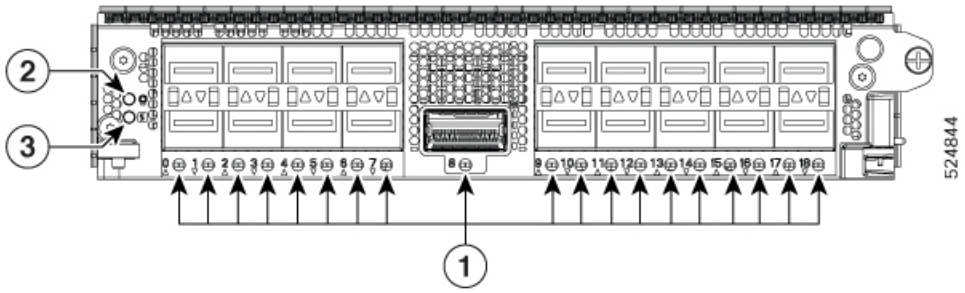
1	Attention
2	Status
3	Port Link

MPA LEDs - 8K-MPA-16Z2D



1	Attention
2	Status
3	Link (Port 0-15)
4	Link (Port 16 and 18)
5	Link (Port 17 and 19)

MPA LEDs - 8K-MPA-18Z1D



1	Port Link
2	Attention
3	Status

Table 4: MPA LED Descriptions

LED	Color	Status
Attention	Flashing Blue	The operator has activated this LED to identify this module in the chassis.
	Off	This module is not identified by the operator.

LED	Color	Status
Status	Solid Amber	The module is in one of the following states: • Booting up • Shutting down • Power cycling
	Solid Green	The module is operational with no issues.
	Solid Red	The module has failed to power-up
	Flashing Green	Auto or manual FPD upgrade is in-progress.
	Flashing Red	The module has an active major or critical alarm.
	Flashing Amber	The module has an active minor alarm.
	Off	The module is in one of the following states: • The module is in shutdown state by using either **shutdown location** *location* command in the EXEC mode or by using the **hw-module shutdown location** *location* command in the Config mode. • While the card is in running state, the ejector lever is opened that triggers the auto-shutdown operation for the module. • The module is placed in shutdown state by the software due to a hardware fault or a critical alarm condition. **Note** While in this state, the module can be safely removed from the router.
Port (for each port)	Green	The port is administratively enabled and the link is up.
	Amber	The port is administratively enabled and the link is down.
	Off	The port is administratively shut down.

Fan LED

Fan modules are located on the back of the chassis. Each fan module has a Status LED.

Figure 6: Fan LED - Cisco 8711-32FH-M Chassis

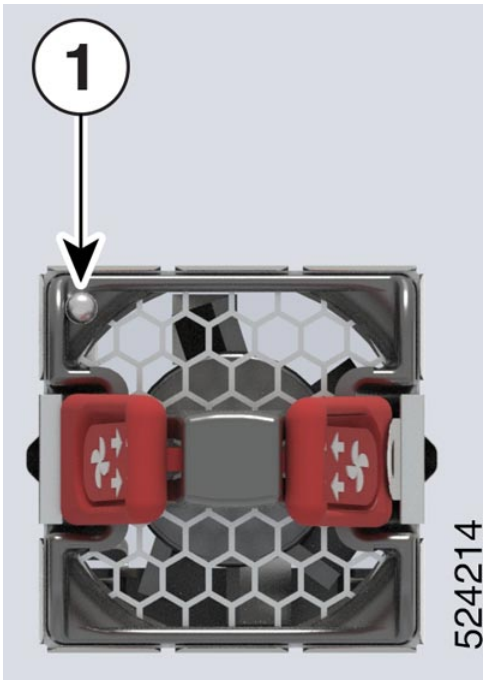


Figure 7: Fan LED - Cisco 8712-MOD-M Chassis

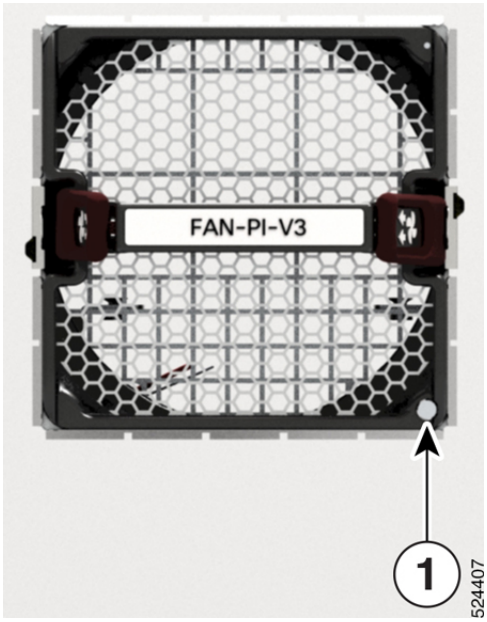
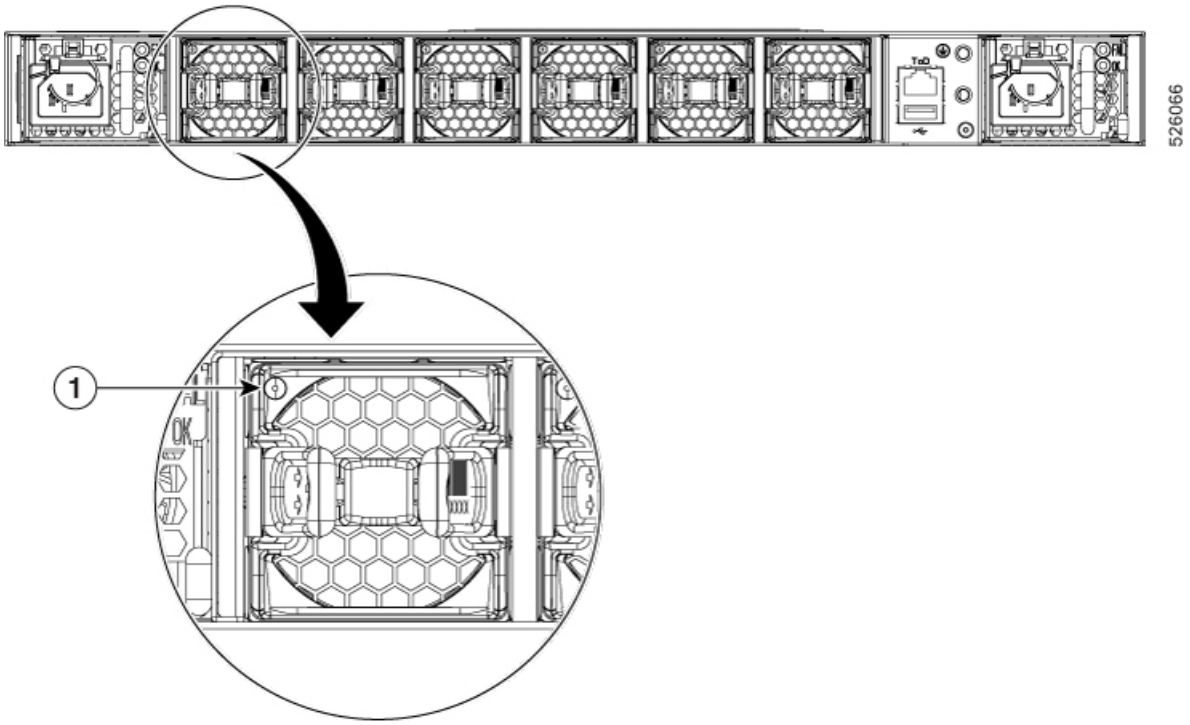


Figure 8: Fan LED - Cisco 8711-48Z-M Chassis



1	Fan Status LED

Table 5: Fan LED Descriptions

LED	Color	Status
Status	Green	Fan is operating normally.
	Amber	Fan is inserted and pending to come online.
	Flashing Amber	The module is in one of these states: • Fan speed (RPM) is outside normal range. • The module has a minor, major, or critical alarm.
	Flashing Blue	The module is identified or activated.
	Off	Fan is not receiving power.

Power Supply LEDs

Power modules are located on the back side of the chassis. Each power module has a Status LED.

Figure 9: Cisco 8711-32FH-M Power Supply LED

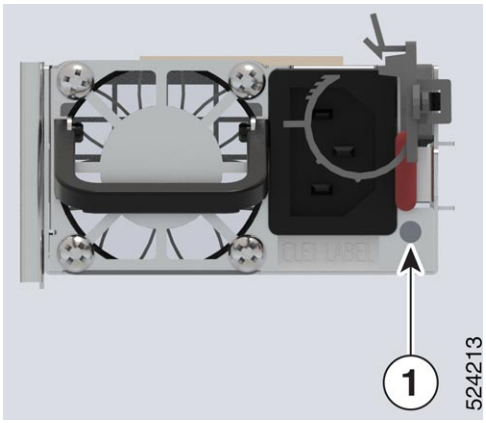


Figure 10: Cisco 8712-MOD-M DC Power Supply LED

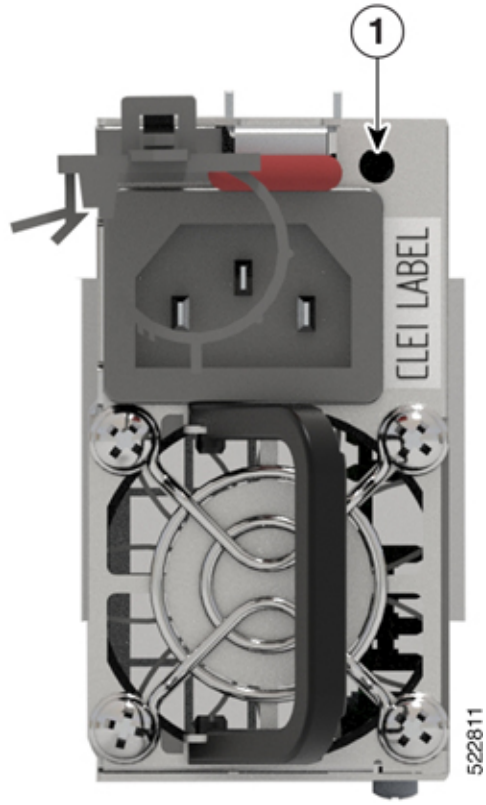
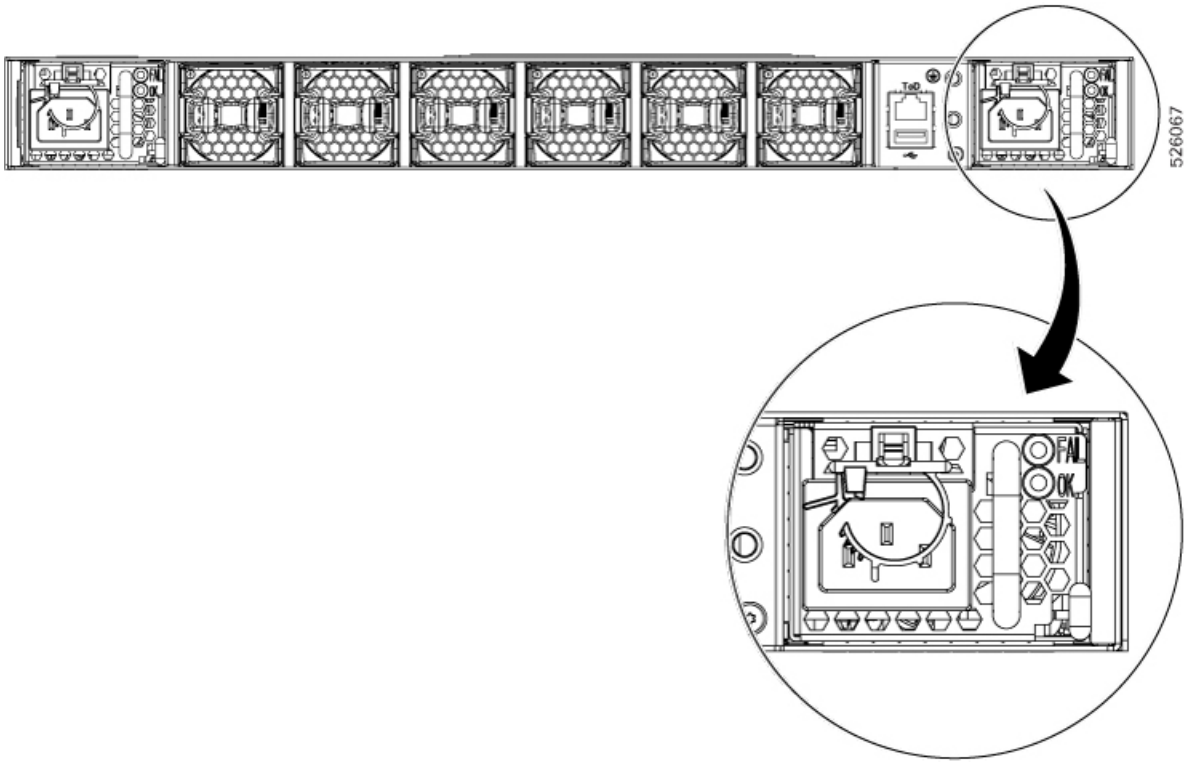


Figure 11: Cisco 8712-MOD-M AC Power Supply LED



Figure 12: Cisco 8711-48Z-M Power Supply LED



1	Status LED

Table 6: Power Supply LED Descriptions

LED	Color	Status
Status	Green	Power supply is on and transmitting power to the router.
	Flashing Green (2 Hz)	Power supply is connected to input power source but not transmitting power to the router.
	Flashing Green (4 Hz)	Power Supply Unit firmwire upgrade in-progress.
	Amber	Power supply failure, due to one of these conditions: • Over voltage • Over current • Over temperature • Fan failure
	Flashing Amber (1 Hz)	Power supply is operating but a warning condition has occurred, due to one of these conditions: • High temperature • High power • Slow fan
	Off	Power supply units are not receiving power.