



C9400-SUP-1 DataSheet

Catalyst C9400-SUP-1: 80 G/slot, 1.44 Tbps fabric, 8×10 G or 2×40 G uplinks, MACsec-256—affordable supervisor for secure campus access and distribution.



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C9400-SUP-1 Description



C9400-SUP-1—often called the Catalyst 9400 Supervisor Engine 1—is the entry-level control-plane for Cisco’s modular 9400 campus switches. Powered by a Cisco UADP 2.0 ASIC, it delivers 80 Gbps per slot and a 1.44 Tbps switching fabric while offering flexible uplinks: eight non-blocking 10 G SFP+ ports or two 40 G QSFP+ ports. With MACsec-256 hardware encryption, 16 GB DRAM for feature-rich IOS XE, and optional 960 GB SSD for on-box applications, C9400-SUP-1 is the cost-efficient choice for secure access-layer and distribution deployments. Synonyms and long-tail keywords: C9400 Supervisor 1, Cisco C9400-SUP-1 module, Catalyst 9400 Sup1.

Model Meaning

Chunk	Meaning	Comment
C	Cisco	Vendor prefix
9400	Catalyst 9400 Series chassis	Modular campus switch line
SUP	Supervisor engine	Provides control & fabric
1	Version 1	Entry-level UADP 2.0 supervisor

Model Comparison

Parameter	C9400-SUP-1	C9400-SUP-1XL-Y	C9400X-SUP-2
ASIC	UADP 2.0	UADP 2.0	UADP 3.0
Per-slot BW	80 G	240/120/80 G	240 G
System fabric	1.44 Tbps	1.44 Tbps	9.6 Tbps
Uplinks	8×10 G or 2×40 G	8×10 G + 2×25 G / 2×40 G	4×100 G + 4×25 G
MACsec-256	✓	✓	✓
HW IPsec	✗	✗	✗
DRAM / Flash	16 GB / 10 GB	16 GB / 10 GB	16 GB / 20 GB
SSD option	≤ 960 GB	≤ 960 GB	≤ 960 GB
Min IOS XE	16.6.1	16.9.1	17.7.1
Target layer	Access / Dist.	Core / Dist.	Access / Core

Specification

Parameter	Specification
Product ID	C9400-SUP-1 — Supervisor Engine 1
ASIC	UADP 2.0, programmable pipeline
CPU	Intel x86, 2.4 GHz (8 threads)
DRAM	16 GB DDR4 ECC
Flash	10 GB eMMC
SSD Slot	SATA/NVMe up to 960 GB (optional)
Per-slot switching capacity	80 Gbps (all 9400R chassis)
Centralized wired capacity	1.44 Tbps full-duplex
Uplink Modes	8 × 10 G SFP+ 2 × 40 G QSFP+
MACsec-256	Yes — on every port
IPv4 / IPv6 Routes	112 k / 56 k entries
MAC Addresses	64 000 entries
ACL Entries	384 k (v4) / 192 k (v6) FNF
Redundancy	SSO / NSF (dual supervisors)
ISSU	Supported (hitless upgrades)
Telemetry	NETCONF, RESTCONF, SNMP, gRPC
Dimensions	1 U slot; 1.7 × 14 × 14 in (4.3 × 35.6 × 35.6 cm)
Weight	~10 lb / 4.5 kg
Max Power	350 W (active or standby)
Operating Temp	0 – 40 °C, non-condensing
MTBF	253 000 h

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