Router LED Locations and States

View the Cisco 1120 Connected Grid Router LEDs to determine the overall state of the system and to verify the status of specific connections, ports, and system components.

In addition to viewing the LEDs on the router hardware, you can use the router command line interface as described in Related Commands, page 88 to check the system status LED state from remote locations.
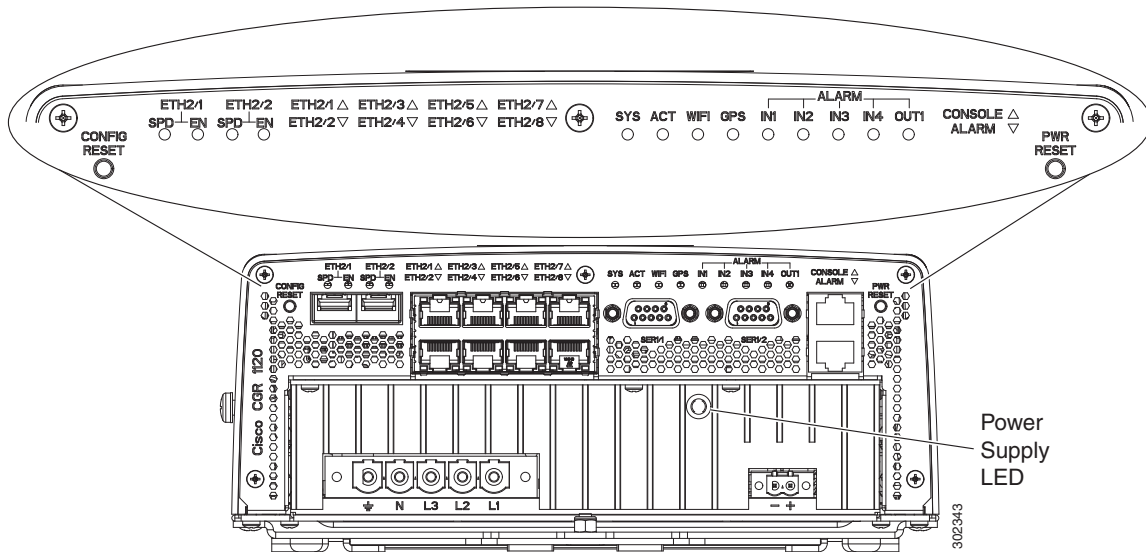
These topics are discussed:

Rear Panel LED Locations

Most of the router LEDs are located on the router cable panel (rear panel) as shown in Figure 1 on page 84.

The SD card status LED is located on the router module panel (front panel). For more information, see SD Card LED Location, page 87.

Figure 1   Cable Panel (Rear Panel) LEDs

Power
Supply
LED

Power Supply LED

The power status LED indicates the power status of the router.

Table 1   Power Supply LED

LED Label	Color	Description	Location	Drvr
AC/DC Power Supply	Green/Red	Off: PSU no present Green: DC output is OK Red: DC output failed, but AC/DC input is good	PSU and wiring side	HW

SYS LED—System Status

The system status (SYS) LED indicates the system or operating status of the router.

Table 2   SYS LED

LED Label	Color and State	Description
	Green	Normal system operating status
	Green blinking	The system is starting up or power cycling, and loading system software, including BIOS and operating system
	Amber	System receiving power but there is an error condition
	Off	System not receiving power

ACT LED—System Activity

The system activity (ACT) LED indicates the state of the router CPU.

Table 3   ACT LED

LED Label	Color and State	Description
ACT	Green blinking	The router CPU is operating normally.
	Green solid	The router CPU is not operating, or is not operating normally.
	Off	The router CPU is not operating.

WIFI LED—WiFi Link Status

The WiFi link status (WIFI) LED indicates the state of the router WiFi short-range access point link.

Table 4   WIFI LED

LED Label	Color and State	Description
WIFI	Green	WiFi link established
	Green blinking	WiFi link established and data transfer in progress
	Yellow	No WiFi link

GPS LED—GPS Link Status

The GPS link status (GPS) LED indicates the state of the link between the router and the GPS satellite.

Table 5   GPS LED

LED Label	Color and State	Description
GPS	Green	Locked but not receiving data
	Green blinking	Locked and receiving data
	Yellow blinking	Acquiring satellite
	Yellow solid	No GPS link

CONSOLE LED–Console Port Status

Table 6 CONSOLE LED

LED Label	Color and State	Description
CONSOLE	Green	Active console connection to the router
	Off	No console connection

ALM LEDS–Alarm Port Status

The router has five alarm port LEDs.

Table 7 ALM LEDs

LED Label	Color and State	Description
IN x (1 to 4)	Green/red	Alarm input status ■ Off: Alarm not configured ■ Green: No alarm ■ Red: Alarm is present
OUT 1	Green/red	Alarm output status ■ Off: Alarm not configured ■ Green: No alarm ■ Red: Alarm is present

Ethernet LEDs–Network Links Status

This section describes the router LEDs that indicate Ethernet network connection states and speeds, and includes these topics:

SFP LEDs–SFP Port States

The router has two SFP ports (labeled ETH 2/1 and ETH 2/2). Each SFP port has the following two LEDs:

■ **SPD**–Indicates SFP port link speed

■ **EN**–Indicates SFP port status

Table 8   SFP LEDs

LED Label	Color and State	Description
SPD	Green, 2 blinks/pause	100 MB/s link speed on the corresponding SFP port
	Green, 3 blink/pause	1000 MB/s link speed
	Off	No link established
EN	Green	SFP is installed in the port and the link is active
	Amber	SFP is installed but there is an error condition
	Green blinking, then off	SFP module can be removed from the router
	Off	No SFP installed in the port

GE LEDs—Gigabit Ethernet Port States

The router has two GE ports (labeled ETH 2/1 and ETH 2/2). Each GE port has a corresponding LED that indicates the GE link speed for the port.

Table 9   GE LEDs

Color and State	Description
Off	No link established
Green, 3 blinks/pause	1000 MB/s link speed
Green, 2 blinks/pause	100 MB/s link speed
Green, 1 blink/pause	10 MB/s link speed

FE LEDs—Fast Ethernet Port States

The router has six FE ports (labeled ETH 2/3 through ETH 2/8). Each FE port has a corresponding LED that indicates the FE link speed for the port.
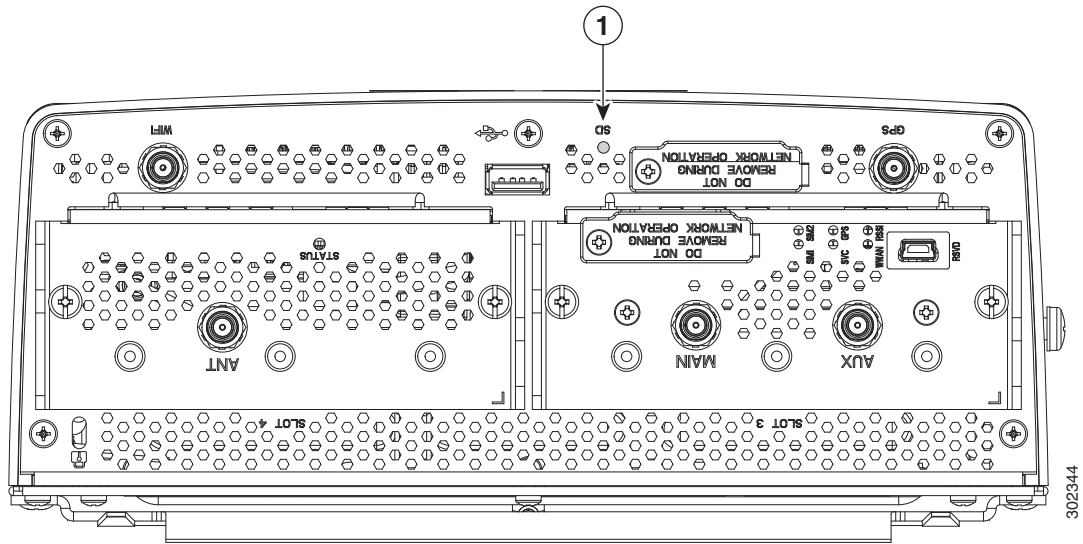
Table 10   FE LEDs

Color and State	Description
Off	No link established
Green, 2 blinks/pause	10 MB/s link speed
Green, 1 blink/pause	100 MB/s link speed

SD Card LED Location

The SD card LED (Item 1 in) is located on the router module panel (front panel) and indicates the state of the router SD card.

Figure 2   SD Card LED (Item 1)

SD LED–SD Card Status

Table 11   SD LED

Label	Color and State	Description
SD0	Green	SD flash card installed and operating normally **Note:** If the SD Card is removed, the SD flash memory module LED remains green solid until the router is rebooted.
	Green blinking	SD flash card data transfer in process
	Amber solid	■ Error when system accesses the SD flash card ■ Router cannot locate a system software image
	Amber blinking	Unsupported SD card installed in the slot

Related Commands

■ show led, page 88

show led

To view the status of the router SYS LED, use the **show led** command in privileged EXEC mode. The SYS LED is located on the router exterior (see Figure 1 on page 84),

During normal operation, the router can be installed in a substation, utility box, or other hard-to-access location, and you might not be able to view SYS LED. In this case, you can view the status of the LED from a remote location using the show LED command.

The values displayed in the **System LED** field are described in SYS LED–System Status, page 84.

This example shows the command output:

```
CGR1120> show led

System LED: green, solid

Summary of LED status provider:
Client        |    State
-----------------------------------------
cellular 3/1  | Blinking

--- end of list ---
CGR-1120>
```