



C8300-1N1S-4T2X DataSheet

Cisco C8300-1N1S-4T2X router, 2x 10G SFP+, 4x 1G RJ45, 1RU, modular SD-WAN/IPsec edge platform, dual power, SM/NIM/PIM slots, high tunnel scale for secure branch/cloud edge.

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C8300-1N1S-4T2X Description



C8300-1N1S-4T2X is a high-performance Cisco Catalyst 8300 Series 1RU modular edge platform designed for modern SD-WAN, cloud edge, and secure branch networking. Equipped with 2 × 10G SFP+ and 4 × 1G RJ45 ports, this model delivers up to 17Gbps SD-WAN IPsec throughput and supports up to 6000 SD-WAN tunnels—ideal for large branches and managed service providers. The C8300-1N1S-4T2X supports dual hot-swappable power, expansion via SM/NIM/PIM slots, and advanced security features, making it the top choice for scalable, resilient, and cloud-ready enterprise WAN solutions.

Product Highlights

10G Ports

Gigabit Ethernet ports

SD-WAN IPsec Throughput(IMIX)

Product Comparison

Parameter	C8300-1N1S-4T2X	C8300-2N2S-4T2X	C8200-1N-4T
Form Factor	1RU	2RU	1RU

10G Ports	2 x SFP+	2 x SFP+	None
1G Ports	4 x RJ45	4 x RJ45	2 x SFP, 2 x RJ45
SM Slots	1	2	None
NIM Slots	1	2	1
PIM Slot	1	1	1
Default DRAM	8 GB	8 GB	8 GB
Max DRAM	32 GB	32 GB	32 GB
Default Storage	16 GB M.2	16 GB M.2	16 GB M.2
Max SD-WAN IPsec Throughput	Up to 17Gbps (1400B)	Up to 18.8Gbps (1400B)	Up to 1Gbps
SD-WAN IPsec Throughput (IMIX)	6.3Gbps	7.6Gbps	900Mbps
SD-WAN Tunnels	6000	6000	2500
Power Supplies	Dual, hot swap AC/DC	Dual, hot swap AC/DC	Internal (fixed)
Dimensions (HxWxD)	1RU	2RU	1RU

Specification

Parameter	Specification	Parameter	Specification
Form Factor	1RU rack-mount	Chassis Type	Modular Edge Router
Embedded 10G Ports	2 x SFP+	Embedded 1G Ports	4 x RJ45 (Layer 3)
Service Module (SM) Slot	1	Network Interface Module (NIM) Slot	1
Pluggable Interface Module (PIM) Slot	1	Default DRAM	8 GB DDR4 (up to 32 GB)
Default Storage	16 GB M.2 (up to 2 TB NVMe)	Onboard Flash	8 GB (not upgradable)
CPU Cores	8-core	Dual Power Supplies	Yes (hot-swappable AC/DC)

Parameter	Specification	Parameter	Specification
SD-WAN IPsec Throughput (1400B)	Up to 17Gbps	SD-WAN IPsec Throughput (IMIX)	6.3Gbps
SD-WAN Overlay Tunnels	6000	Max Firewall Sessions	512,000
Max NAT Sessions	1.2M (8GB), 2M (32GB)	Max VRF Instances	4000
Max ACLs per System	4000	Max IPv4 ACEs	72,000
Max IPv4 Routes	1.6M (8GB), 4M (32GB)	Max IPv6 Routes	1.5M (8GB), 4M (32GB)
Operating Temperature	0°C to 40°C	Operating Humidity	10% to 90% (non-condensing)
Altitude (Operating)	Up to 10,000 ft (40°C)	Altitude (Non-Operating)	Up to 60,000 ft
Fans	Internal, field replaceable	Redundancy	Dual power, hot swap
Module Support	SM, NIM, PIM, UCS-E compute, 5G/LTE	Switch Module Options	22/50-port L2 SM, 4/8-port NIM
Voice Module Support	FXS, FXO, DSP, ISDN, CUBE	LTE/5G Support	Integrated PIM, external GW
Management Ports	RJ45 Console, Micro-USB Console, USB 3.0 (A/C)	Compliance	UL, FCC, CE, NEBS (option)
Security Features	NGFW, IPS/IDS, URLF, AMP, SASE, MACsec	Programmability	IOS XE, API, SD-WAN Manager
Physical Dimensions	See datasheet	Weight	Depends on config
Rack Mounting Options	19"/23" kits	Asset Management	External RFID, QR code label

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