

CISCO CATALYST 8300 SERIES EDGE PLATFORMS

C8300-1N1S-4T2X

2x10G SFP+ + 4x1G RJ45 WAN · 1 SM + 1 NIM + 1 PIM Slots · 1RU Edge Router

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



Product Model	C8300-1N1S-4T2X
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 C8300-1N1S-4T2X is a Cisco Catalyst 8300 Series Edge Platform router that brings 10G SFP+ WAN ports and SD-WAN to a single rack unit at mid-sized branch sites. Two 10G SFP+ and four 1G RJ-45 routed ports carry up to 17 Gbps of SD-WAN IPsec at 1400 bytes and 6.3 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	C8300-1N1S-4T2X	Rack units	1RU
10G port density	2 x 10G SFP+ (0/0/4-0/0/5; also accept 1G SFP)	1G port density	4 x 1G RJ-45 (GE 0/0/0-0/0/3)
SM slots	1, single-wide modules	NIM slots	1; up to 3 NIMs with an SM-slot NIM carrier
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)	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 (factory default) or data plane heavy	SD-WAN IPsec throughput (1400 bytes)	Up to 17 Gbps
SD-WAN IPsec throughput with IQDF (1400 bytes)	Up to 17 Gbps	SD-WAN IPsec throughput (IMIX)	6.3 Gbps
SD-WAN IPsec throughput with IQDF (IMIX)	5.5 Gbps	SD-WAN overlay tunnels scale	6,000
50% IQDF + 50% DIA w. NAT + NGFW + IPS + URLF + AMP	3.3 Gbps (IOS XE 17.12.2, firewall EMIX profile)	DIA w. NAT + NGFW + IPS + URLF + AMP	2.9 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 16.9 Gbps
IPsec throughput (IMIX)	6.6 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	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-CC1-250WAC 250W AC, field replaceable
Power supply options	PWR-CC1-500WAC 500W AC PoE; PWR-CC1-400WDC 400W DC (-40 to -72V); PWR-CC1-400WHV 400W HVDC (240 to 380V DC)	PoE budget	250W with PWR-CC1-500WAC; none on PWR-CC1-250WAC
Power supply efficiency	80 Plus Silver (250W and 500W AC); 85% (400W DC); 80 Plus Platinum (400W HVDC)	Input voltage	AC: 85 to 264 VAC; DC: -40 to 72V, 48V nominal
Typical power, no modules, single PSU	245W	Fan modules	C8300-FAN-1R, ships installed
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 and storage, noncondensing	Operating altitude	0 to 10,000 ft (0 to 3050 m)
Sound pressure (typical/maximum)	49/71 dBA	Sound power (typical/maximum)	60/82 dBA
Dimensions (H x W x D)	1.73 x 17.50 x 16.25 in.	Weight	20 lb with 2 AC power supplies and fan tray
Mounting	19-inch kit included; 23-inch and 4-post kits optional	MTBF	536,060 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	EMC (ETSI/EN)	EN300 386; EN55032; EN55024; EN55035; EN61000-6-1

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-CC1-250WAC	250W AC PSU - Catalyst 8300 1RU
Power Supply / Fan	PWR-CC1-500WAC	500W AC PoE PSU - Catalyst 8300 1RU
Power Supply / Fan	PWR-CC1-400WDC	400W DC PSU - Terminal Block Input - Catalyst 8300 1RU
Optics	SFP-10G-SR-S	10GBASE-SR SFP+ - S-Class - 400m OM4 MMF
Optics	SFP-10G-SR	10GBASE-SR SFP+ - 850nm MMF - 400m OM4
Optics	SFP-10G-LR-S	10GBASE-LR SFP+ - S-Class - 10km SMF
Optics	SFP-10G-LR	10GBASE-LR SFP+ - 1310nm SMF - 10km Reach
Optics	SFP-10G-ER	10GBASE-ER SFP+ - 1550nm SMF - 40km Reach
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

Get Price and Availability for C8300-1N1S-4T2X

New, factory-sealed units with a 3-year warranty. Our sales team quotes within one business day, and in-stock orders ship within one business day of payment from our Hong Kong and US warehouses.

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