Cisco C8200L-1N-4T

Datasheet

Product Overview

- The Cisco Catalyst C8200L-1N-4T is a compact 1RU edge router for small branches that need secure, cloud-managed WAN connectivity.
- It provides four integrated 1 Gigabit Ethernet WAN ports, with two SFP interfaces and two RJ45 interfaces for fiber or copper access.
- Its 4-core CPU and 4 GB default DRAM are designed for cost-effective branch routing and SASE-oriented deployments.
- The platform includes one NIM slot and one PIM slot for additional WAN, LAN, voice, broadband, and wireless interfaces.
- Cisco IOS XE supports Catalyst SD-WAN, autonomous routing, programmable APIs, and centralized lifecycle operations.
- Its hardware-accelerated IPsec engine delivers up to 500 Mbps for 1400-byte traffic while Cisco Secure Internet Gateway options support cloud-based branch security.

Product Highlights

- **Four Integrated Gigabit WAN Ports:** Provides two SFP and two RJ45 1 Gigabit Ethernet WAN ports for flexible fiber or copper branch connectivity.
- **1RU Modular Branch Platform:** Combines a compact 1RU chassis with one NIM slot and one PIM slot for expansion.
- **500 Mbps IPsec Performance:** Delivers up to 500 Mbps SD-WAN IPsec throughput with 1400-byte packets and supports up to 1,500 overlay tunnels.
- **SASE-Oriented Security:** Supports cloud-based security services including Cisco Secure Internet Gateway, with core VPN, firewall, PKI, and Cisco DNA Layer Security capabilities.
- **Programmable Cisco IOS XE:** Supports Cisco IOS XE SD-WAN or autonomous mode, programmable APIs, and a broad routing and security feature set for branch automation.
- **Memory and Storage Options:** Ships with 4 GB DRAM and no default M.2 storage, with options for 8 GB, 16 GB, or 32 GB DRAM and higher-capacity M.2 storage.
- **Flexible Branch Modules:** Supports NIM and PIM options for Ethernet, LAN switching, voice, serial, DSL, wireless WAN, and other branch interfaces.
- **Centralized Branch Operations:** Can be managed through Cisco Catalyst SD-WAN Manager or Cisco DNA Center, supporting secure onboarding, monitoring, and software lifecycle workflows.

Detailed Features



C8200L-1N-4T

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Component	Specification
Platform	Cisco Catalyst 8200 Series Edge Platform
Form Factor	1RU
WAN Interfaces	4 × 1 Gigabit Ethernet WAN ports (2 SFP + 2 RJ45)

Component	Specification
Expansion Slots	1 × NIM slot, 1 × PIM slot
Default Memory and Storage	4 GB DRAM, no default M.2 storage

4-Core Branch Processing

The C8200L-1N-4T uses a 4-core CPU with 4 GB default DRAM. Its resource profile is designed for small-branch routing and cloud-managed security deployments where a lower throughput tier is appropriate.

Flexible Fiber and Copper WAN Access

Four integrated Gigabit Ethernet WAN ports combine two SFP interfaces with two RJ45 interfaces. This supports fiber, copper, or mixed WAN access in a compact branch platform.

Modular Expansion for Branch Services

One NIM slot and one PIM slot support Cisco modules for Layer 3 Ethernet, LAN and LANWAN switching, voice, serial, DSL, and LTE or 5G wireless WAN connectivity.

SD-WAN and IPsec Acceleration

The platform delivers up to 500 Mbps SD-WAN IPsec throughput with 1400-byte packets and up to 400 Mbps with IMIX traffic. It supports up to 1,500 SD-WAN overlay tunnels.

Cloud-Based Security Model

Cisco positions the C8200L-1N-4T for small branches with SASE-compliant, cloud-based security requirements. Unlike the C8200-1N-4T, Cisco documents that the C8200L does not support embedded, containerized security features.

Routing and Session Scale

With default 4 GB DRAM, the platform supports up to 800,000 IPv4 routes, 800,000 IPv6 routes, and 600,000 NAT sessions. The documented route and NAT scale can increase with 32 GB DRAM.

Programmable IOS XE Architecture

Cisco IOS XE supports IPv4 and IPv6 routing, OSPF, EIGRP, BGP, MPLS, IPsec, NAT, QoS, NBAR, Flexible NetFlow, NETCONF over SSH, and programmable APIs.

Storage, Power, and Deployment Options

The router includes onboard 8 GB flash and an internal fixed AC power supply. Cisco documents optional 16 GB, 32 GB USB, and 600 GB NVMe M.2 storage, plus rack-mount, wall-mount, and external PoE power options.

Technical Specifications

Product Specifications

Feature	Value
Product Series	Cisco Catalyst 8200 Series Edge Platforms
Product Model	C8200L-1N-4T
Platform Type	Modular SD-WAN and SD-Routing edge router
Form Factor	1RU
Integrated WAN Ports	4 × 1 Gigabit Ethernet WAN ports
WAN Port Types	2 × SFP and 2 × RJ45
Expansion Slots	1 × NIM slot; 1 × PIM slot
CPU	4-core CPU
DRAM	4 GB default; up to 8 GB, 16 GB, or 32 GB options
Onboard Flash	8 GB, not upgradeable
M.2 Storage	No default storage; 16 GB, 32 GB USB, or 600 GB NVMe options
SD-WAN IPsec Throughput (1400 Bytes)	Up to 500 Mbps
SD-WAN IPsec Throughput with IQDF (1400 Bytes)	Up to 460 Mbps
SD-WAN IPsec Throughput (IMIX)	400 Mbps

Feature	Value
SD-WAN IPsec Throughput with IQDF (IMIX)	300 Mbps
SD-WAN Overlay Tunnels	1,500
IPv4 Forwarding Throughput (1400 Bytes)	Up to 3.8 Gbps
Autonomous IPsec Throughput (1400 Bytes)	Up to 500 Mbps
Autonomous IPsec Throughput (IMIX)	400 Mbps
IPsec SVTI Tunnels	1,500
ACLs per System	4,000
IPv4 ACEs per System	72K
IPv4 Routes	800K with default 4 GB; up to 4M with 32 GB
IPv6 Routes	800K with default 4 GB; up to 4M with 32 GB
NAT Sessions	600K with default 4 GB; up to 2M with 32 GB
Firewall Sessions	512K
VRFs	4,000
Queues	8K
Security Features	VPN segmentation, zone-based firewall, PKI, Cisco DNA Layer Security, and Secure Internet Gateway
Minimum Software	Cisco IOS XE Software Release 17.5.1
Default Power Supply	Internal fixed AC power supply
Power Maximum Rating	100W
Input Voltage and Frequency	90 to 264 VAC; 47 to 63 Hz
Power Efficiency	85%
Input Current	1.5A maximum
Output Rating	12V, 8.4A
Dimensions (H × W × D)	1.73 × 17.25 × 11.8 in. (4.39 × 43.81 × 29.97 cm)
Chassis Weight	10 lb (4.54 kg)
Operating Temperature	32° to 104°F (0° to 40°C)
Storage Temperature	-40° to 150°F (-40° to 70°C)
Operating Humidity	5% to 85%, noncondensing
Storage Humidity	5% to 95%, noncondensing
Altitude	0 to 10,000 ft (0 to 3050 m)
MTBF	692,577 hours

Product Comparison

Feature	C8200L-1N-4T	C8200-1N-4T	C8300-1N1S-6T
Platform class	C8200 small branch edge	C8200 small/midsize branch edge	C8300 medium/large branch edge
Form factor	1RU	1RU	1RU
Integrated WAN ports	4 × 1GbE (2 SFP + 2 RJ45)	4 × 1GbE (2 SFP + 2 RJ45)	6 × 1GbE Layer 3 ports
Expansion slots	1 NIM, 1 PIM	1 NIM, 1 PIM	1 SM, 1 NIM, 1 PIM
CPU and default DRAM	4-core CPU, 4 GB	8-core CPU, 8 GB	8-core CPU, 8 GB
Default M.2 storage	No default M.2 storage	16 GB	16 GB
SD-WAN IPsec throughput (1400 bytes)	Up to 500 Mbps	Up to 1 Gbps	Up to 2 Gbps
SD-WAN overlay tunnels	1,500	2,500	6,000
Embedded security model	Cloud-based security; no embedded containerized security features	NGFW, IPS/IDS, AMP, URL filtering, Secure Internet Gateway	NGFW, IPS/IDS, AMP, URL filtering, Secure Internet Gateway
Power design	Internal fixed AC PSU; optional external PSU for PoE NIMs	Internal fixed AC PSU; optional external PSU for PoE NIMs	Dual power supplies by default

Accessories

Category	Accessories
Included Accessories	- Internal fixed AC power supply (default)
- 4 GB DRAM (default configuration)	
Optional Accessories	- MEM-C8200-8GB, MEM-C8200-16GB, or MEM-C8200-32GB DRAM upgrade
- M2USB-16G, M2USB-32G, or SSD-M2SED-600G storage	
- C8200-RM-19, C8200-RM-23, or C8200-WM-1R mounting kit	
- PWR-CC1-150WAC external PSU for PoE-enabled NIM deployments	

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[2] Cisco. (2026). Cisco Catalyst 8200 Series Edge Platforms. https://www.cisco.com/site/us/en/products/networking/sdwan-routers/catalyst-8200-series-platforms/index.html