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# Cisco Catalyst 8200 Series Edge Platforms

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## Product overview

### Product highlights

Table 1. Product highlights

Product feature	Benefits and description
<b>Multicore processors</b>	<ul style="list-style-type: none"><li>• C8200-1N-4T uses an Intel® x86 CPU with 8 GB memory default</li><li>• C8200L-1N-4T uses an Intel x86 CPU with 4 GB memory default</li><li>• High-performance multicore processors support high-speed WAN connections</li><li>• Dynamic core allocation architecture will repurpose unused cores into forwarding entities as per the user's configuration</li></ul>
<b>Embedded IPsec VPN hardware acceleration</b>	<ul style="list-style-type: none"><li>• C8200-1N-4T enables up to 1 Gbps IPsec traffic</li><li>• C8200L-1N-4T enables up to 500 Mbps IPsec traffic</li><li>• Increases scalability for IPsec throughput requirements</li><li>• SSL and crypto hardware acceleration</li></ul>
<b>Integrated Gigabit Ethernet ports</b>	<ul style="list-style-type: none"><li>• Provides four built-in Ethernet WAN ports</li><li>• Two Ethernet ports are Small Form-Factor Pluggable (SFP) and two are RJ45 ports, enabling fiber as well as copper connectivity</li></ul>
<b>DRAM</b>	<ul style="list-style-type: none"><li>• C8200-1N-4T ships with 8 GB DRAM</li><li>• C8200L-1N-4T ships with 4 GB DRAM</li><li>• Both models can be upgraded to 16 GB and 32 GB for higher scale and performance</li></ul>
<b>Flash memory support</b>	<ul style="list-style-type: none"><li>• Both models have an integrated onboard 8-GB flash and are not upgradable. M.2 storage provides flash upgrade options</li></ul>
<b>M.2 storage</b>	<ul style="list-style-type: none"><li>• The C8200-1N-4T is shipped with default 16G M.2 storage and can be upgraded to 32G M.2 USB and 600G M.2 Non-Volatile Memory Express (NVMe) Storage</li><li>• The C8200L-1N-4T has no default M.2 storage and can be upgraded to 16G, 32G USB and 600G M.2 Non-Volatile Memory Express (NVMe) Storage</li></ul>
<b>Power supply</b>	<ul style="list-style-type: none"><li>• Both models use an internal, fixed AC power supply</li><li>• Power over Ethernet (PoE) is available as an option</li><li>• PoE ports added in the Network Interface Module (NIM) slot will require an additional external PoE power supply</li></ul>
<b>Modularity and form factor</b>	<ul style="list-style-type: none"><li>• 1-Rack Unit (1RU) form factor</li><li>• Supports NIM and Pluggable Interface Module (PIM) slots</li></ul>
<b>Integrated security</b>	<ul style="list-style-type: none"><li>• Hardware-anchored Secure Boot and Secure Unique Device Identification (SUDI) support for Plug and Play to verify the identity of the hardware and software</li></ul>

## Platform details

### Models and configurations



**Figure 1.**  
Catalyst 8200 Series with 1 NIM slot and 4x 1 Gigabit Ethernet WAN ports

Tables 2 and 3 detail platform specifications and performance, respectively.

**Table 2.** Platform specifications

Model	Description	1G port density	Slots	Memory (DRAM) default	Storage (M.2 SSD) default
C8200-1N-4T	C8200 1RU w/ 1 NIM slot and 4x 1 Gigabit Ethernet WAN ports	4	1 NIM 1 PIM	8 GB	16 GB
C8200L-1N-4T	C8200L 1RU w/ 1 NIM slot and 4x 1 Gigabit Ethernet WAN ports	4	1 NIM 1 PIM	4 GB	16 GB

## Platform performance

**Table 3a** Cisco controller mode (SD-WAN) performance specifications

Feature	C8200-1N-4T	C8200L-1N-4T
SD-WAN IPsec throughput (1400 bytes, clear text)	Up to 1 Gbps	Up to 500 Mbps
SD-WAN IPsec throughput (IMIX,* clear text**)	900 Mbps	400 Mbps
SD-WAN overlay tunnels scale	2500	1500

\* IMIX is average packet size of 352 bytes.

\*\*Based on clear text traffic measurement from traffic generator.

**Table 3b** Cisco autonomous mode (non SD-WAN) performance specifications

Feature	C8200-1N-4T	C8200L-1N-4T
IPv4 forwarding throughput (1400 bytes)	Up to 3.8 Gbps	Up to 3.8 Gbps
IPsec throughput (1400 bytes, clear text**)	Up to 1 Gbps	Up to 500 Mbps
Number of IPsec static virtual tunnel interface (SVTI) tunnels	2500	1500

\*\*Based on clear text traffic measurement from traffic generator.

**Table 3c** Cisco autonomous mode (non SD-WAN) system scalability

Feature	C8200-1N-4T	C8200L-1N-4T
Number of access control lists (ACLs) per system	4000	4000
Number of IPv4 access control entries (ACEs) per system	72,000	72,000
Number of IPv4 routes	1.6M with default 8 GB, up to 4M with 32 GB	800,000 with default 4 GB, up to 4M with 32 GB
Number of IPv6 routes	1.5M with default 8 GB, up to 4M with 32 GB	800,000 with default 4 GB, up to 4M with 32 GB
Number of queues	16,000	16,000
Number of Network Address Translation (NAT) sessions	1.2M with default 8 GB, up to 2M with 32 GB	600,000 with default 8 GB, up to 2M with 32 GB
Number of firewall sessions	512,000	512,000
Number of Virtual Route Forwarding (VRF) instances	4000	2000

## Overall platform benefits

### Accelerated services with Cisco Software-Defined WAN

Cisco SD-WAN is a set of intelligent software services that allow you to connect users, devices, and branch office locations reliably and securely across a diverse set of WAN transport links. The Cisco Catalyst 8000 Edge Platforms Family can dynamically route traffic across the “best” link based on up-to-the-minute application and network conditions for great application experiences. With Cisco SD-WAN you get tight control over application performance, bandwidth usage, data privacy, and availability of your WAN links. This control is critical as branches conduct greater volumes of mission-critical business using both on-premises and cloud controllers.

### Application performance optimization

Ensure that SD-WAN networks meet Service-Level Agreements (SLAs) and maintain strong performance, even if network problems occur. With branch multicloud access, you can accelerate your Software-as-a-Service (SaaS) applications with a simple template push from the SD-WAN controller. Features such as TCP optimization, Forward Error Correction (FEC), and packet duplication enhance application performance for a better user experience.

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## Multilayer security

You can now move your traditional and complex WAN networks into an agile, software-defined WAN with integrated security. The Catalyst 8200 Series Edge Platforms connect branch offices to the internet and cloud with industry-leading protection against major web attacks. Secure Direct Internet Access (DIA) from the branches helps optimize branch workloads for improved performance, specifically for cloud-hosted applications. At the same time, secure DIA helps ensure that your branch is protected from external threats.

## Application visibility\*

Applications and users are more distributed than ever, and the internet has effectively become the new enterprise WAN. As organizations continue to embrace internet, cloud, and SaaS, network and IT teams are challenged to deliver consistent and reliable connectivity and application performance over networks and services they don't own or directly control.

The Catalyst 8200 Series Edge Platforms are integrated with Cisco ThousandEyes internet and cloud intelligence. IT managers now have expanded visibility, including hop-by-hop analytics, into network underlay, proactive monitoring of SD-WAN overlay, and performance measurement of SaaS applications. This granular visibility ultimately lowers the Mean Time to Identification of Issues (MTTI) and accelerates resolution time.

\*Available in Release 17.6, targeted for Q3CY21.

## Unified communications

The Catalyst 8200 Series Edge Platforms offer rich voice services in both SD-WAN and traditional Cisco IOS XE software feature stacks. Cisco is the only SD-WAN vendor to natively integrate analog and digital IP directly into single Customer Premises Equipment (CPE), reducing CapEx and OpEx. In SD-WAN mode, the Catalyst 8200 Series also helps prevent internal and external outages with Survivable Remote Site Telephony (SRST), enabling branch routers to assume the role of call control PBX for telephony survivability. They also continue to support a long list of traditional Cisco IOS XE voice use cases such as Cisco Unified Border Element (CUBE), Cisco Unified Communications Manager, Session Border Controller, SRST, ISDN, and voice over IP.

## Cloud-native agility with a programmable software architecture

Cisco continues to offer a feature-rich traditional Cisco IOS XE routing stack on the Catalyst 8200 Series. IP routing, IPsec, QoS, firewall, NAT, Network-Based Application Recognition (NBAR), Flexible NetFlow (FNF), and many other features are part of Cisco IOS XE, a fully programmable software architecture with API support and a wide variety of protocols and configurations. With an integrated software image and a single binary file, you can now choose between Cisco IOS XE SD-WAN and Cisco IOS XE. And you can easily move from one to the other when you choose to do so.

## 5G-ready

The Catalyst 8200 Series Edge Platforms are built for future 5G networks. With the higher throughputs from Cat18 LTE and 5G, wireless WAN solutions are becoming feasible options for primary transport use cases. These platforms will support both integrated pluggable modules as well as external cellular gateways with Cat18 LTE and 5G capability for improved throughput that addresses those use cases. Either an integrated or external gateway can be chosen based on a specific branch's cellular coverage.

## Interface flexibility

### Switched and routed ports

The Catalyst 8200 Series continues Cisco's support for 4- and 8-port Layer 2 modules with PoE capability for a single-box solution, providing both switching and routing for a small branch.

### Voice modules

The Catalyst 8200 Series continues Cisco's support for a variety of voice modules for the different voice needs at the branch. Voice module examples include Foreign Exchange Station (FXS), Foreign Exchange Office (FXO), Digital Signal Processor (DSP), etc.

## Supported modules

**Table 4.** Modules supported

Product number	Description
<b>LAN modules</b>	
<b>NIM-ES2-4</b>	Cisco 4-port Gigabit Ethernet switch NIM
<b>NIM-ES2-8</b>	Cisco 8-port Gigabit Ethernet switch NIM
<b>NIM-ES2-8-P</b>	Cisco 8-port Gigabit Ethernet switch NIM with PoE support
<b>Voice modules</b>	
<b>NIM-2FXO</b>	2-port FXO NIM
<b>NIM-4FXO</b>	4-port FXO NIM
<b>NIM-2FXSP</b>	2-port FXS NIM
<b>NIM-4FXSP</b>	4-port FXS NIM
<b>NIM-2FXSP/4FXOP</b>	2-port FXS and 4-port FXO NIM
<b>NIM-4E/M</b>	4-port E/M NIM
<b>NIM-2BRI-NT/TE</b>	2-port BRI (NT and TE) NIM
<b>NIM-4BRI-NT/TE</b>	4-port BRI (NT and TE) NIM
<b>NIM-PVDM-32</b>	32-channel voice DSP NIM
<b>NIM-PVDM-64</b>	64-channel voice DSP NIM
<b>NIM-PVDM-128</b>	128-channel voice DSP NIM
<b>NIM-PVDM-256</b>	256-channel voice DSP NIM
<b>NIM-1MFT-T1/E1</b>	1-port multiflex trunk voice/clear-channel data T1/E1 module
<b>NIM-2MFT-T1/E1</b>	2-port multiflex trunk voice/clear-channel data T1/E1 module

Product number	Description
NIM-4MFT-T1/E1	4-port multiflex trunk voice/clear-channel data T1/E1 module
NIM-8MFT-T1/E1	8-port multiflex trunk voice/clear-channel data T1/E1 module
<b>DSL/broadband</b>	
NIM-VAB-A	Multi-mode VDSL2/ADSL/2/2+ NIM Annex A
NIM-VA-B	Multi-mode VDSL2/ADSL/2/2+ NIM Annex B
NIM-VAB-M	Multi-mode VDSL2/ADSL/2/2+ NIM Annex M
NIM-4SHDSL-EA	Multi-mode G.SHDSL NIM
<b>Channelized T1/E1 and ISDN PRI</b>	
NIM-1CE1T1-PRI	1-port Multiflex trunk voice/channelized data T1/E1 module
NIM-2CE1T1-PRI	2-port Multiflex trunk voice/channelized data T1/E1 module
NIM-8CE1T1-PRI	8-port Multiflex trunk voice/channelized data T1/E1 module
<b>ISDN BRI WAN interface</b>	
NIM-2BRI-S/T	2-port ISDN BRI WAN interface card for data
NIM-4BRI-S/T	4-port ISDN BRI WAN interface card for data
<b>Serial WAN interface</b>	
NIM-1T	1-port serial high-speed WAN interface card
NIM-2T	2-port serial high-speed WAN interface card
NIM-4T	4-port serial high-speed WAN interface card
<b>Async WAN interface</b>	
NIM-16A	16-port Asynchronous Module
NIM-24A	24-port Asynchronous Module
<b>Wireless WAN (LTE)</b>	
P-LTEAP18-GL	4G/CAT18 LTE Advanced Pro Pluggable - Global
P-LTEA-EA	4G/CAT6 LTE Advanced Pluggable for North American and Europe
P-LTEA-LA	4G/ CAT6 LTE Advanced Pluggable for APAC, ANZ, and LATAM
NIM-LTEA-EA	LTE Advanced for Europe and North America
NIM-LTEA-LA	LTE Advanced for Asia Pacific, Australia and LATAM

## Memory, storage, and accessory options

**Table 5.** Memory, storage, and accessory options

Product number	Description
<b>MEM-C8200-8GB</b>	Cisco C8200 Edge Platform - 8 GB Memory
<b>MEM-C8200-16GB</b>	Cisco C8200 Edge Platform - 16 GB Memory
<b>MEM-C8200-32GB</b>	Cisco C8200 Edge Platform - 32 GB Memory
<b>M2USB-16G</b>	Cisco C8000 Edge Platform - 16 GB M.2 USB SSD Storage
<b>M2USB-32G</b>	Cisco C8000 Edge Platform - 32 GB M.2 USB SSD Storage
<b>SSD-M2NVME-600G</b>	Cisco C8000 Edge Platform - 600 GB M.2 NVMe SSD Storage
<b>C8200-RM-19</b>	Cisco C8200 1RU Edge Platform - Rack Mount kit - 19"
<b>C8200-RM-23</b>	Cisco C8200 1RU Edge Platform - Rack Mount kit - 23"
<b>C8200-WM-1R</b>	Cisco C8200 1RU Edge Platform - Wall Mount Kit
<b>C8200-RFID-1R</b>	Cisco C8200 1RU Edge Platform - RFID
<b>C8200-NIM-BLANK</b>	Cisco C8200 NIM Blank
<b>C8200-PIM-BLANK</b>	Cisco C8200 PIM Blank

## Optics and transceivers modules

Find a full list of optics and transceivers [here](#).

## Power supplies

**Table 6.** Power supply specifications

Power supply feature	Default	PWR-CC1-150WAC optional external PSU for PoE
<b>Power maximum rating</b>	100W	150W For PoE only PoE budget: 150W
<b>Input-voltage range and frequency</b>	90 to 264 VAC 47 to 63 Hz	90 to 264 VAC 47 to 63 Hz
<b>Power supply efficiency</b>	85%	Avg 89%
<b>Input current</b>	1.5A max	2A max
<b>Output ratings</b>	12V 8.4A	54V 2.78A

Power supply feature	Default	PWR-CC1-150WAC optional external PSU for PoE
Output holdup time	20 ms	10 ms
Power supply input receptacles	IEC 320 C14	IEC 320 C14
Power cord rating	10A	10A

**Asset management:** The Catalyst 8200 Series Edge Platforms have an embedded RFID tag that holds the serial number and product ID for easy asset and inventory management using commercial RFID readers. The RFID tag is external and can be easily removed if needed or can be unselected at the time of ordering. It also features an extendable label tag providing the same information. A QR code on this tag makes asset management easy by simply scanning the label using a smartphone QR reader.

## Software requirements

Cisco DNA Software for the Catalyst 8200 Series offers comprehensive solutions for enterprise branch networks.

**Table 7.** Minimum software requirements

Platform product ID (PID)	Description	Minimum software requirement
C8200-1N-4T	Cisco Catalyst 8200 Series Edge Platform	Cisco IOS XE Software Release 17.4.1
C8200L-1N-4T	Cisco Catalyst 8200 Series Edge Platform	Cisco IOS XE Software Release 17.5.1

**Table 8.** ThousandEyes requirements

Feature	Requirements
Cisco ThousandEyes	ThousandEyes is natively integrated with eligible Catalyst 8200 Series Edge Platforms with a minimum 8 GB DRAM and 8 GB bootflash/storage. Additional memory and storage will be necessary for concurrently running the ThousandEyes agent with containerized SD-WAN security services.

**Table 9a.** Software features and protocols for autonomous mode

Feature	Description
<b>Protocols</b>	IPv4, IPv6, static routes, Routing Information Protocol Versions 1 and 2 (RIP and RIPv2), Open Shortest Path First (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP), Border Gateway Protocol (BGP), BGP Route Reflector, Intermediate System-to-Intermediate System (IS-IS), Multicast Internet Group Management Protocol Version 3 (IGMPv3), Protocol Independent Multicast Sparse Mode (PIM SM), PIM Source-Specific Multicast (SSM), Resource Reservation Protocol (RSVP), Cisco Discovery Protocol, Encapsulated Remote Switched Port Analyzer (ERSPAN), Cisco IOS IP Service-Level Agreements (IPSLA), Call Home, Cisco IOS Embedded Event Manager (EEM), Internet Key Exchange (IKE), ACLs, Ethernet Virtual Connections (EVC), Dynamic Host Configuration Protocol (DHCP), Frame Relay, DNS, Locator ID Separation Protocol (LISP), Hot Standby Router Protocol (HSRP), RADIUS, Authentication, Authorization, and Accounting (AAA), Application Visibility and Control (AVC), Distance Vector Multicast Routing Protocol (DVMRP), IPv4-to-IPv6 Multicast, Multiprotocol Label Switching (MPLS), Layer 2 and Layer 3 VPN, IPsec, Layer 2 Tunneling Protocol Version 3 (L2TPv3), Bidirectional Forwarding Detection (BFD), IEEE 802.1ag, and IEEE 802.3ah
<b>Encapsulations</b>	Generic Routing Encapsulation (GRE), Ethernet, 802.1q VLAN, Point-to-Point Protocol (PPP), Multilink Point-to-Point Protocol (MLPPP), Frame Relay, Multilink Frame Relay (MLFR) (FR.15 and FR.16), High-Level Data Link Control (HDLC), serial (RS-232, RS-449, X.21, V.35, and EIA-530), and PPP over Ethernet (PPPoE)
<b>Traffic management</b>	QoS, Class-Based Weighted Fair Queuing (CBWFQ), Weighted Random Early Detection (WRED), Hierarchical QoS, Policy-Based Routing (PBR), Performance Routing (PfR), and NBAR
<b>Cryptographic algorithms</b>	<p>Encryption: Data Encryption Standard (DES), 3DES, Advanced Encryption Standard (AES)-128 or AES-256 (in Cipher Block Chaining [CBC] and Galois/Counter Mode [GCM])</p> <p>Authentication: RSA (748/1024/2048 bit), ECDSA (256/384 bit)</p> <p>Integrity: MD5, SHA, SHA-256, SHA-384, SHA-512</p>
<b>Unified communications</b>	Call Admission Control (CAC), CUBE, Cisco Unified Communications Manager, dialer, ISDN, Interactive Voice Response (IVR), RADIUS, RFC 4040-based clear channel codec signaling with Session Initiation Protocol (SIP), Resource Reservation Protocol (RSVP), RTP Control Protocol (RTCP), Service Advertisement Framework (SAF), Session Border Controller (SBC), SIP for voice over IP (VoIP), SRST, Secure Real-Time Transport Protocol (SRTP), Voice over Frame Relay (FRF.11), VoIP, and voice modules

**Table 9b.** Software features and protocols for controller mode

Feature	Description
<b>Core features</b>	IPv4, IPv6, static routes, OSPF, EIGRP, BGP, Overlay Management Protocol (OMP), Application Aware Routing (AAR), Traffic Engineering, service insertion, zero trust, whitelisting, tamper-proof module, DTLS/TLS, IPsec, classification, prioritization, low latency queuing, remarking, shaping, scheduling, policing, mirroring, Multicast IPv4 support, service advertisement and insertion policy, Simple Network Management Protocol (SNMP), Network Time Protocol (NTP), DNS client, DHCP, DHCP client, DHCP server, DHCP relay archival, syslog, Secure Shell (SSH), Secure Copy (SCP), Cflowd v10 IPFIX export, IPv6 for transport side, Virtual Router Redundancy Protocol (VRRP), MPLS, NAT (DIA, service-side, overload/PAT, NAT64, etc.), NAT pools, split DNS, ACLs, BFD, NETCONF over SSH, CLI, NTP server support, BFD with service-side BGP, BGP community propagation to OMP, 6 SLA for AAR, Cisco TrustSec®/SD-Access (inline scalable group tag [SGT] propagation), custom app with Software-Defined AVC (SD-AVC), multicast AAR, dynamic on-demand tunnels, OSM, OSPFv3, route policies, multi-VRF support
<b>Encapsulations</b>	Generic Routing Encapsulation (GRE), Ethernet, 802.1q VLAN
<b>Application experience</b>	QoS, FEC, Class of Service (CoS) marking, Weighted Random Early Detection (WRED), Hierarchical QoS, PBR, NBAR, SD-AVC, per-tunnel QoS, Cloud OnRamp for SaaS, Enhanced Office 365 traffic steering, direct access, FNF
<b>Cryptographic algorithms</b>	Encryption: AES-256 (in CBC and GCM modes), Internet Key Exchange (IKE), Cisco Public Key Infrastructure (PKI) Authentication: AAA, RSA (2048 bit), ESP-256-CBC, HMAC-SHA1, ECDSA (256/384 bit) Integrity: SHA-1, SHA-2
<b>Security: C8200-1N-4T</b>	Built-in end-to-end segmentation (VPNs), zone-based firewall (ZBFW), PKI, Cisco DNA Layer Security, Snort® IPS/IDS, URL filtering, Secure Malware Defense, Secure Malware Analytics, Application-Level Gateway (ALG) for ZBFW, Secure Internet Gateway (SIG)
<b>Security: C8200L-1N-4T</b>	Built-in end-to-end segmentation (VPNs), ZBFW, PKI, Cisco DNA Layer Security, SIG
<b>Unified communications</b>	CUBE Connector, SRST, voice modules

## Licensing

The Catalyst 8200 Series Edge Platforms are offered only with a Cisco DNA Software subscription, Enterprise Agreement, and Managed Service Licensing Agreement (MSLA). For more details, refer to this [licensing guide](#).

Cisco DNA stack:

- Cisco DNA Essentials
- Cisco DNA Advantage
- Cisco DNA Premier

Network stack:

- Network Essentials
- Network Advantage

## Cisco ThousandEyes\*

A valid ThousandEyes agent license is required to activate the ThousandEyes agent. Existing ThousandEyes subscriptions can be leveraged on eligible Catalyst 8200 Series platforms. Additional ThousandEyes subscription information can be found [here](#).

\*Available in Release 17.6, targeted for Q3CY21.

## Product sustainability

Information about Cisco’s environmental, Social and Governance (ESG) initiatives and performance is provided in Cisco’s CSR and sustainability [reporting](#).

Sustainability Topic		Reference
General	Information on product-material-content laws and regulations	<a href="#">Materials</a>
	Information on electronic waste laws and regulations, including our products, batteries and packaging	<a href="#">WEEE Compliance</a>
	Sustainability Inquiries	Contact: <a href="mailto:csr_inquiries@cisco.com">csr_inquiries@cisco.com</a>
	Information on product takeback and resuse program	<a href="#">Cisco Takeback and Reuse Program</a>
	Operating and nonoperating conditions	<a href="#">Table 10. Mechanical specifications</a>
	Mean Time Between Failures (MTBF)	<a href="#">Table 10. Mechanical specifications</a>
	Safety and EMC (emissions, immunity and ETSI/EN)	<a href="#">Table 10. Mechanical specifications</a>
Power	Power Supply	<a href="#">Table 1. Product highlights</a>
		<a href="#">Table 6. Power supply specifications</a>
Material	Product packaging weight and materials	Contact: <a href="mailto:environment@cisco.com">environment@cisco.com</a>
	Dimensions and weight	<a href="#">Table 10. Mechanical specifications</a>

## Specifications

**Table 10.** Mechanical specifications

Description	Specification
Part number	C8200-1N-4T
Dimensions (H x W x D)	1.73 x 17.25 x 11.8 in. (4.39 x 43.81 x 29.97 cm)
Rack Units (RU)	1RU
Chassis weight	10 lb (4.54 kg)
Input voltage	AC: 90 to 264 VAC
Operating temperature	32° to 104° F

Description	Specification
	(0° to 40° C)
<b>Storage temperature</b>	-40° to 150° F (-40° to 70° C)
<b>Relative humidity operating and nonoperating noncondensing</b>	Ambient (noncondensing) operating: 5% to 85% Ambient (noncondensing) nonoperating and storage: 5% to 95%
<b>Altitude</b>	0 to 10,000 feet (0 to 3050 meters)
<b>Mean Time Between Failures (MTBF)</b>	692,577 hours

**Table 11.** Safety and compliance

Description	Specification
<b>Safety certifications</b>	UL 60950-1 CAN/CSA-C22.2 No. 60950-1 EN 60950-1 IEC 60950-1 AS/NZS 60950-1 IEC/EN 60825 Laser Safety FDA: Code of Federal Regulations Laser Safety
<b>EMC (emissions)</b>	47 CFR Part 15 Class A ICES 003 Class A AS/NZS CISPR 32 Class A CISPR 32 Class A EN55032 Class A VCCI-CISPR 32 Class A CNS-13438 Class A KN32 Class A IEC/EN 61000-3-2: Power Line Harmonics IEC/EN 61000-3-3: Voltage Fluctuations and Flicker

Description	Specification
<b>EMC (immunity)</b>	IEC/EN-61000-4-2: Electrostatic Discharge Immunity IEC/EN-61000-4-3: Radiated Immunity IEC/EN-61000-4-4: Electrical Fast Transient Immunity IEC/EN-61000-4-5: Surge AC, DC, and Signal Ports IEC/EN-61000-4-6: Immunity to Conducted Disturbances IEC/EN-61000-4-8: Power Frequency Magnetic Field Immunity IEC/EN-61000-4-11: Voltage DIPS, Short Interruptions, and Voltage Variations KN35
<b>EMC (ETSI/EN)</b>	EN300 386: Telecommunications Network Equipment (EMC) EN55032: Multimedia Equipment (Emissions) EN55024: Information Technology Equipment (Immunity) EN55035: Multimedia Equipment (Immunity) EN61000-6-1: Generic Immunity Standard

## Services

### Cisco Customer Experience support services for Catalyst 8000 platforms and Cisco DNA Software for SD-WAN and Routing

This section discusses the Cisco support services available for the Catalyst 8000 platforms and associated Cisco DNA Software for SD-WAN and Routing, as well as optional support service offers.

- **Catalyst 8000 platforms:** Cisco Solution Support is the default and recommended Cisco support service. However, Cisco Solution Support is not mandatory; it can be removed or replaced with another Cisco support service or partner service per the customer's preference.
- **Cisco DNA Software for SD-WAN and Routing:** Cisco Solution Support is the default Cisco support service. However, Cisco Solution Support is not mandatory; the customer may choose to use the Cisco Subscription Embedded Software Support included with the purchase of this software.

#### Note:

- When Solution Support is selected, it must be ordered on both the Catalyst 8000 platform and Cisco DNA Software for SD-WAN and Routing for complete customer entitlement to this premium support service.
- SD-WAN and Routing customers with Solution Support or Cisco Subscription Embedded Software Support are entitled to maintenance releases and software updates for **Cisco DNA SD-WAN and Routing software only**. Support for the Catalyst 8000 platform's OS and network stack, along with OS updates, is covered by the support contract on the Catalyst 8000 platform.

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**Cisco Solution Support is a premium support purpose-built for today's multiproduct, multivendor network environments and provides:**

- A primary point of contact, centralizing support across a solution deployment
- Solution, product, and interoperability expertise
- No requirement for customers to isolate their issue to a product to open a case
- 30-minute service response objective for Severity 1 and 2 cases
- Prioritized case handling over product support cases
- Product support team coordination (Cisco and Solution Support Alliance Partners)
- Accountability for multiproduct, multivendor issue management from first call to resolution, no matter where the issue resides

Learn more about Cisco Solution Support at [www.cisco.com/go/solutionsupport](http://www.cisco.com/go/solutionsupport)

**Cisco Subscription Embedded Software Support includes:**

- Access to support and troubleshooting via online tools and web case submission. Case severity or escalation guidelines are not applicable.
- Cisco Technical Assistance Center (TAC) access 24 hours per day, 7 days per week to assist by telephone, or web case submission and online tools with application software use and troubleshooting issues.
- Access to [www.cisco.com](http://www.cisco.com), providing helpful technical and general information on Cisco products, as well as access to Cisco's online Software Center library.

**Note:** No additional products or fees are required to receive embedded support for Cisco DNA Software for SD-WAN and Routing. However, if using embedded support for this software, hardware support for the Catalyst 8000 platforms must be purchased separately, as Cisco Subscription Embedded Software Support does not cover hardware. In this case, Cisco Smart Net Total Care<sup>®</sup> Service is recommended for the Catalyst 8000 platforms.

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## Ordering information

To place an order, visit the [Cisco Ordering Home Page](#). To download software, visit the [Cisco Software Center](#).

## For more information

For more information about the Cisco Catalyst 8200 Series Edge Platforms, visit <https://www.cisco.com/go/C8200> or contact your local Cisco account representative.

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