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C9600-LC-40YL4CD DataSheet

Cisco Catalyst C9600-LC-40YL4CD line card offers 40x 50G/25G/10G SFP56 ports plus 400G uplinks, modular for Catalyst 9600 switches. Best for core & distribution upgrades. SUP-1 & SUP-2 compatible, 400G-ready

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C9600-LC-40YL4CD Description

C9600-LC-40YL4CD line card (also known as Catalyst 9600 40-port 50G module) is designed for Cisco Catalyst 9600 Series modular switches. It delivers 40 high-density SFP56 ports supporting 50G/25G/10G, plus 2 QSFP56 and 2 QSFP-DD uplink ports for speeds up to 400G. Compatible with both C9600-SUP-1 and C9600X-SUP-2 supervisor engines, this card enables scalable campus core or distribution deployments. With advanced bandwidth, flexible port combinations, and future-ready modular design, C9600-LC-40YL4CD is ideal for demanding enterprise or service provider network environments seeking high aggregation and next-generation performance.

Product Highlights

Ports

Slot Bandwidth(C9600X-SUP-2)

Slot Bandwidth(C9600-SUP-1)

Quick Specs

Parameter	Description

Ports	40 x 50G/25G/10G SFP56, 2 x 200G/100G/40G QSFP56, 2 x 400G QSFP-DD
Supervisor Compatibility	C9600-SUP-1, C9600X-SUP-2
Max Bandwidth/Slot	6.4 Tbps (C9600X-SUP-2), 2.4 Tbps (C9600-SUP-1)
Supported Chassis	Cisco Catalyst 9606R
Power Consumption	420W

Key Features

High-Density, High-Speed Aggregation

Delivers 40 SFP56 ports supporting 50G/25G/10G per port, ensuring efficient and scalable aggregation at the enterprise core, distribution, or large data center layers.

Future-Proof Uplink Capability

Features 2 QSFP56 (up to 200G each) and 2 QSFP-DD (up to 400G each) uplink ports, enabling seamless migration to ultra-high-speed backbone, metro, or data center interconnect requirements.

Flexible Deployment with Dual Supervisor Support

Fully compatible with both C9600-SUP-1 and C9600X-SUP-2 supervisor engines, allowing deployment in existing or next-gen Catalyst 9600 modular switch environments and easy hardware upgrade paths.

Non-Blocking Architecture & High Slot Bandwidth

Supports up to 6.4 Tbps per slot (when used with SUP-2), ensuring non-blocking, line-rate performance even at maximum port density, and guaranteeing no bottlenecks for demanding, bandwidth-intensive applications.

Enterprise-Class Security, Resiliency &

Manageability

Supports advanced security technologies including hardware MACsec-256 (with SUP-2), full hot-swappable design, redundant supervisor support, and seamless in-service software upgrades (ISSU), ensuring business continuity and data protection.

Rich Modular Ecosystem & Interoperability

Integrates into the Catalyst 9600 Series modular platform, enabling mix-and-match with various line cards for customized solutions, and offers investment protection by supporting evolving campus, data center, and provider requirements.
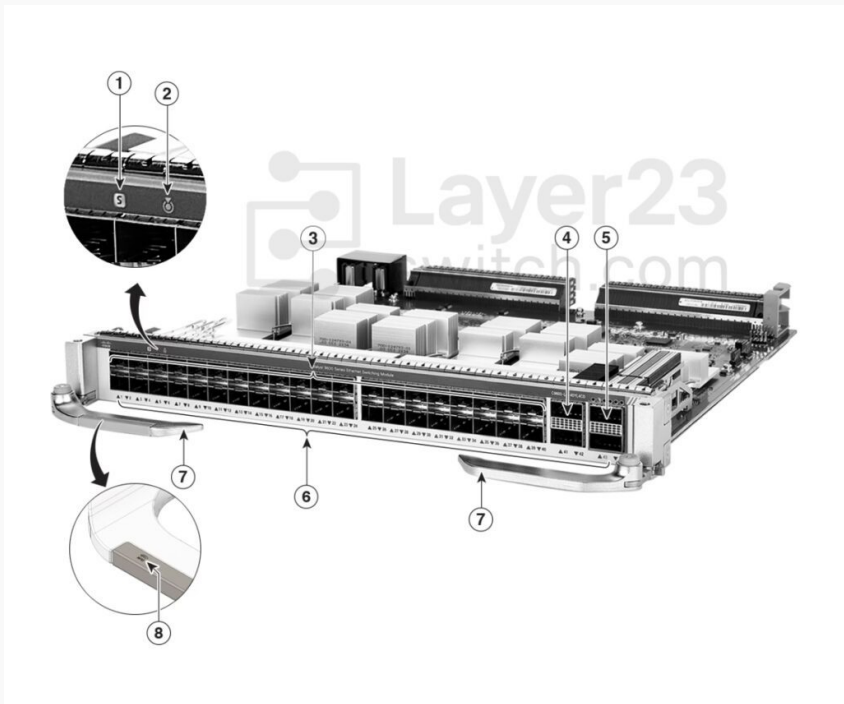
Product Comparison

Parameter	C9600-LC-40YL4CD	C9600-LC-24C	C9600-LC-48YL
Port Types	40 x 50G/25G/10G SFP562 x 200G QSFP562 x 400G QSFP-DD	24 x 100G/40G QSFP28	48 x 50G/25G/10G/1G SFP56
Max Ports per Card	40 x 50G, 2 x 200G, 2 x 400G	24 x 100G/40G	48 x 50G/25G/10G/1G
Supervisor Compatibility	SUP-1, SUP-2	SUP-1, SUP-2	SUP-1, SUP-2
Max Per Card Bandwidth	6.4 Tbps (SUP-2), 2.4 Tbps (SUP-1)	6.4 Tbps (SUP-2), 2.4 Tbps (SUP-1)	4.8 Tbps (SUP-2), 2.4 Tbps (SUP-1)
Power Consumption	420W	200W/280W	230W/300W
Dimensions (H x W x D)	1.7 x 15.0 x 13.41 in.	1.7 x 15.0 x 13.41 in.	1.7 x 15.0 x 13.41 in.
Weight	3.75 kg	3.48 kg	3.55 kg
MACsec Support	Yes (SUP-2 only)	No (SUP-2)	No (SUP-2)
Hot Swappable	Yes	Yes	Yes
Minimum Software	17.7.1 (SUP-1, SUP-2)	16.11.1 (SUP-1), 17.7.1 (SUP-2)	16.11.1 (SUP-1), 17.7.1 (SUP-2)

MTBF	580,420 hrs	710,750 hrs	640,750 hrs

C9600-LC-40YL4CD Front Panel Components

1	Status LED	5	2 x 400G/200G/100G/40G QSFP-DD ports
2	Locate (Blue beacon) LED	6	Port Link LEDs
3	40 x 50G/25G/10G SFP56 ports	7	Ejector levers
4	2 x 200G/100G/40G QSFP56 ports	8	RFID embedded on the left ejector lever

Specification

Parameter	Value	Parameter	Value
Product ID	C9600-LC-40YL4CD	**Ports (SFP56)**	40 x 50G/25G/10G
Ports (QSFP56)	2 x 200G/100G/40G	**Ports (QSFP-DD)**	2 x 400G/200G/100G/40G

Parameter	Value	Parameter	Value
Supervisor Compatibility	C9600-SUP-1, C9600X-SUP-2	Chassis Support	C9606R
Max Bandwidth per Slot	6.4 Tbps (SUP-2), 2.4 Tbps (SUP-1)	Power Consumption	420W
Dimensions (H x W x D)	1.7 x 15.0 x 13.41 in. (4.32 x 38.1 x 34.06 cm)	Weight	3.75 kg (8.27 lbs)
Operating Temp.	-5° to 45°C (up to 6000 ft); -5° to 40°C (up to 10,000 ft)	Humidity	10% to 95%, non-condensing
MTBF	580,420 hours	Hot Swappable	Yes
MACsec Support	Yes (SUP-2 only)	Minimum Software	17.7.1 (SUP-1/SUP-2)
Standards	IEEE 802.3z, 802.3x, 802.3ab	Pluggable Optics	SFP56, QSFP56, QSFP-DD

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