



# Cisco 8200 Series Secure Routers

A Part of the Cisco 8000 Series Secure Router Family.

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## Overview

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.

### Platform highlights

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. Whether used for traditional routing or SD-WAN applications, the Cisco 8200 Series supports AI-driven growth to meet digital branch demands.

### Industries

- Retail (mid-sized stores, regional chains)
- Financial services (regional bank branches)
- Healthcare (community clinics)
- Professional services (law, insurance, consulting offices)

### Sites

- Medium-sized branch offices
- Regional retail outlets
- Healthcare clinics with moderate staff and patient volume
- Professional services offices

## Use Cases

- Secure routing or SD-WAN for distributed branches
- Direct internet access for cloud and SaaS applications
- Unified security and performance for growing sites
- Application visibility and optimization for multiple users

## Key features

<b>Hardware-accelerated security and networking</b>	<ul style="list-style-type: none"><li>▪ Dedicated secure networking processor for fast cryptography and deep packet inspection</li><li>▪ Hardware acceleration ensures high throughput with robust threat protection</li></ul>
<b>Fanless model for medium branch</b>	<ul style="list-style-type: none"><li>▪ Quiet, reliable fanless SKU ideal for noise-sensitive or space-constrained sites</li><li>▪ Reduced moving parts for lower maintenance and enhanced durability</li></ul>
<b>Integrated branch connectivity</b>	<ul style="list-style-type: none"><li>▪ Combines NGFW security, routing, and SD-WAN in one unified platform</li><li>▪ Simplifies branch infrastructure and management with all-in-one secure access</li></ul>
<b>Secure networking with PQC readiness</b>	<ul style="list-style-type: none"><li>▪ Future-proofs branch security with advanced, quantum-resistant encryption</li></ul>

# Models and specifications

Cisco 8200 Series Secure Routers are 1 RU fixed form factor devices and include two models: **Cisco C8235-G2** and **C8231-G2**.

- Cisco C8235-G2** provides 2 x 10 Gbps SFP/SFP+ and 8 x 2.5G Multigigabit RJ45 ports.
- Cisco C8231-G2** provides 2 x 10 Gbps SFP/SFP+, 4 x 2.5G Multigigabit RJ45 and 4 x 1G RJ45 ports.

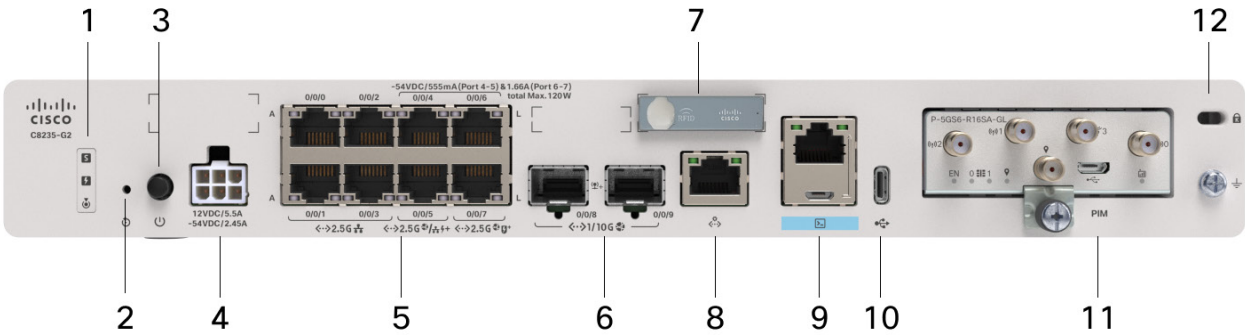


Table 1. Front Panel of Cisco C8235-G2 Secure Router

Label	Description
1	Status LEDs
2	Reset button
3	Power button
4	Power supply input (AC / AC + PoE)
5	2.5G Multigigabit RJ45 ports

6	10G SFP/SFP+ ports
7	RFID
8	Management RJ45 port
9	Console RJ45 port / Micro-USB Console port
10	USB 3.0 Type C Storage
11	PIM slot
12	Kensington lock

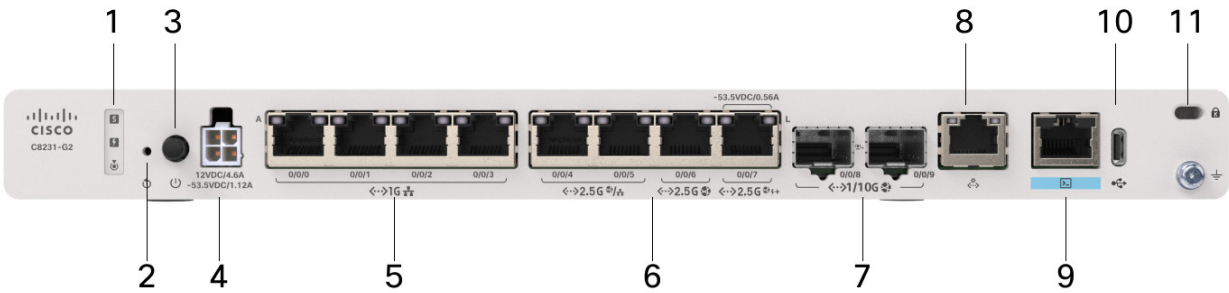


Table 2. Front Panel of a Cisco C8231-G2 Secure Router

Label	Description
1	Status LEDs



2	Reset button
3	Power button
4	Power supply input (AC / AC + PoE)
5	1G RJ45 ports
6	2.5G Multigigabit RJ45 ports
7	10G SFP/SFP+ ports
8	Management RJ45 port
9	Console RJ45 port
10	USB 3.0 Type C Storage
11	Kensington lock

Table 3. Technical specifications

	Cisco C8235-G2	Cisco C8231-G2
Interfaces and slots		
WAN ports	2 x 10G SFP/SFP+ 2 x 2.5G mGig RJ45 (2x UPoE+)	2 x 10G SFP/SFP+ 2 x 2.5G mGig RJ45 (1x PoE+)
Flex ports	2 x 2.5G mGig RJ45 (2x PoE+)	2 x 2.5G mGig RJ45
LAN ports	4 x 2.5G mGig RJ45	4 x 1G mGig RJ45
Expansion slots	-	-

	Cisco C8235-G2	Cisco C8231-G2
Cellular slot	1 x PIM	-
Management port	1 x RJ45 OOB Mgmt 1 x RJ45 / 1x micro-USB console	1 x RJ45 OOB Mgmt 1 x RJ45 console
<b>Memory and storage</b>		
DRAM	16 GB	8 GB
Storage	16 GB	16 GB
Power supply	66W AC (default) 230W AC for PoE (PoE Budget - 120W)	66W AC (default) 115W AC for PoE (PoE Budget - 30W)
<b>Throughput</b>		
Forwarding (512B)	19 Gbps	19 Gbps
IPsec (512B)	5 Gbps	5 Gbps
SD-WAN* (512B)	4 Gbps	4 Gbps
Threat protection* (EMIX)	2.4 Gbps	1 Gbps

\*SD-WAN feature combination: IPsec + QoS + Deep Packet Inspection + Flexible Netflow

\*Threat Protection: 100%DIA-NAT + NGFW + IPS + URLF + AMP

Table 4. Physical specifications

Description	Cisco C8235-G2	Cisco C8231-G2
Dimensions (H x W x D)	1.65 in x 8.9 in x 12.7 in 2.835 in x 12 in x 17.56 in (with rackmount tray holding power supply)	1.14 in x 8.1 in x 12.23 in 2.835 in x 12 in x 17.56 in (with rackmount tray holding power supply)
Rack Units (RU)	Desktop	Desktop
Chassis weight	7 lbs	5 lbs
Input voltage	AC: 85 to 264 VAC	AC: 85 to 264 VAC
Operating temperature	0 to 40°C, at sea level	0 to 40°C, at sea level
Storage temperature	-40 to 70°C	-40 to 70°C
Relative humidity (noncondensing)	Operating: 5 to 85% Non-operating and Storage: 5 to 95%	

## Modules

Table 4. Modules

Product number	Description
<b>Fixed Wireless Access*</b>	
P-5GS6-R16SA-GL*	5G Sub-6 GHz Pluggable – 5G SA Global
P-LTEA7-NA*	Cat 7 LTE Advanced Pluggable – North America
P-LTEA7-EAL*	Cat 7 LTE Advanced Pluggable – EMEA, APAC, and LATAM
P-LTEA7-JP*	Cat 7 LTE Advanced Pluggable – Japan

\*Supported only on C8235-G2



## Software management

The minimum Cisco IOS XE release versions for the Cisco 8200 Series Secure Routers are listed below:

	Device OS	Cisco Catalyst SD-WAN Manager
Cisco 8200 Series Secure Routers	Starting IOS XE 17.18.1	Starting SD-WAN Release 20.18.1

## Ordering information

For a detailed overview of the ordering process, please visit the **Cisco 8200 Series Secure Routers Ordering Guide**.

## Warranty

Cisco 8200 Series Secure Routers come standard with a Cisco Limited 2-Year Return To Factory Hardware Warranty. For more information, refer to:

<https://www.cisco.com/c/en/us/products/warranties/warr-2yr-ltd-hw.html>



## Sustainability profile

Cisco is embedding sustainability into the product lifecycle—from manufacturing to end of use. Designed with consideration for Cisco’s [Circular Design Principles](#), our products feature both individual and portfolio-wide programs and innovations, including those that address efficient architecture design, power consumption, energy management, packaging sustainability, and takeback. These elements are pivotal in reducing operational costs and advancing net-zero greenhouse gas (GHG) emissions targets, and other sustainability-related ambitions.

Information about Cisco’s environmental, social, and governance (ESG) initiatives and performance is available in [Cisco’s Purpose Reporting Hub](#).

Table 7. Sustainability references

Sustainability topic		Description
Power	Power management configuration	The power management chapter in the System Management Configuration Guide provides detailed information on power management features and configurations available for the Cisco 8200 Series Secure Routers. The features discussed include power-supply modes, and power-budgeting considerations.
	Auto-off ports without Small Form-factor Pluggable (SFP)	Once enabled, the system checks for the presence of SFPs in Fiber ports on a regular basis and turns on SerDes when SFP is detected. If no SFP is detected, the system will keep SerDes off to save energy.
	Auto-off port LEDs	Once enabled, port light emitting diodes (LEDs) will stay depowered saving energy until a link event is triggered or manually enabled by Command Line Interface or Mode button.



Sustainability topic		Description
Energy management	Energy management dashboard	<p>The Energy Management dashboard on the Catalyst SD-WAN Manager offers comprehensive energy management capabilities, allowing users to monitor energy usage, energy mix, costs, and greenhouse gas emissions in real time</p> <p><a href="#">Energy Management</a></p>
	Environmental monitoring configuration	<p>The environmental monitoring chapter in the System Management Configuration Guide provides guidelines for configuring monitoring of environmental conditions of chassis components.</p>

Sustainability topic		Description
Materials, modularity, and reuse	Hardware standardization and modularity	Cisco 8200 Series Secure Routers use standard subassemblies and common components across products to streamline production and enhance repairability and upgradability.
	Simplified architecture	Cisco 8200 Series Secure Routers offer a simplified architecture by consolidating multiple discrete ASIC/NPU components into a central system-on-chip (SoC) architecture, providing multiple discrete functions in a more integrated design.
	Powder-coat finish	Cisco 8200 Series Secure Routers use a powder-coating finish instead of oil-based wet paint. In comparison, a powder-coating finish reduces the amount of harmful solvents used and volatile organic compounds (VOCs) emitted during the painting process.
	Bezel-free design	Cisco 8200 Series Secure Routers use a bezel-free design reducing plastic usage.
	Cisco Takeback and Reuse	This program allows customers to return used equipment for responsible recycling and reuse. <a href="#">Takeback and Reuse Program</a>
	Cisco Refresh	This program offers certified remanufactured products, providing cost-effective alternatives to new equipment. <a href="#">Cisco Refresh</a>
	Foam reduction	Cisco 8000 Series Secure Routers are packaged with corrugated and fiber flute materials, containing minimum 25% post-consumer recycled content. <a href="#">Circular economy and packaging sustainability</a>
	Accessory opt-in	Accessory opt-in allows customers to select whether to include the accessory kit. Not including the kit results in using fewer materials and reducing waste. The default is now to not include the kit unless it is required.

Sustainability topic		Description
Regulatory compliance	Environmental compliance	<p>Information regarding Cisco compliance with applicable environmental laws and regulations is available at the Environmental Compliance section of Cisco's Purpose Reporting Hub.</p> <p><a href="#">Environmental compliance</a></p>
	Product Approvals Status (PAS)	<p>Information regarding the certification status for given Cisco products in certain countries is available at Cisco's self-service PAS database.</p> <p><a href="#">PAS database</a></p>
	Product-related materials compliance	<p>This page addresses Cisco's position regarding relevant product-related materials legislation, such as Restriction of Hazardous Substances (RoHS); Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH).</p> <p><a href="#">RoHS and REACH</a></p>
	Waste Electrical and Electronic Equipment (WEEE), battery, and packaging compliance	<p>This page discusses Cisco's position regarding relevant product-related legislation on recycling, battery, and packaging.</p> <p><a href="#">WEEE, battery and packaging</a></p>
	Cisco packaging materials and codes	<p>This table provides packaging material identification for packaging used for Cisco products.</p> <p><a href="#">Packaging materials and codes</a></p>



Sustainability topic		Description
General	Sustainability inquiries	For ESG or CSR inquiries, please contact your Cisco account team.
	Cisco policies, positions, and guides	Links to select Cisco’s Environmental Sustainability policies, positions, and guides are provided in the “Policies, positions, and guides” section of Cisco’s Purpose Reporting Hub. <a href="#">Policies, positions, and guides</a>
	Cisco Green Pay	This page provides an overview of Cisco Green Pay, a financing program aimed at promoting more sustainable technology adoption by providing flexible payment options. <a href="#">Green Pay</a>

## Appendix

### Safety and compliance

#### Chassis

The section below lists the safety and compliance information for the Cisco 8200 Series Secure Routers chassis.

Safety and certifications	EMC and EMI compliance
<ul style="list-style-type: none"> <li>• UL 60950-1</li> <li>• CAN/CSA-C22.2 No. 60950-1</li> <li>• UL 62368-1</li> <li>• CAN/CSA-C22.2 No. 62368-1</li> <li>• EN 60950-1</li> <li>• IEC 60950-1</li> <li>• IEC 62368-1</li> <li>• EN 62368-1</li> <li>• AS/NZS 60950.1</li> <li>• AS/NZS 62368.1</li> <li>• IEC/EN 60825 Laser Safety</li> <li>• FDA: Code of Federal Regulations Laser Safety</li> </ul>	<ul style="list-style-type: none"> <li>• 47 CFR Part 15 Class A</li> <li>• ICES 003 Class A</li> <li>• AS/NZS CISPR 32 Class A</li> <li>• CISPR 32 Class A</li> <li>• EN55032 Class A</li> <li>• VCCI-CISPR 32 Class A</li> <li>• CNS 13438 Class A</li> <li>• KS32 Class A</li> <li>• IEC/EN 61000-3-2: Power Line Harmonics</li> <li>• IEC/EN 61000-3-3: Voltage Fluctuations and Flicker</li> <li>• IEC/EN-61000-4-2: Electrostatic Discharge Immunity</li> <li>• IEC/EN-61000-4-3: Radiated Immunity</li> <li>• IEC/EN-61000-4-4: Electrical Fast Transient Immunity</li> <li>• IEC/EN-61000-4-5: Surge AC, DC, and Signal Ports</li> <li>• IEC/EN-61000-4-6: Immunity to Conducted Disturbances</li> <li>• IEC/EN-61000-4-8: Power Frequency Magnetic Field Immunity</li> <li>• IEC/EN-61000-4-11: Voltage DIPS, Short Interruptions, and Voltage Variations</li> <li>• KS C 9835</li> <li>• EN300 386: Telecommunications Network Equipment (EMC)</li> <li>• EN55032: Multimedia Equipment (Emissions)</li> <li>• EN55024: Information Technology Equipment (Immunity)</li> <li>• EN55035: Multimedia Equipment (Immunity)</li> <li>• EN61000-6-1: Generic Immunity Standard</li> </ul>



Document History

New or revised topic	Described in	Date
Document created	Datasheet	June 10, 2025

Next steps

Cisco Capital	Cisco Capital flexible payment solutions offer choices so you get the tech you need and the business outcomes you want.
Explore Cisco Capital	<a href="https://www.cisco.com/site/us/en/buy/payment-solutions/index.html">https://www.cisco.com/site/us/en/buy/payment-solutions/index.html</a>
Find a partner	Solve your business challenges by finding a Cisco partner authorized to design, sell, and support custom solutions.
Meet our partners	<a href="https://www.cisco.com/site/us/en/partners/connect-with-a-partner/index.html">https://www.cisco.com/site/us/en/partners/connect-with-a-partner/index.html</a>
Community	Cisco Community is an active and collaborative place to learn more about our products and ask questions of peers and Cisco experts.
Join the community	<a href="https://community.cisco.com/">https://community.cisco.com/</a>
Cisco Services	Transform with more ease and less risk while making sure your technology delivers tangible business value.
Browse Cisco Services	<a href="https://www.cisco.com/site/us/en/services/index.html">https://www.cisco.com/site/us/en/services/index.html</a>