



C9600X-LC-32CD DataSheet

Cisco Catalyst C9600X-LC-32CD line card provides 30x 100G QSFP28 and 2x 400G QSFP-DD ports for Catalyst 9600 modular switches. High-density, scalable, 400G-ready, designed for core and data center upgrades.

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C9600X-LC-32CD Description



C9600X-LC-32CD line card, also known as Catalyst 9600X 32-port 100G module, is purpose-built for Cisco Catalyst 9600 Series modular switches requiring ultra-high-performance aggregation and backbone connectivity. Featuring 30 QSFP28 ports supporting 100G/40G and 2 QSFP-DD ports supporting 400G/200G/100G/40G, this module enables seamless migration to 400G infrastructure. Optimized for deployment with the C9600X-SUP-2 supervisor engine, the C9600X-LC-32CD delivers non-blocking throughput and flexible port combinations, making it ideal for data center, service provider, or enterprise campus core networks demanding robust, future-ready bandwidth.

Product Highlights

Ports

Slot Bandwidth(C9600X-SUP-2)

Max rated power

Quick Specs

Parameter	Description
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Product ID	C9600X-LC-32CD
Ports	30 x 100G/40G QSFP28, 2 x 400G/200G/100G/40G QSFP-DD
Supervisor Compatibility	C9600X-SUP-2
Max Bandwidth/Slot	6.4 Tbps (C9600X-SUP-2 only)
Supported Chassis	Cisco Catalyst 9606R
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	3.95 kg (8.71 lbs)

Key Features

Ultra-High Port Density

Offers 30 QSFP28 ports for 100G/40G, supporting dense aggregation, flexible breakout options, and scalable high-speed connectivity.

Next-Gen Uplink Expansion

Includes 2 QSFP-DD uplinks supporting 400G/200G/100G/40G, providing future-proof backbone or data center interconnect capability.

Non-Blocking Architecture & High Bandwidth

Delivers up to 6.4 Tbps per slot (when used with C9600X-SUP-2), ensuring line-rate performance for mission-critical applications.

Advanced Security and Hardware Redundancy

Supports hardware-based MACsec-256 encryption (license required), hot-swappable design, and full supervisor redundancy for business continuity.

Flexible Deployment and Modular Ecosystem

Seamlessly integrates with the Catalyst 9600 Series platform, allowing mix-and-match with other high-speed line cards to build customized core or DCI solutions.

Optimized for Core & Metro Networks

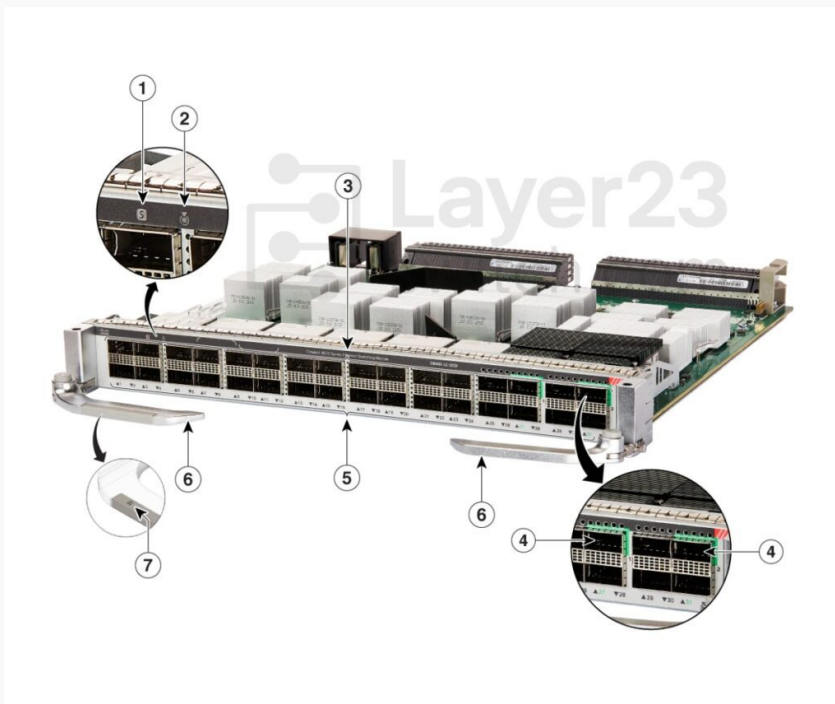
Purpose-built for enterprise campus cores, service provider metro aggregation, and data center environments requiring low latency and maximum throughput.

Product Comparison

Parameter	C9600X-LC-32CD	C9600-LC-40YL4CD	C9600X-LC-56YL4C
Port Types	30 x 100G/40G QSFP282 x 400G/200G/100G/40G QSFP-DD	40 x 50G/25G/10G SFP562 x 200G QSFP562 x 400G QSFP-DD	56 x 50G/25G/10G SFP564 x 100G QSFP28
Max Ports per Card	30 x 100G, 2 x 400G	40 x 50G, 2 x 200G, 2 x 400G	56 x 50G, 4 x 100G
Supervisor Compatibility	SUP-2	SUP-1, SUP-2	SUP-2
Max Per Card Bandwidth	6.4 Tbps (SUP-2)	6.4 Tbps (SUP-2), 2.4 Tbps (SUP-1)	6.4 Tbps (SUP-2)
Power Consumption	420W	420W	420W
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	3.95 kg	3.75 kg	3.75 kg
MACsec Support	Yes (license required)	Yes (SUP-2 only)	Yes (license required)
Hot Swappable	Yes	Yes	Yes
Minimum Software	17.9.1 (SUP-2)	17.7.1 (SUP-1, SUP-2)	17.13.1 (SUP-2)
MTBF	580,420 hrs	580,420 hrs	580,420 hrs

Front Panel Components

1	Status LED	5	Port Link LEDs
2	Locate (Blue beacon) LED	6	Ejector levers
3	30 QSFP28 ports	7	RFID embedded on the left ejector lever
4	2 QSFP-DD ports	-	-



Specification

Parameter	Value	Parameter	Value
Product ID	C9600X-LC-32CD	Ports (QSFP28)	30 x 100G/40G
Ports (QSFP-DD)	2 x 400G/200G/100G/40G	Supervisor Compatibility	C9600X-SUP-2 only
Chassis Support	C9606R	Max Bandwidth per Slot	6.4 Tbps (SUP-2)
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)

Parameter	Value	Parameter	Value
Weight	3.95 kg (8.71 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 (license required)
Minimum Software	17.9.1 (SUP-2)	Standards	IEEE 802.3cd, 802.3bs, 802.3ba
Pluggable Optics	QSFP28, QSFP-DD	Supervisor Redundancy	Yes (on chassis)

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