

PRODUCT OVERVIEW

The **Cisco Catalyst C8200-1N-4T** is a high-performance 1RU cloud-edge router designed for medium-sized branch offices. Compared to the 'L' (Lite) version, it delivers higher processing power, increased IPsec VPN throughput, advanced security services, and expandable RAM/Storage options for enterprise SD-WAN deployments.

SYSTEM & HARDWARE SPECIFICATIONS

Specification	Details / Value
Form Factor	1 Rack Unit (1RU) Rack-Mountable
Fixed WAN/LAN Ports	4 x 1G RJ-45 Gigabit Ethernet Ports
NIM Slots	1 Network Interface Module (NIM) Slot
PIM Slots	1 Pluggable Interface Module (PIM) Slot (for 4G LTE/5G Cellular)
IPsec VPN Throughput	Up to 1 Gbps (Hardware Accelerated)
SD-WAN Throughput	Up to 3.8 Gbps Aggregate Throughput
System Memory (RAM)	16 GB DRAM (Default, expandable to 32 GB / 64 GB)
Storage	16 GB eMMC (Supports M.2 NVMe SSD expansion)

Interfaces & Expansion

- **WAN Interfaces:** 4x 1G RJ-45 Copper
- **NIM Slot:** Supports T1/E1, Serial, DSL, Ethernet NIMs
- **PIM Slot:** Supports 4G LTE & 5G Cellular modules
- **Console Ports:** 1x RJ-45, 1x Micro-USB Console
- **USB Expansion:** 1x USB 3.0 Port

Power & Security Features

- **Power Supply:** Internal AC Power Supply (DC option available)
- **Power Usage:** Typical ~45W, Max ~90W
- **Hardware Security:** Cisco Trust Anchor Module (TAM)
- **Container Support:** Cisco Application Hosting (Docker/LXC)

SOFTWARE ARCHITECTURE & OPERATING MODES

Operating System	Cisco IOS XE / Cisco IOS XE SD-WAN
Deployment Modes	Autonomous Mode (Traditional IOS XE) / Controller Mode (Catalyst SD-WAN)
Advanced Security	Zone-Based Firewall, Snort IPS, URL Filtering, Advanced Malware Protection (AMP)
Management & Analytics	Catalyst SD-WAN Manager (vManage), ThousandEyes Agent Hosting, REST APIs