

Cisco Catalyst 8200L-1N-4T (C8200L-1N-4T)

Cisco Catalyst 8200L-1N-4T - Router 1GbE - rack-mountable



Cisco Catalyst 8200 Series Edge Platforms are 5G-ready, cloud edge platforms designed for SASE, multi-layer security and cloud-native agility to accelerate your journey to cloud. They deliver Cisco's secure, cloud-scale SD-WAN solution for the small branch. The Catalyst 8200 Series is purpose-built for performance and integrated SD-WAN Services along with flexibility to deliver security and networking services together from the cloud or on premises. The Catalyst 8200 Series Edge Platforms have a wide variety of interface options to choose from with backward compatibility to existing WAN, LAN and voice modules. Powered by Cisco IOS XE, fully programmable software architecture, and API support, these platforms can facilitate automation at scale to achieve zero-touch IT capability while migrating workloads to the cloud. Catalyst 8200 Series Edge Platforms also come with Trustworthy Solutions 2.0 infrastructure that secures the platforms against threats and vulnerabilities by an advanced integrity verification and remediation of threats.

Key Selling Points

- High-performance multicore processor supports high-speed WAN connections
- Dynamic core allocation architecture will repurpose unused cores into forwarding entities as per-user configuration
- Increases scalability for IPSec throughput requirements
- Provides four built-in Ethernet WAN ports

Product Features

- Robust security**
Equipped with a suite of encryption algorithms including 256-bit AES-GCM, Triple DES, and SHA-2, the Cisco Catalyst 8200L-1N-4T ensures robust security for all data transactions. Its comprehensive security features safeguard against a wide range of threats, making it an ideal choice for organizations prioritizing data protection.
- High performance**
With an IPv4 forwarding throughput of 3.8 Gbps and SD-WAN IPsec throughput of up to 500 Mbps, this router is designed to handle high-volume traffic efficiently. Its performance capabilities support a seamless and reliable network experience, even in demanding environments.
- Advanced networking**
Featuring support for a wide array of protocols and services including BGP, OSPF, and Quality of Service (QoS), the Cisco Catalyst 8200L-1N-4T facilitates sophisticated network architectures. Its ability to manage complex routing and networking tasks makes it a versatile backbone for any enterprise network.
- Scalable capacity**
With capacity for up to 1,500 SD-WAN overlay tunnels, 800,000 IPv4 routes, and 512,000 firewall sessions, this router is built to scale with your business. Its expansive capabilities ensure that growing network demands are met without the need for frequent hardware upgrades.
- Reliable design**
A Mean Time Between Failures (MTBF) of 692,577 hours underscores the reliability of the Cisco Catalyst 8200L-1N-4T. Its robust design and built-in redundancy features minimize downtime, ensuring continuous operation and peace of mind for businesses.

Main specifications

Product Description	Cisco Catalyst 8200L-1N-4T - router - rack-mountable
Device Type	Router
Enclosure Type	Rack-mountable - 1U
Data Link Protocol	Gigabit Ethernet
Performance	SD-WAN IPsec throughput (1400Bytes, clear text): 500 Mbps ¦ SD-WAN IPsec throughput (IMIX, clear text): 400 Mbps ¦ IPv4 forwarding throughput (1400-byte packet size): 3.8 Gbps ¦ IPsec throughput (1400Bytes, clear text): 500 Mbps
Capacity	SD-WAN overlay tunnels scale: 1500 ¦ IPsec SVTI tunnels: 1500 ¦ Access Control Entries (ACEs) per system (IPv4): 72000 ¦ IPv4 routes: 800000 ¦ IPv6 routes: 800000 ¦ Queues: 16000 ¦ NAT sessions: 600000 ¦ Firewall sessions: 512000 ¦ Virtual Routing and Forwarding (VRF) entries: 2000 ¦ ACLs per system: 4000
Network / Transport Protocol	IPSec, NTP, DNS, DHCP, RSVP, RTCP, PPPoE, L2TPv3
Routing Protocol	Policy-based routing (PBR), GRE, OSPF, BGP, VRRP, MPLS, OSPFv3, RIP, RIP-2, EIGRP, IS-IS, IGMPv3, HSRP, DVMRP, Bidirectional Forwarding Detection (BFD)
Remote Management Protocol	OMP, SNMP, SCP
VoIP Protocols	SRTP
Features	URL filtering, AAA, QoS, CoS, FEC, HQoS, WRED, FNF, NBAR, AAR, DTLS, DHCP client, DHCP server, Syslog support, NAT support, PAT support, ACL support, BFD, CAC, IVR, SAF, CBWFQ, HDLC, MLFR, MLPPP, PPP, PIM, SSM, ERSPAN, Cisco IPSLA, EEM, EVC, AVC, SUDI
Compliant Standards	IEEE 802.1Q, IEEE 802.1ag, IEEE 802.3ah
Power	AC 120/230 V (50/60 Hz)

Dimensions (WxDxH)	43.8 cm x 30 cm x 4.39 cm
Weight	4.54 kg
System Requirements	Cisco IOS XE 17.5.1

Extended specification

General

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Enclosure Type	Rack-mountable - 1U
Connectivity Technology	Wired
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Remote Management Protocol	OMP, SNMP, SCP
Encryption Algorithm	PKI, 256-bit AES-CBC, 256-bit AES-GCM, IKE, 2048-bit RSA, ECDSA 256-bit, ECDSA 384-bit, ESP, HMAC, SHA-1, SHA-2, TLS, DES, 1024-bit RSA, 128-bit AES, 256-bit SHA, 384-bit SHA, 512-bit SHA, 748-bit RSA, MD5, Triple DES
Authentication Method	Secure Shell (SSH), RADIUS
Features	URL filtering, AAA, QoS, CoS, FEC, HQoS, WRED, FNF, NBAR, AAR, DTLS, DHCP client, DHCP server, Syslog support, NAT support, PAT support, ACL support, BFD, CAC, IVR, SAF, CBWFQ, HDLC, MLFR, MLPPP, PPP, PIM, SSM, ERSPAN, Cisco IPSLA, EEM, EVC, AVC, SUDI
Compliant Standards	IEEE 802.1Q, IEEE 802.1ag, IEEE 802.3ah, UL 60950-1, CAN/CSA C22.2 No. 60950-1, EN 60950-1, IEC 60950-1, AS/NZS 60950-1, IEC/EN 60825, FDA, FCC CFR47 Part 15 A, ICES-003 Class A, AS/NZS CISPR 32 Class A, CISPR 32 Class A, VCCI-CISPR 32:2016 Class A, CNS 13438 Class A, EN 61000-3-2, IEC 61000-3-2, KN32 Class A, IEC/EN 61000-3-3, EN 300 386, EN 55032, EN 55035, EN 61000-6-1, EN55024, IEC/EN 61000-4-11, IEC/EN 61000-4-2, IEC/EN 61000-4-3, IEC/EN 61000-4-4, IEC/EN 61000-4-5, IEC/EN 61000-4-6, IEC/EN 61000-4-8, KN35, SIG
Processor	Intel
RAM	4 GB (installed) / 32 GB (max)
Flash Memory	8 GB
Built-in Devices	16 GB SSD

Expansion / Connectivity

Interfaces	WAN: 2 x Ethernet 1000 - SFP (mini-GBIC) ¦ WAN: 2 x Ethernet 1000 - RJ-45
Expansion Slots	1 (total) / 1 (free) x NIM ¦ 1 (total) / 1 (free) x Pluggable Interface Module (PIM)
Installed Modules Qty (Max)	0 (installed) / 2 (max)

Miscellaneous

MTBF	692,577 hours
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Power

Power Device	Internal power supply - 100 watt
Installed Qty	1 (max)
Voltage Required	AC 120/230 V (50/60 Hz)

Software / System Requirements

OS Required	Cisco IOS XE 17.5.1
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Environmental Parameters

<i>Min Operating Temperature</i>	<i>0 °C</i>
<i>Max Operating Temperature</i>	<i>40 °C</i>
<i>Humidity Range Operating</i>	<i>5 - 85% (non-condensing)</i>

Dimensions & Weight

<i>Width</i>	<i>43.8 cm</i>
<i>Depth</i>	<i>30 cm</i>
<i>Height</i>	<i>4.39 cm</i>
<i>Weight</i>	<i>4.54 kg</i>

IP Telephony

<i>VoIP Protocols</i>	<i>SRTP</i>
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