

CISCO · ROUTERS

C8500-12X4QC

12x1/10G SFP+ · 2x40/100G QSFP28 + 2x40G QSFP+ · 1RU Edge Router

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



Product Model	C8500-12X4QC
Category	Routers
Condition	New, factory-sealed
Warranty	3-year LSCare warranty
Supplier	Layer23-Switch · www.layer23-switch.com



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Edge Router

The C8500-12X4QC is a Cisco Catalyst 8500 Series 1RU edge router for SD-WAN aggregation and internet edge sites that terminate 40G and 100G links. The router has twelve 1/10GE SFP+ ports, two 40GE QSFP+ ports and two 40/100GE QSFP28 ports, up to 96 Gbps of SD-WAN IPsec at 1400 bytes across 8000 overlay tunnels, and 16 GB of DRAM upgradable to 64 GB.

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

Specifications

Product ID	C8500-12X4QC	Description	Cisco Catalyst 8500 Series 12-port SFP+, 2-port QSFP+, 2-port QSFP28
Interfaces	12 x 1/10GE SFP+, 2 x 40GE QSFP+, 2 x 40/100GE QSFP28	Max 1GE / 10GE / 40GE / 100GE ports	12 / 12 / 4 / 2
Bay 0	8 x SFP+, 10G or 1G per port	Bay 1	4 x SFP+ or 1 x QSFP: 1 x 100G, 1 x 40G or 4 x 10/1G breakout
Bay 2	3 x QSFP: 1 x 100G or 3 x 40G	100GE mode limit	With Bay 1 in 100GE mode, no other ports are available in Bay 0 or Bay 1
Maximum port configurations	4x40GE + 8x10GE; 1x100GE + 3x40GE; 1x100GE + 1x40GE + 8x10GE; 1x100GE + 12x10GE; 12x10GE + 3x40GE	10GE breakout	Up to 24 x 10GE with 4x10GE breakout cables on the QSFP 40G ports; not supported in SD-WAN mode
Dual-rate SFP+ ports	10G SFP+ without auto-negotiation; 1G SFP with auto-negotiation	Console port	RJ-45 and micro-USB
USB port	2 x USB 3.0	CPU	Third-generation Quantum Flow Processor ASIC with inline IPsec and MACsec; Intel x86 control CPU
Memory (DRAM)	16 GB default (MEM-C8500-16GB); 32 GB or 64 GB options	Boot flash storage	32 GB eUSB
Optional SSD	480 GB M.2 SATA (SSD-M2SATA-480G)	TCAM	80 MB
SD-WAN IPsec throughput (1400 bytes)	Up to 96 Gbps	SD-WAN IPsec throughput (IMIX)	Up to 31.9 Gbps
SD-WAN overlay tunnels scale	8000	IPv4 forwarding throughput (1400 bytes)	Up to 197 Gbps
IPsec throughput (1400 bytes)	Up to 135 Gbps	Number of IPsec SVTI tunnels	4000
Number of ACLs per system	4000	Number of IPv4 ACEs per system	380K
Number of IPv4 routes	4M with default 16 GB	Number of IPv6 routes	4M with default 16 GB
Number of queues	256K	Number of NAT sessions	16M
Number of firewall sessions	6M	Number of VRFs	8000

Software redundancy	Two IOS XE processes on one device in IOS XE routing mode	Broadband features	BNG, LNS, LAC and IWAG from Cisco IOS XE 17.9.3
Minimum software requirement	Cisco IOS XE 17.3.2; SD-WAN Manager 20.3.2	Network license	Cisco DNA Advantage, bandwidth Tier 3 (up to 20G aggregate)
Power supplies	2 redundant supplies by default: PWR-CH1-750WACR or PWR-CH1-950WDCR	PWR-CH1-750WACR	750W; 85 to 264 VAC, 47 to 63 Hz; 80 Plus Platinum; IEC 320 C14
PWR-CH1-950WDCR	950W; -40 to -72 VDC, -48V nominal; 86% efficiency; terminal block	Input voltage	AC: 85 to 264 VAC; DC: -40 to -72 VDC
Heat dissipation	1023.6 BTU/hr; max 1706.1 BTU/hr	Airflow	Front to back; supplies and fan tray must share the same direction
Fan modules	1RU fan tray; spare C8500-FAN-1R=	Sound pressure	Typical 61.1 dBA; maximum 69.8 dBA
Sound power	Typical 75.1 dBA; maximum 83.8 dBA	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	10 to 85% operating; 5 to 95% nonoperating and storage, noncondensing
Operating altitude	-500 to 10,000 ft (-152 to 3048 m)	NEBS criteria levels	GR-1089 and GR-63
Dimensions (H x W x D)	1.73 x 17.50 x 18.46 in.	Rack units	1RU
Weight	20.75 lb with 2 AC power supplies and fan tray	Rack installation	Two-post and four-post
MTBF	146,700 hours	Safety certifications	UL 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1; IEC 60950-1; AS/NZS 60950-1; GB4943
EMC (emissions)	47 CFR Part 15 Class A; ICES 003 Class A; AS/NZS CISPR 32 Class A; CISPR 22/CISPR 32 Class A; EN55022/EN55032 Class A; VCCI Class A; CNS-13438 Class A; KN32 Class A	EMC (immunity)	IEC/EN 61000-4-2, 61000-4-3, 61000-4-4, 61000-4-5, 61000-4-6, 61000-4-11; KN35

Optional Add-ons

Add-on	Cisco PID	Purpose
Optics	SFP-10G-SR-S	10GBASE-SR SFP+ - S-Class - 400m OM4 MMF
Optics	SFP-10G-LR-S	10GBASE-LR SFP+ - S-Class - 10km SMF
Optics	QSFP-40G-SR4-S	40G SR4 S-Class QSFP - MPO-12 MMF - No Breakout
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	QSFP-100G-SR4-S	100G SR4 QSFP - MPO-12 MMF - 100m OM4

Get Price and Availability for C8500-12X4QC

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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LAYER23-SWITCH