C8300-2N2S-6T DataSheet

Cisco C8300-2N2S-6T router, 6x 1G RJ45, 2RU, modular SD-WAN/IPsec edge platform, dual SM/NIM slots, high tunnel scale, ideal for secure branch and cloud edge.

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C8300-2N2S-6T Description

C8300-2N2S-6T is a Cisco Catalyst 8300 Series 2RU modular edge platform, purpose-built for enterprise SD-WAN, secure branch, and cloud edge scenarios. With 6 x 1G RJ45 WAN/LAN ports, dual Service Module and Network Interface Module slots, and high SD-WAN tunnel capacity (6000 tunnels), the C8300-2N2S-6T offers flexibility and scalable connectivity for large branches and managed service providers. Powered by Cisco IOS XE and supporting advanced security, dual hot-swappable power supplies, and rich expansion modules, it enables reliable, high-uptime networking for digital transformation, SASE, and multi-cloud migration use cases.

Product Highlights

IPsec Throughput(IMIX)

Gigabit Ethernet ports

SD-WAN IPsec Throughput(IMIX)

Product Comparison

Parameter	C8300-2N2S-6T	C8300-2N2S-4T2X	C8200-1N-4T

Form Factor	2RU	2RU	1RU
10G Ports	None	2 x SFP+	None
1G Ports	6 x RJ45	4 x RJ45	2 x SFP, 2 x RJ45
SM Slots	2	2	None
NIM Slots	2	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 2Gbps (1400B)	Up to 18.8Gbps (1400B)	Up to 1Gbps
SD-WAN IPsec Throughput (IMIX)	1.8Gbps	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)	2RU	2RU	1RU

Specification

Parameter	Specification	Parameter	Specification
Form Factor	2RU rack-mount	**Chassis Type**	Modular Edge Router
WAN/LAN Ports	6 x 1G RJ45 (Layer 3)	**10G Ports**	None
Service Module (SM) Slots	2	**Network Interface Module (NIM) Slots**	2
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)

Parameter	Specification	Parameter	Specification
CPU Cores	12-core	Dual Power Supplies	Yes (hot-swappable AC/DC)
SD-WAN IPsec Throughput (1400B)	Up to 2Gbps	SD-WAN IPsec Throughput (IMIX)	1.8Gbps
SD-WAN IPsec with IQDF (IMIX)	1.7Gbps	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)
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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