



C9400X-SUP-2XL DataSheet

Cisco C9400X-SUP-2XL Supervisor with 4x100G uplinks, 480 Gbps slot bandwidth, ideal for Catalyst 9400 core and access switch deployments.



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C9400X-SUP-2XL Description



C9400X-SUP-2XL also known as the Catalyst 9400X Supervisor 2XL—supercharges any 9400R chassis with 480 Gbps per slot, a 9.6 Tbps switching fabric and integrated 100 G/40 G plus 25 G uplinks. Powered by Cisco’s UADP 3.0sec ASIC, this engine doubles route and ACL scale, delivers MACsec-256 and full-rate 100 G IPsec encryption, and streams real-time telemetry for intent-based networks. Alternate keywords: C9400X SUP 2XL, 9400X-2XL supervisor, Catalyst 9400X 100 G engine.

Model Meaning

Chunk	Meaning	Explanation
C	Cisco	Vendor prefix
9400X	Catalyst 9400 X series	3rd-generation 480 Gbps/slot chassis & line-cards
SUP	Supervisor	Route-switch engine for the chassis
2XL	“Double Extra Large” performance tier	Doubles per-slot & fabric bandwidth vs. 1XL-Y; adds 100 G uplinks, UADP 3.0sec ASIC

Model Comparison

Parameter	C9400-SUP-1XL-Y	C9400X-SUP-2XL	C9400-SUP-1
ASIC	UADP 2.0	UADP 3.0sec	UADP 1.0
Per-slot BW	240 G	480 G	80 G
System fabric	1.44 Tbps	9.6 Tbps	2.56 Tbps
Uplinks	8×10 G + 2×40 G	4×100 G + 4×25 G	8×10 G
Hardware IPsec	X	✓ (100 G)	X
MACsec-256	X	✓	X
DRAM	8 GB	16 GB	4 GB
FIB entries (IPv4)	144 k	256 k	96 k
SSD option	240–960 GB	240–960 GB	N/A
Power draw	400 W	600 W	350 W

Specification

Parameter	Specification
Product ID	C9400X-SUP-2XL — Supervisor engine
ASIC	UADP 3.0sec, programmable pipeline
CPU	8-core x86 @ 2.4 GHz (HT)
DRAM	16 GB DDR4 ECC
Flash / SSD	20 GB eMMC, NVMe 240/480/960 GB option
Per-slot switching Capacity	480 Gbps (all 9400R)
Centralized wired capacity	9.6 Tbps full-duplex
Uplinks	4 × 100/40 G QSFP28 + 4 × 25/10 G SFP28
MACsec-256	Yes — all ports
IPsec Throughput	100 Gbps line-rate AES-256
IPv4 / IPv6 Routes	256 k / 64 k (default SDM)
MAC Addresses	128 k entries
ACL Entries	27 k (dual-stack)
Latency	< 3 μs port-to-port
Redundancy	SSO / NSF (1 + 1 supervisors)
ISSU	Hitless software upgrades
Telemetry	gRPC model-driven streaming
Automation APIs	NETCONF, RESTCONF, on-box Python
Dimensions (H×W×D)	1.7 × 14 × 14 in (4.3 × 35.6 × 35.6 cm)
Weight	11.5 lb / 5.2 kg
Max Power Draw	600 W (active / standby)
Operating Temp	0 – 40 °C, non-condensing

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