



Cisco C8255-G2-UCSXE Secure Router Node

CISCO SYSTEMS
170 WEST TASMAN DR.
SAN JOSE, CA, 95134
WWW.CISCO.COM

PUBLICATION HISTORY

REV A.01 OCTOBER 12, 2026

OVERVIEW	3
SECURE ROUTER STANDARD CAPABILITIES and FEATURES	4
STEP 1 CHOOSE BASE CISCO C8255-G2-UCSXE SECURE ROUTER NODE SKU	6
STEP 2 SELECT DEPLOYMENT TYPE & SOFTWARE SUBSCRIPTION TIER	7
Perpetual OS Software	7
Subscription Software	7
Ordering information	8
Warranty	8

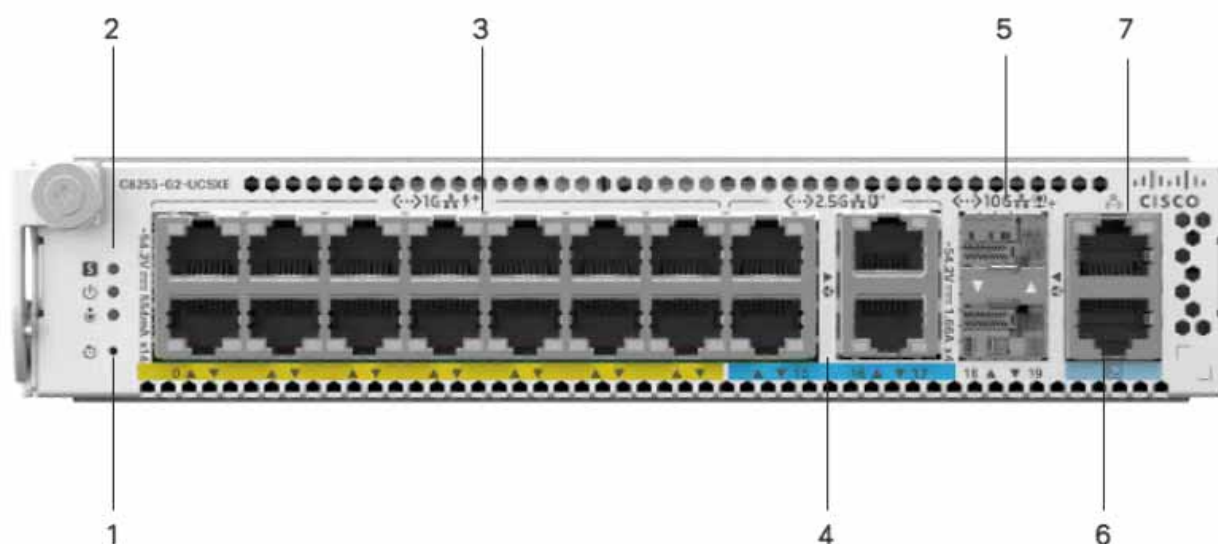
OVERVIEW

Cisco Unified Edge brings together computing, storage, routing, switching, and security into a single configurable solution to help IT organizations simplify the deployment, operations, and lifecycle management of edge infrastructure at global scale. Cisco Unified Edge is a fully integrated, edge-optimized, AI-ready, and SaaS managed platform, engineered to deliver a superior user experience with unprecedented visibility, consistency, and control for a host of edge use cases.

Cisco Unified Edge is a modular edge platform, with a 3RU, short-depth, multi-mountable chassis with features to operate in extended temperature range (5°C to 45°C), maintain a quiet acoustic profile (40s dBA at 25°C and 20% PWM), and offer protection against high particulate environments, allowing deployments in a wide range of physical spaces.

Cisco Unified Edge Secure Router Node is a modular secure router integrated with the Cisco UCS XE9305 chassis. It extends the industry-leading Cisco 8200 Series Secure Routers architecture directly into the Unified Edge chassis mid-plane, delivering native high-throughput WAN edge routing, hardware-accelerated Cisco Catalyst SD-WAN capabilities, multi-gigabit LAN switching, and comprehensive embedded threat protection in a single compact node.

Figure 1 Front View of Cisco C8255-G2-UCSX E Secure Router Node



1	Reset button	2	Status, power, and locator LEDs
3	14x1 GE RJ-45 ports	4	4 x 2.5 GE Multigigabit RJ-45 ports
5	2 x 1/10 GE SFP+ ports	6	Console RJ-45 port
7	-	-	-

SECURE ROUTER STANDARD CAPABILITIES and FEATURES

Table 1 lists the capabilities and features of the base Cisco C8255-G2-UCSXE Secure Router Node.

Table 1 Capabilities and Features

Capability/Feature	Description
Model and chassis	C8255-G2-UCSXE is a single slot modular router node that installs into the Cisco UCSXE 9305 Chassis
Port configuration	Two 1/10 Gbps SFP+ ports; four 2.5 GE Multigigabit RJ-45 ports; fourteen 1 GE RJ-45 ports.
WAN ports	None
Flex ports	2x 1/10 GE SFP+ 2x 2.5 GE mGig (UPOE+)
LAN ports	2x 2.5 GE mGig (UPOE+) 14x 1 GE RJ-45 (PoE+)
Cellular slot	None.
Management and console	1x RJ-45 OOB mgmt 1x RJ-45 console
Memory	16 GB DRAM.
Storage	16 GB default storage, upto 600 GB.
Power supply (default)	Powered within the Cisco UCS XE9305 Chassis; PoE budget: 360 W

NOTE: Cisco UCSXE 9305 Chassis spec sheet can be found here for detailed information:

<https://www.cisco.com/site/us/en/products/collateral/computing/unified-edge/cisco-ucs-xe9305-chassis-ds.html>

Table 2 Throughput and scale

Capability	Description
Forwarding (512B)	19 Gbps
IP sec(512B)	5 Gbps
SD-WAN ¹ (512B)	4 Gbps
Threat protection ² (EMIX)	2.4 Gbps
IPv4/IPv6 routes	1.5M
IPsec tunnels	700
IPv4 Access Control Lists (ACLs)	3000
IPv4 Access Control Entries (ACEs)	15000
Network Address Translation (NAT) sessions	1.5M
Virtual Route Forwarding (VRF) instances	4000

Notes:

1. *SD-WAN feature combination: IPsec + Quality of Service (QoS) + deep packet inspection + Flexible NetFlow
2. Threat protection: 100% Direct Internet Access (DIA)-NAT + NGFW + Intrusion Prevention System (IPS) + URL Filtering + Advanced Malware Protection (AMP)

STEP 1 CHOOSE BASE CISCO C8255-G2-UCSXE SECURE ROUTER NODE SKU

Top Level ordering product ID (PID) of the Cisco C8255-G2-UCSXE Secure Router Node as shown in [Table 3](#)

Table 3 Top level ordering PID

Product ID (PID)	Description
CSWAN-MEDIUM	Cisco Catalyst SD-WAN Medium Branch Guided Configuration (Recommended for multi-tier configurations) and if it is a Standard or TAA order to be configured.
C8255-G2-UCSXE	Cisco Secure Router Node PID to be selected for configuration



NOTE:

- Spare chassis UCSXE-9305=(with NFC enabled left slam latch) and UCSXE-9305-CHS=(without NFC enabled left slam latch) can be used for getting a fully configured empty chassis w/o the compute node.
- Compute node can be ordered through UCSXE-M8-MLB;
https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/release/notes/XE_series_m8_ordering-guide.html

STEP 2 SELECT DEPLOYMENT TYPE & SOFTWARE SUBSCRIPTION TIER

Choose Software Management and Support

The available single-slot secure router nodes for the chassis is shown in [Table 4](#).

Table 4 Available Secure Router Nodes

Product ID (PID)	Device OS	Cisco Catalyst SD-WAN Manager
C8255-G2-UCSXE	IOS XE Release 26.2.1 and later	SD-WAN Release 26.2.1 and later



NOTE:

- When UCS-XE9305 chassis is configured solely with C8255-G2-UCSXE secure router nodes and no compute nodes, No Cisco Intersight license is required. Only Cisco Catalyst software licensing applies.
- When UCS-XE9305 chassis contains both compute nodes and C8255-G2-UCSXE, Intersight Server licenses are required only for the compute nodes. The Secure Router Node remains licensed via Catalyst software Licensing.

Perpetual OS Software

Each Cisco 8000 Series Secure Router comes preloaded with Cisco Routing OS Essentials, an embedded operating system software that delivers fundamental device functionality. An optional upgrade to OS Advantage perpetual license is also available under respective hardware SKU.

Subscription Software

You can choose a subscription license in addition to hardware with OS Essentials to suit your specific deployment use-case.

- **Cisco Routing Advantage:** Offers advanced routing capabilities for a traditional routing deployment.
- **Cisco WAN Essentials/Advantage:** Choose between Essentials and Advantage packages for Cisco Catalyst™ SD-WAN deployment.

NOTE: Note: Cisco Routing Advantage & OS Advantage provide the same license as term and perpetual entitlements respectively.

For a full list of features, visit the [Cisco Routing and WAN Licensing Feature Matrix](#).

Ordering information

For a detailed overview of the ordering process, please visit the [Cisco 8000 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>



Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV Amsterdam,
The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at www.cisco.com/go/offices.

Cisco and the Cisco Logo are trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and other countries. A listing of Cisco's trademarks can be found at www.cisco.com/go/trademarks. Third party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1005R)