

CISCO CATALYST 8300 SERIES EDGE PLATFORMS

C8300-2N2S-6T

2x1G SFP + 4x1G RJ45 WAN · 2 SM + 2 NIM + 1 PIM Slots · Edge Router

New, factory-sealed · 3-year LSCare warranty · Ships from Hong Kong and US stock



Product Model	C8300-2N2S-6T
Category	Cisco Catalyst 8300 Series Edge Platforms
Condition	New, factory-sealed
Warranty	3-year LSCare warranty
Supplier	Layer23-Switch · www.layer23-switch.com



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The C8300-2N2S-6T is a Cisco Catalyst 8300 Series Edge Platform 2RU router for branch WAN edges on 1G circuits that need room for two service modules. The router pairs two 1G SFP and four 1G RJ-45 ports with two SM, two NIM and one PIM slot, 8 GB of DRAM, and SD-WAN IPsec of up to 2 Gbps, or 1.8 Gbps on IMIX traffic, across 6,000 overlay tunnels.

New, factory-sealed · [3-year LSCare warranty](#) · [14-day returns](#) · [Cisco SN check before shipment](#)

Specifications

Product ID	C8300-2N2S-6T	Rack units	2RU
1G port density	6: 4 x 1G RJ-45 (GE 0/0/0-0/0/3) and 2 x 1G SFP (GE 0/0/4-0/0/5)	SM slots	2, single- or double-wide modules
NIM slots	2; up to 6 NIMs with SM-slot NIM carriers	PIM slots	1, for LTE and 5G pluggable modules
Console port	RJ-45 and micro-USB	USB port	USB 3.0 Type-A (USB 0) and USB 3.0 Type-C (USB 1)
CPU	8-core; data plane hyperthreading supported	DRAM	8 GB (MEM-C8300-8GB)
DRAM upgrade options	16 GB or 32 GB, single DIMM	Flash	8 GB, not upgradeable
Storage (M.2 SSD) default	16 GB M.2 USB (M2USB-16G)	M.2 storage options	32 GB M.2 USB; 600 GB or 2 TB M.2 NVMe
Core allocation	Service-oriented (default, container applications supported) or data plane heavy (no container resources)	EMC (ETSI/EN)	EN300 386; EN55032; EN55024; EN55035; EN61000-6-1
SD-WAN IPsec throughput (1400 bytes)	Up to 2 Gbps	SD-WAN IPsec throughput with IQDF (1400 bytes)	Up to 2 Gbps
SD-WAN IPsec throughput (IMIX)	1.8 Gbps	SD-WAN IPsec throughput with IQDF (IMIX)	1.7 Gbps
SD-WAN overlay tunnels scale	6,000	50% IQDF + 50% DIA w. NAT + NGFW + IPS + URLF + AMP	2.8 Gbps (IOS XE 17.12.2, firewall EMIX profile)
DIA w. NAT + NGFW + IPS + URLF + AMP	2.3 Gbps (IOS XE 17.12.2, firewall EMIX profile)	IPv4 forwarding throughput (1400 bytes)	Up to 19.7 Gbps
IPsec throughput (1400 bytes)	Up to 1.9 Gbps	IPsec throughput (IMIX)	1.9 Gbps
Number of IPsec SVTI tunnels	4,000	Number of ACLs per system	4,000
Number of IPv4 ACEs per system	72K	Number of IPv4 routes	1.6M with default 8 GB; up to 4M with 32 GB

Number of IPv6 routes	1.5M with default 8 GB; up to 4M with 32 GB	Number of queues	8K
Number of NAT sessions	1.2M with default 8 GB; up to 2M with 32 GB	Number of firewall sessions	512K
Number of VRFs	4,000	Software modes	Autonomous (Cisco IOS XE) or controller (Catalyst SD-WAN) from one image
Encryption algorithms (autonomous mode)	DES, 3DES, AES-128 or AES-256 in CBC and GCM modes	Minimum software release	Cisco IOS XE 17.3.2
License tiers	Catalyst Routing Essentials, Cisco DNA Essentials or Cisco DNA Advantage; one is required with the chassis	Default power supplies	2 x PWR-CC1-650WAC 650W AC, field replaceable
Power supply options	PWR-CC1-1000WAC 1000W AC PoE; PWR-CC1-650WDC 650W DC; PWR-CC1-650WDCR 650W DC reverse airflow (NEBS)	PoE budget	500W with PWR-CC1-1000WAC; none on PWR-CC1-650WAC
Power supply efficiency	80 Plus Gold (all 2RU supplies)	Input voltage	AC: 85 to 264 VAC; DC: -40 to 72V, 48V nominal
Typical power, no modules, single PSU	89W	Fan modules	C8300-FAN-2R, field replaceable; C8300-FAN-2R-R reverse airflow for NEBS
NEBS	Compliant with PWR-CC1-650WDCR supplies and C8300-FAN-2R-R	Operating temperature	0°C to 40°C (32°F to 104°F)
Storage temperature	-40°C to 70°C (-40°F to 150°F)	Relative humidity	5 to 85% operating; 5 to 95% nonoperating, noncondensing
Operating altitude	0 to 10,000 ft (0 to 3050 m)	Sound pressure (typical/maximum)	59/73 dBA non-NEBS; 63/75 dBA NEBS
Sound power (typical/maximum)	74/87 dBA non-NEBS; 77/89 dBA NEBS	Dimensions (H x W x D)	3.5 x 17.25 x 18.52 in.
Weight	40 lb with 2 AC power supplies and fan tray	Mounting	Rack mount only; 19-inch kit included, 23-inch and 4-post kits optional
MTBF	710,300 hours	Safety certifications	UL 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1; IEC 60950-1; AS/NZS 60950-1; IEC/EN 60825 laser safety; FDA CFR laser safety
EMC (emissions)	47 CFR Part 15 Class A; ICES 003 Class A; AS/NZS CISPR 32 Class A; CISPR 32 Class A; EN55032 Class A; VCCI-CISPR 32 Class A; CNS-13438 Class A; KN32 Class A; IEC/EN 61000-3-2; IEC/EN 61000-3-3	EMC (immunity)	IEC/EN 61000-4-2, 61000-4-3, 61000-4-4, 61000-4-5, 61000-4-6, 61000-4-8, 61000-4-11; KN35

Optional Add-ons

Add-on	Cisco PID	Purpose
Network Module	C-NIM-1X	1x1G/10G SFP+ WAN Port - 256-bit MACsec - Catalyst 8300 Network Interface Module
Network Module	C-NIM-2T	2x100M/1G RJ45/SFP - Catalyst 8200/8300 WAN NIM - MACsec
Network Module	C-NIM-1M	1x2.5G RJ-45 WAN - UPOE+ 90W - Catalyst 8000
Network Module	C-NIM-8M	8x2.5G RJ-45 mGig - Four 90W UPOE+ Ports - Catalyst 8000

Network Module	C-NIM-8T	8x 10M/100M/1G RJ-45 Ports - LAN/WAN Network Module With MACsec - Catalyst 8000
Network Module	C-NIM-4X	4x1G/10G SFP/SFP+ Ports - LAN/WAN Network Module With MACsec - Catalyst 8300
Power Supply / Fan	PWR-CC1-650WAC	650W AC PSU - Catalyst 8300 2RU
Optics	GLC-LH-SMD	1000BASE-LX/LH SFP - 10km SMF / 550m MMF - DOM
Optics	GLC-TE	1000BASE-T SFP - RJ-45 Cat5 Copper - 100m Reach
Optics	GLC-SX-MMD	1000BASE-SX SFP - MMF 850nm - DOM
Optics	GLC-EX-SMD	1000BASE-EX SFP - 40km SMF - DOM
Optics	GLC-ZX-SMD	1000BASE-ZX SFP - 70km SMF - EXT DOM

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