



C9400-SUP-1XL DataSheet

C9400-SUP-1XL: Up-to-240 G/slot, 1.44 Tbps fabric, 8×10 G or 2×40 G uplinks, MACsec-256—ideal Catalyst 9400 supervisor for secure campus aggregation.

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C9400-SUP-1XL Description



C9400-SUP-1XL—commonly called the Catalyst 9400 Supervisor 1XL—is the sweet-spot engine for secure campus aggregation. Its programmable UADP 2.0 ASIC raises slot throughput to 240 Gbps in a C9404R (120 Gbps in C9407R, 80 Gbps in C9410R) while keeping overall cost and power draw low. Eight native 10 G SFP+ or two 40 G QSFP+ uplinks allow gradual migration from 10 G cores to 40 G backbones. With wire-rate MACsec-256, 16 GB DRAM for feature-rich IOS XE services, and optional NVMe SSD for on-box analytics, SUP-1XL delivers future-proof fabric capacity for mid-sized enterprises. Alternate keywords: C9400 Supervisor 1XL, Cisco C9400-SUP-1XL module.

Model Meaning

Chunk	Meaning	Comment
C	Cisco	Vendor prefix
9400	Catalyst 9400 Series chassis	Modular campus switch family
SUP	Supervisor engine	Provides control plane & fabric
1XL	Generation 1, eXtra-Large fabric	Up-to-240 Gbps/slot; higher table scale than SUP-1

Model Comparison

Parameter	C9400-SUP-1	C9400-SUP-1XL	C9400-SUP-1XL-Y
ASIC	UADP 2.0	UADP 2.0	UADP 2.0
Per-slot BW (C9404R)	80 G	240 G	240 G
System fabric	1.44 Tbps	1.44 Tbps	1.44 Tbps
Default uplinks	8×10 G / 2×40 G	8×10 G / 2×40 G	8×10 G + 2×25 G
MACsec-256	✓	✓	✓
Line-rate IPsec	✗	✗	✗
DRAM / Flash	16 GB / 10 GB	16 GB / 10 GB	16 GB / 10 GB
SSD option	≤ 960 GB	≤ 960 GB	≤ 960 GB
Min. IOS XE	16.6.1	16.9.1	16.9.1
Target layer	Access	Access / Dist.	Access / Dist. (with 25 G uplinks)

Specification

Parameter	Specification
Product ID	C9400-SUP-1XL — Supervisor Engine 1XL
ASIC	Cisco UADP 2.0, programmable
CPU	Intel x86, 2.4 GHz (8 threads)
DRAM	16 GB DDR4 ECC
Flash	10 GB eMMC
SSD Bay	NVMe 240 / 480 / 960 GB (optional)
Per-slot switching capacity	240 G (C9404R) • 120 G (C9407R) • 80 G (C9410R)
Centralized wired capacity	1.44 Tbps full-duplex
Uplink modes	8 × 10 G SFP+ 2 × 40 G QSFP+
MACsec-256	Yes — all ports
IPv4 / IPv6 routes	144 k / 72 k (default SDM)
MAC addresses	128 k entries
ACL entries	256 k (IPv4) / 128 k (IPv6)
Redundancy	Stateful SSO / NSF (dual SUP)
ISSU	Supported — hitless upgrades
Telemetry	NETCONF, RESTCONF, gRPC, SNMP
Dimensions	1.7 × 14 × 14 in (4.3 × 35.6 × 35.6 cm)
Weight	~10 lb / 4.5 kg
Max power	400 W (active or standby)
Operating temp	0 – 40 °C, non-condensing

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