Overview of Cisco 8200 Series Secure Routers

Cisco 8200 Series Secure Routers deliver secure networking simplified. Powered by the all-new secure networking processor and the unified Cisco secure networking platform, Cisco 8200 Series Secure Routers deliver robust, platform-level security, advanced performance engineering via routing and SD-WAN, and on-premises, infrastructure-as-code, or cloud management flexibility that enables businesses to seamlessly scale and grow. Each class of secure routers is designed to deliver risk reduction, enhanced reliability, and future readiness.

About Cisco 8200 Series Secure Routers

Designed for medium branch deployments, Cisco 8200 Series Secure Routers combine robust security, advanced performance engineering, and flexible management options. These routers offer seamless connectivity, dynamic path selection, and unified security enforcement, ensuring resilient operations and simplified IT overhead as your network grows. With integrated security and support for high-speed 10G interfaces, these platforms deliver scalable and reliable performance for modern WAN edge deployments.

Table 1: Base Models of the Cisco 8200 Series Secure Routers

Base Models	Front Panel Switch Ports	Management Ports	WAN Ports	Console Port	(Optional) POE	(Optional) WLAN	USB Type C
C8231-G2	8	1 RJ-45	2 SFP +	Serial RJ-45	PoE Output -53.5VDC (port 7), 0.56A, 30 W max	None	5V, 1.5A max

Base Models	Front Panel Switch Ports	Management Ports	WAN Ports	Console Port	(Optional) POE	(Optional) WLAN	USB Type C
C8235-G2	8	1 RJ-45	2 SFP +	Serial RJ-45, Micro USB	PoE output -54VDC, 555mA (Port 4-5) and 1.66A (Port 6-7) total 120W max	None	5V, 1.5A max

Note C8231-G2 has 8GB of DRAM and 16GB of bootflash memory.

C8235-G2 has 16GB of DRAM and bootflash memory.

For more information on the features and specifications of Cisco 8200 Series Secure Routers, refer to Cisco 8200 Series Secure Routers datasheet.
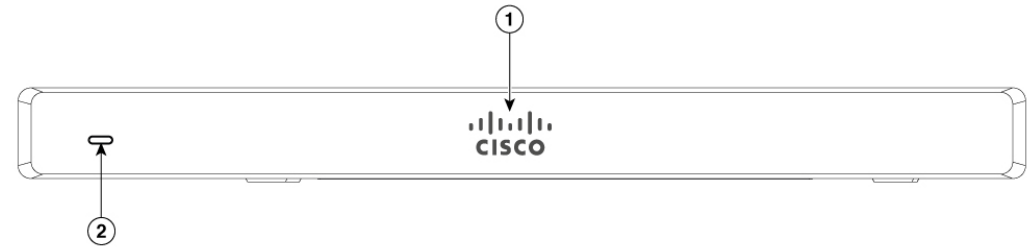
Chassis Views

Note The compliance label is present at the bottom of the product.
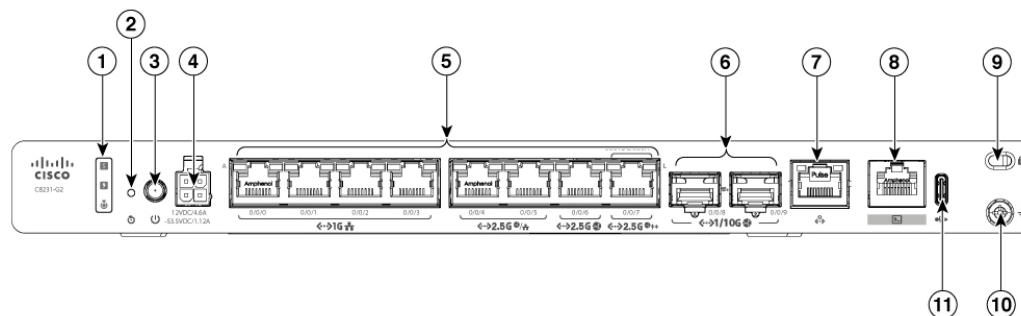
This section contains front and back panel views of the Cisco 8200 Series Secure Routers showing locations of the power and signal interfaces, interface slots, status indicators, and chassis identification labels.
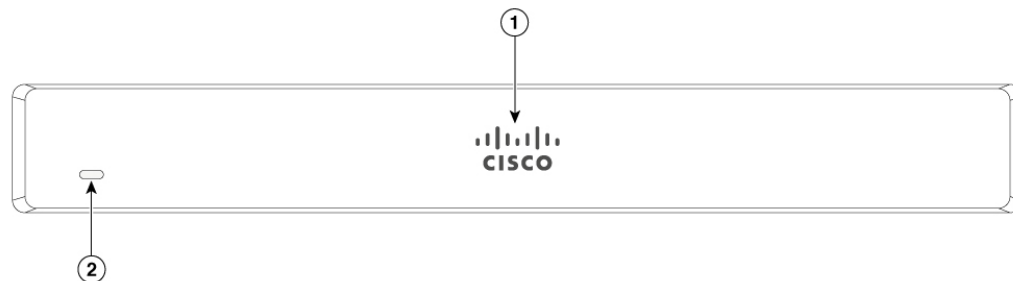
Figure 1: C8231-G2 - Front View

1	Non-illuminated Cisco logo	
2	Status LED	

Figure 2: C8231-G2 - I/O View

1	Status LEDs	2	Reset button
3	Power button	4	4-pin power connector
5	Ethernet ports (0-7)	6	SFP+ ports
7	Management port	8	Console port
9	Kensington lock slot	10	Ground point
11	USB Type C port		

Figure 3: C8235-G2 - Front View

1	Non-illuminated Cisco logo	
2	Status LED	

Figure 4: C8235-G2 - I/O View
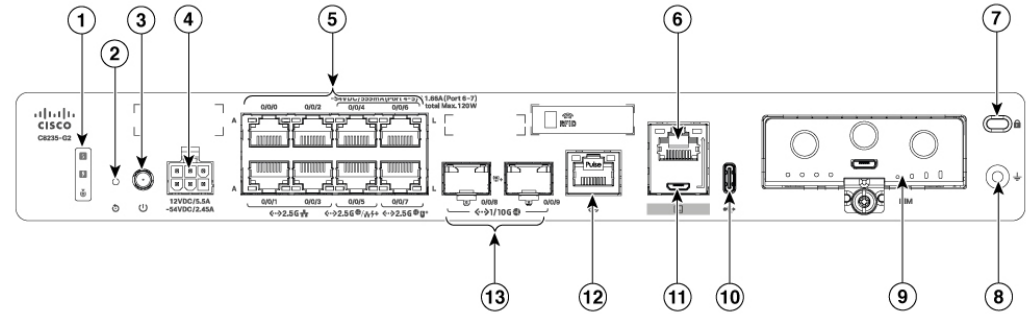
| 1	Status LEDs	2	Reset button
3	Power button	4	6-pin power connector
5	Ethernet ports	6	RJ45 Console port
7	Kensington lock slot	8	Ground point
9	Pluggable interface module (PIM) slot	10	USB Type C port
11	Micro-USB console port	12	Management port
13	SFP+ ports		

LED Indicators

This section summarizes the LED indicators for Cisco 8200 Series Secure Routers.

Figure 5: LED Indicators C8231-G2 - I/O Side
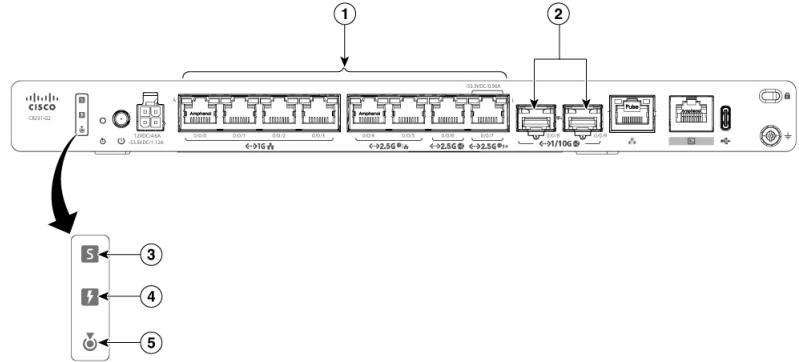
1	Ethernet ports LED(0-7)	2	SFP port LED
3	Status LED	4	POE LED
5	Blue Beacon LED		

Figure 6: LED Indicators C8235-G2 - I/O Side
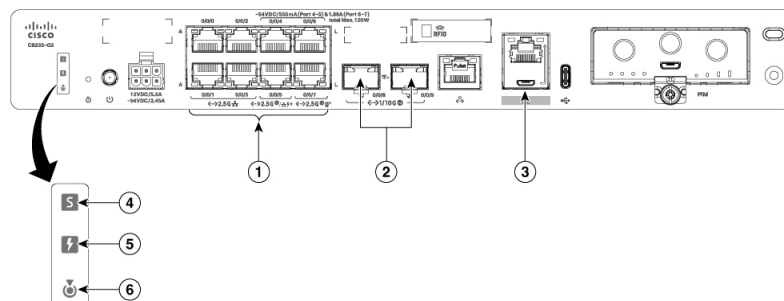
1	Ethernet ports LED 0-7 (0, 2, 4, 6 at the top and 1, 3, 5, 7 at the bottom)	2	SFP port LED
3	RJ-45 console LED	4	Status LED
5	POE LED	6	Blue Beacon LED

Table 2: LED Indicators for Cisco 8200 Series Secure Routers

Port	LED Color	Function	Description
Status (1 LED)	Tri-colour LED: Green, Amber and Red	System power status	**Off**: No power.
			Red steady on: System is booting.
			Red blink: The system has experienced a hardware integrity error.
			Amber steady on: Rommon has completed booting and system is a rommon prompt or booting IOS.
			Green steady on: Normal system operation.
POE_OK (1 LED)	Bi-colour LED: Green and Amber	POE power supply status	**Off**: No -53.5V POE power supply connected to router.
			Green Steady On: -53.5V POE power supply connected and all powered port operating normally
			Amber steady on: -53.5V POE power supply connected, but one or more POE ports has a fault.

Port	LED Color	Function	Description	
Ethernet Ports, without POE (2 LEDs per port)	Green	Activity / Link	**Left LED**: Activity	**Right LED**: Link
			Off: No data	**Off**: No link
			Green blink: Tx/Rx data	**Green steady on**:Link up
Ethernet Ports, with POE (2 LEDs per port)	Bi- colour LED Green and Amber	Activity/Link/POE status	**Left LED**: Activity	**Right LED**: Link/POE fault
			Off: No data	**Off**: No link
			Green blink: Tx/Rx data	**Green steady on**:Link up
				Amber steady on:POE fault
Console port RJ45 port/Micro USB console (1 LED)	Green	Console or AUX port function for RJ45/USB mode	**Left LED**: Integrated RJ45 Console or AUX port function enabled **Off**: USB console mode **Green on**: Console enabled	**Right LED**: Integrated RJ45 USB Mode Active **Off**:RJ45 Console /AUX Mode or nothing is connected **Green On**: USB mode
Blue beacon	Blue	Unit rack location	**Off**: Beacon not activated **On**: Beacon activated	
SFP Port 1 LED per port	Bi- colour LED Green and Amber	Link/Fault	**Off**: No link (or SFP not present) **Green**: Link up **Amber**: The SFP is not supported or it is in a fault state	

Reset Button

The actuation of the Reset button is only recognized during ROMmon boot, that is, as the router comes to the ROMmon prompt.

The Reset button does not require much force to be pressed. The Reset button should be pressed only with a small implement such as the tip of a pen or a paper clip. When the Reset button is pressed at startup, the system LED turns green.

For more information, see the Reset Overview section of the Cisco 8200 Series Secure Routers Software Configuration Guide.

Power Supply

Cisco 8200 Series Secure Routers support PoE and PoE+ power to endpoints. The product power specifications are as follows:

Power specifications for C8231-G2

- AC input voltage: Universal 100 to 240 VAC

- Frequency: 50 to 60 Hz

- Output voltage: +12VDC for system power and -53.5VDC for PoE power

- Optional PoE and PoE+ port output power: -53.5VDC, 0.56A (Port 7)

- Maximum POE port combined output power: 30W, -53.5VDC, 0.56A (Port 7)

Power specifications for C8235-G2

- AC input voltage: Universal 100 to 240 VAC

- Frequency: 50 to 60 Hz

- Output voltage: +12VDC for system power and -54VDC for PoE power

- Optional PoE and PoE+ port output power: -54VDC, 555mA (Port 4-5) and 1.66A (Port 6-7)

- Maximum POE port combined output power: 120W

Note The PoE daughter card on the C8235-G2 is included only when a PoE power supply (PSU) is selected at the time of the initial order. The PoE-DC is not field-upgradeable

Specifications of Cisco 8200 Series Secure Routers

For specifications on the Cisco 8200 Series Secure Routers, see the Cisco 8200 Series Secure Routers' datasheet.

Periodic Inspection and Cleaning

We recommend that you periodically inspect and clean the external surface of the router. Removing is recommended to minimize the negative impact of environmental dust or debris. The frequency of inspection and cleaning is dependent upon the severity of the environmental conditions, but we recommend cleaning the router once every six months. Cleaning involves vacuuming surfaces.

Note Sites with ambient temperatures consistently above 25°C or 77°F and with potentially high levels of dust or debris might require periodic preventative maintenance cleaning.