



C9400X-SUP-2 DataSheet

Boost your Catalyst 9400R with C9400X-SUP-2: 240 Gbps/slot fabric, 2.4 Tbps backbone, 4x25 G uplinks, MACsec-256 & programmable UADP 3.0 for secure campus aggregation.

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C9400X-SUP-2 Description



C9400X-SUP-2—known as the Catalyst 9400X Supervisor 2—delivers 240 Gbps per slot and a 2.4 Tbps fabric to any 9400R chassis, with four onboard 25 G/10 G SFP28 uplinks. Powered by Cisco's UADP 3.0 ASIC, it provides hardware MACsec-256 encryption, flexible SDM templates, and real-time telemetry via gRPC. Ideal for mid-tier aggregation and distribution, this supervisor balances performance, security, and cost for modern campus networks.

Quick Spec

Parameter	Specification
Per-slot switching capacity	240 Gbps
Centralized switching cap.	Up to 9.6 Tbps
Forwarding rate	900 Mpps (IPv4) / 782.6 Mpps (IPv6)
10 GbE SFP+ ports	Up to 388 non-blocking
25 GbE SFP28 ports	Up to 168 non-blocking
100/40 GbE uplinks	4 non-blocking
25/10 GbE uplinks	4 non-blocking
Total MAC addresses	Up to 128 000
IPv4 routing entries	Up to 256 000

Key Features

Model Comparison

Parameter	C9400-SUP-1XL	C9400X-SUP-2	C9400X-SUP-2XL
Per-slot fabric	240 Gbps	240 Gbps	480 Gbps
System fabric	1.44 Tbps	2.4 Tbps	9.6 Tbps
Uplinks	8×10 G or 2×40 G	4×25 G	4×100 G + 4×25 G
ASIC	UADP 2.0	UADP 3.0	UADP 3.0sec
MACsec-256	✓	✓	✓
DRAM	16 GB	8 GB	16 GB
Flash	10 GB	20 GB	20 GB
Redundancy	SSO/NSF, ISSU	SSO/NSF, ISSU	SSO/NSF, ISSU
Min IOS XE	16.9.1	17.7.1	17.7.1
Target layer	Access/Dist.	Dist./Core	Core/Agg.

Specification

Parameter	Specification	Parameter	Specification
Model	C9400X-SUP-2	Description	Next-generation supervisor with UADP 3.0sec ASIC and 100 GbE uplinks
ASIC	Cisco Unified Access Data Plane (UADP) 3.0sec	CPU / Memory / Storage	Intel 2.4 GHz x86 16 GB DRAM 20 GB flash 960 GB SSD
Uplink Ports	4 × 100/40 GbE + 4 × 25/10 GbE (non-blocking)	Central Switching Capacity	Up to 9.6 Tbps
Per-Slot Bandwidth	240 Gbps per slot (all chassis)	Forwarding Rate	3 Bpps (IPv4/IPv6 @ 95-byte)
MAC Address Table	128 000 entries	IPv4 / IPv6 Routes	256 000 / 256 000 entries
Flexible NetFlow	384 000 (v4) / 192 000 (v6) flows	VLAN IDs	4 096
Switched Virtual Interfaces	1 000	Jumbo Frame Support	Up to 9 216 bytes (L2-L4)
Minimum IOS XE Version	17.7.1 or later	MTBF	304 308 hours
Dimensions (H × W × D)	1.6 × 14.92 × 14.57 in (4.06 × 37.90 × 37.00 cm)	Weight	11.5 lb (5.2 kg)
Operating Temperature	23 – 113 °F (–5 – +45 °C) ≤ 6 000 ft; 23 – 104 °F (–5 – +40 °C) ≤ 10 000 ft	Storage Temperature	–40 – 158 °F (–40 – +70 °C)
Relative Humidity	10 – 95 % (non-condensing)	Operating Altitude	–60 – 3 000 m

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