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C9606R DataSheet

Cisco Catalyst C9606R modular chassis delivers 6 slots, up to 25.6 Tbps, redundant supervisors, hot-swappable design, and scalable 400G support for campus and core network upgrades.

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C9606R Description

C9606R (Catalyst 9600 Series 6-slot modular chassis) is the foundation of Cisco's flagship modular switching platform for next-generation enterprise campus, core, and aggregation networks. Featuring 4 high-speed line card slots and 2 redundant supervisor slots, it supports up to 25.6 Tbps switching capacity, 400G/200G/100G/50G/25G/10G ports, and offers full hot-swappable module design. The C9606R chassis includes side-to-side airflow, front/rear serviceable fan tray, and accommodates up to 4 hot-swappable AC/DC power supplies. Built for always-on availability, it enables seamless in-service software upgrades, redundant supervisors, advanced automation, and asset tracking via embedded RFID, making it the ideal choice for scalable, future-proof campus and aggregation deployments.

Product Highlights

Line card slots

Supervisor engine slots

Bandwidth per slot

Quick Specs

Parameter	Description

Product ID	C9606R
Form Factor	6-slot modular chassis
Line Card Slots	4
Supervisor Slots	2 (redundant, slots 3 & 4)
Max Slot Bandwidth	6.4 Tbps (SUP-2) / 2.4 Tbps (SUP-1)
System Switching Capacity	Up to 25.6 Tbps (12.8 Tbps full-duplex)
Power Supply Bays	4 (AC/DC hot-swappable)
Fan Tray	1 (9 redundant fans, hot-swappable)
Operating Temperature	-5° to 45°C (up to 6000 ft), -5° to 40°C (up to 10,000 ft)
MTBF	4,113,900 hours

Key Features

Scalable 6-Slot Modular Design

Accommodates up to 4 line cards and 2 redundant supervisor engines, supporting flexible, investment-protected expansion.

Massive Switching Capacity

Delivers up to 25.6 Tbps (12.8 Tbps full-duplex) system capacity, enabling dense 400G/100G/50G/25G/10G aggregation.

Full Redundancy & High Availability

Supports redundant supervisors, PSUs, and fan trays; all hot-swappable for uninterrupted operations and in-service upgrades.

Advanced Cooling & Power Efficiency

Features side-to-side airflow, intelligent fan tray (9 fans), up to 4 hot-swappable AC/DC power modules, and high energy efficiency.

Comprehensive Security & Automation

Integrates with Cisco Trust Anchor, MACsec support (with suitable line card/SUP), asset RFID, and supports advanced automation via model-driven programmability.

Future-Proof & Easy Maintenance

Front and rear module accessibility, modular upgrades, and robust chassis mean low total cost of ownership and long lifecycle.

Specification

Parameter	Value	Parameter	Value
Product ID	C9606R	Form Factor	6-slot modular chassis
Line Card Slots	4	Supervisor Slots	2 (redundant, slots 3 & 4)
Max Slot Bandwidth	6.4 Tbps (SUP-2) / 2.4 Tbps (SUP-1)	System Switching Capacity	25.6 Tbps (12.8 Tbps full-duplex)
Power Supply Bays	4 (hot-swappable, AC/DC)	Fan Tray	1 (9 fans, hot-swappable)
Dimensions (H x W x D)	13.95 x 17.4 x 16.1 in. (35.43 x 44.2 x 40.9 cm)	Weight	31.31 kg (69.03 lbs, with 2 PSUs & fan tray)
Operating Temperature	-5° to 45°C (up to 6000 ft), -5° to 40°C (up to 10,000 ft)	MTBF	4,113,900 hours
Hot Swappable Modules	Supervisors, line cards, PSUs, fan tray	RFID Support	Yes (asset tracking)
Redundant Supervisors	Yes (1+1, SSO, ISSU)	Automation	NETCONF, RESTCONF, YANG, RFID
Compliance & Security	Trust Anchor, MACsec (with SUP/line card)	Chassis Airflow	Side-to-side, front/rear service

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- WhatsApp: +8617181189993
- Wechat: 17181189993
- Email: sales@layer23-switch.com