Cisco C8200-1N-4T

Datasheet

Product Overview

- The Cisco Catalyst C8200-1N-4T is a 1RU modular edge router for small and midsize branches that need secure, high-throughput WAN connectivity.
- With four integrated 1 Gigabit Ethernet WAN ports, it combines two SFP interfaces and two RJ45 interfaces for fiber or copper access.
- Its 8-core CPU, 8 GB default DRAM, and 16 GB M.2 storage provide a solid platform for branch routing and SD-WAN services.
- The platform supports one NIM slot and one PIM slot for additional WAN, LAN, voice, broadband, and wireless connectivity options.
- Cisco IOS XE provides programmable APIs and supports both Catalyst SD-WAN and autonomous routing deployments.
- Integrated IPsec acceleration, security services, and centralized management help branch teams protect traffic and simplify lifecycle operations.

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.
- **1 Gbps IPsec Performance:** Delivers up to 1 Gbps SD-WAN IPsec throughput with 1400-byte packets and supports up to 2,500 overlay tunnels.
- **Integrated Security and SD-WAN:** Supports Cisco Catalyst SD-WAN, IPsec, NGFW, IPS/IDS, URL filtering, AMP, and Cisco Umbrella SIG options.
- **Programmable Cisco IOS XE:** Supports Cisco IOS XE SD-WAN or autonomous mode, programmable APIs, NETCONF over SSH, and a broad routing and security feature set.
- **Memory and Storage Expansion:** Ships with 8 GB DRAM and 16 GB M.2 storage, with options for 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 zero-touch onboarding, monitoring, and software lifecycle workflows.

Detailed Features



C8200-1N-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	8 GB DRAM, 16 GB M.2 storage

8-Core Processing Platform

The C8200-1N-4T uses an 8-core CPU architecture with dynamic core allocation. Administrators can prioritize service-plane resources for containerized applications or shift resources toward the data plane when forwarding performance is the main requirement.

Flexible Fiber and Copper WAN Access

Four integrated Gigabit Ethernet WAN ports combine two SFP interfaces with two RJ45 interfaces. This lets branch deployments use fiber, copper, or a mixed WAN design without adding a base interface module.

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 1 Gbps SD-WAN IPsec throughput with 1400-byte packets and up to 900 Mbps with IMIX traffic. It supports up to 2,500 SD-WAN overlay tunnels for branch scale.

Security at the Edge

Cisco documents integrated security capabilities including zone-based firewall, VPN segmentation, PKI, Snort IPS/IDS, URL filtering, Secure Malware Defense, Secure Malware Analytics, and Secure Internet Gateway options for the C8200-1N-4T.

Large Routing and Session Scale

With the default 8 GB DRAM configuration, the platform supports up to 1.6 million IPv4 routes, 1.5 million IPv6 routes, 1.2 million NAT sessions, and 512,000 firewall 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. The same platform can run Catalyst SD-WAN or autonomous routing software.

Storage, Power, and Deployment Options

The router includes onboard 8 GB flash, default 16 GB M.2 storage, and a fixed AC power supply. Cisco also documents 32 GB and 600 GB M.2 options, rack-mount and wall-mount kits, and an external PoE power supply for PoE-enabled NIM deployments.

Technical Specifications

Product Specifications

Feature	Value
Product Series	Cisco Catalyst 8200 Series Edge Platforms
Product Model	C8200-1N-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	8-core CPU
DRAM	8 GB default; up to 16 GB or 32 GB options
Onboard Flash	8 GB, not upgradeable
M.2 Storage	16 GB default; 32 GB USB or 600 GB NVMe options
SD-WAN IPsec Throughput (1400 Bytes)	Up to 1 Gbps

Feature	Value
SD-WAN IPsec Throughput with IQDF (1400 Bytes)	Up to 1 Gbps
SD-WAN IPsec Throughput (IMIX)	900 Mbps
SD-WAN IPsec Throughput with IQDF (IMIX)	850 Mbps
SD-WAN Overlay Tunnels	2,500
Multi-Layer Security Performance	950 Mbps with 50% IQDF + 50% DIA with NAT, NGFW, IPS, URLF, and AMP; 980 Mbps DIA with NAT, NGFW, IPS, URLF, and AMP
IPv4 Forwarding Throughput (1400 Bytes)	Up to 3.8 Gbps
Autonomous IPsec Throughput (1400 Bytes)	Up to 1 Gbps
Autonomous IPsec Throughput (IMIX)	900 Mbps
IPsec SVTI Tunnels	2,500
ACLs per System	4,000
IPv4 ACEs per System	72K
IPv4 Routes	1.6M with default 8 GB; up to 4M with 32 GB
IPv6 Routes	1.5M with default 8 GB; up to 4M with 32 GB
NAT Sessions	1.2M with default 8 GB; up to 2M with 32 GB
Firewall Sessions	512K
VRFs	4,000
Queues	8K
Security Features	VPN segmentation, zone-based firewall, PKI, Snort IPS/IDS, URL filtering, Secure Malware Defense, Secure Malware Analytics, and Secure Internet Gateway
Minimum Software	Cisco IOS XE Software Release 17.4.1
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)

Feature	Value
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	C8200-1N-4T	C8200L-1N-4T	C8300-1N1S-6T
Platform class	C8200 small/midsize branch edge	C8200 small 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	8-core CPU, 8 GB	4-core CPU, 4 GB	8-core CPU, 8 GB
Default M.2 storage	16 GB	No default M.2 storage	16 GB
SD-WAN IPsec throughput (1400 bytes)	Up to 1 Gbps	Up to 500 Mbps	Up to 2 Gbps
SD-WAN overlay tunnels	2,500	1,500	6,000
Integrated security	NGFW, IPS/IDS, AMP, URL filtering, Secure Internet Gateway	Secure Internet Gateway and core security features	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)
- 8 GB DRAM and 16 GB M.2 storage (default configuration)	
Optional Accessories	- MEM-C8200-16GB or MEM-C8200-32GB DRAM upgrade
- 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