



C9600-LC-48TX DataSheet

Cisco C9600-LC-48TX 48-port multigigabit RJ45 line card for Catalyst 9600 switch, 960Gbps full-duplex, hot-swappable, supports C9600X-SUP-2 & C9600-SUP-1

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C9600-LC-48TX Description



Cisco Catalyst C9600-LC-48TX, also known as the Catalyst 9600 48-port multigigabit copper line card, provides high-density 10G/5G/2.5G/1G/100M/10M Ethernet aggregation for modern campus and enterprise core networks. This module supports 48 multigigabit RJ45 ports, is compatible with both C9600-SUP-1 and C9600X-SUP-2 supervisor engines, and delivers 960 Gbps full-duplex per slot bandwidth. The C9600-LC-48TX is ideal for organizations seeking scalable, non-blocking copper connectivity for access, aggregation, or distribution layers.

Product Highlights

Ports

Slot Bandwidth

Max rated power

Quick Specs

| | |
|--------------------------|--|
| Ports | 48 x Multigigabit RJ45 (10G/5G/2.5G/1G/100M/10M) |
| Supervisor Compatibility | C9600-SUP-1 / C9600X-SUP-2 |

| | |
|------------------------|--|
| Max Per Card Bandwidth | 960 Gbps full-duplex per slot |
| Max Power Consumption | 315W (SUP-2) / 315W (SUP-1) |
| MTBF | 543,000 hours |
| Dimensions | 1.7 × 15.0 × 13.41 in (4.32 × 38.1 × 34.06 cm) |

Key Features

48 Multigigabit RJ45 Ports

Provides 48 non-blocking RJ45 copper ports, each supporting 10G, 5G, 2.5G, 1G, 100M, and 10M speeds, perfect for both high-speed and legacy device aggregation in modern campus networks.

960 Gbps Full-Duplex Bandwidth per Slot

Delivers up to 960Gbps per slot, ensuring wire-speed forwarding for all ports even under full load, and eliminating network bottlenecks.

Supervisor Compatibility & Investment Protection

Compatible with both C9600-SUP-1 and C9600X-SUP-2 supervisors, supporting easy upgrades and mixed deployments in Catalyst 9606R chassis.

Robust Security & Policy Support

Hardware-based access controls, advanced QoS, and traffic segmentation deliver secure, reliable performance for enterprise and education environments.

Operational Excellence & Automation Ready

Hot-swappable design, tool-free installation/removal, and advanced Cisco programmability (NETCONF, RESTCONF, YANG) for streamlined operations and rapid provisioning.

High Reliability, Energy Efficient, and Global Compliance

MTBF up to 543,000 hours, typical power efficiency of 94%, and compliance with CE, UL, FCC, RoHS, VCCI, CCC, BSMI for global deployments and sustainable IT.

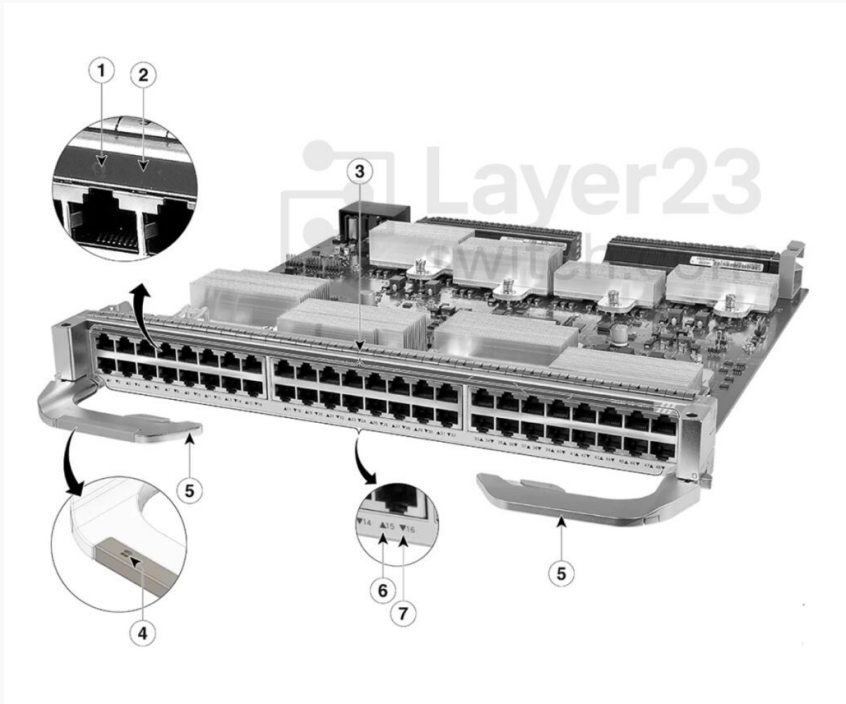
Product Comparison

| Parameter | C9600-LC-48TX | C9600-LC-48YL | C9600-LC-24C |
|----------------------|---------------------------------------|-------------------------------|--------------------------|
| Port Types | 48x RJ45 (10G/5G/2.5G/1G/100M/10M) | 48x SFP56 (50/25/10/1G) | 24x QSFP28 (100G/40G) |
| Supervisor Support | SUP-1, SUP-2 | SUP-1, SUP-2 | SUP-1, SUP-2 |
| Max 10G Ports | 48 | 48 | N/A |
| Max 5G/2.5G/1G Ports | 48 | 48 | N/A |
| Max 100G Ports | N/A | N/A | 24 |
| Slot Bandwidth | 960 Gbps full-duplex | 4.8 Tbps (SUP-2) | 4.8 Tbps (SUP-2) |
| Power Consumption | 315W (SUP-2) | 300W (SUP-2) | 280W (SUP-2) |
| Dimensions (H×W×D) | 1.7×15.0×13.41 in | 1.7×15.0×13.41 in | 1.7×15.0×13.41 in |
| MTBF | 543,000 hrs | 640,750 hrs | 710,750 hrs |
| MACsec Support | UADP ASIC only (not on SUP-2) | UADP ASIC only (not on SUP-2) | Yes (UADP 3.0 ASIC only) |
| Hot Swappable | Yes | Yes | Yes |

Front Panel Components

| | | | |
|---|--------------------------|---|---|
| 1 | Status LED | 5 | Ejector levers |
| 2 | Locate (Blue beacon) LED | 6 | Port Link LED for the port in the top row |

| | | | |
|---|---|---|--|
| 3 | 10G/5G/2.5G/1G/100 Mbps/10 Mbps RJ45 copper ports | 7 | Port Link LED for the port in the bottom row |
| 4 | RFID embedded on the left ejector lever | - | - |



Specification

| Parameter | Value | Parameter | Value |
|----------------------------------|---------------------------------------|---------------------------------|---|
| Product ID | C9600-LC-48TX | Line Card Type | 48-port Multigigabit RJ45 |
| Compatible Chassis | C9606R | Supervisor Compatibility | C9600X-SUP-2, C9600-SUP-1 |
| Fan Tray Compatibility | C9606-FAN | Power Supply Support | C9600-PWR-3KWAC, C9600-PWR-2KWAC, C9600-PWR-2KWDC |
| Port Types | 48x RJ45 (10G/5G/2.5G/1G/100M/10M) | Supported Speeds | 10G, 5G, 2.5G, 1G, 100M, 10M |
| Non-blocking Architecture | Yes | Slot Bandwidth | 960 Gbps full-duplex per slot |

| Parameter | Value | Parameter | Value |
|---|--|--------------------------------|--|
| Maximum Port Density per Chassis | 192 (4 cards in C9606R) | Hot Swappable | Yes |
| MACsec Support | Supported (UADP ASIC only, not on SUP-2) | Max Power Consumption | 315W (SUP-2), 315W (SUP-1) |
| Dimensions (H × W × D) | 1.7 × 15.0 × 13.41 in (4.32 × 38.1 × 34.06 cm) | Weight | 4.03 kg (8.88 lbs) |
| MTBF | 543,000 hours | Operating Temperature | -5°C to 45°C (up to 6,000 ft) |
| Storage Temperature | -40°C to 75°C | Relative Humidity | 10% to 95%, non-condensing |
| Altitude | -60 to 3,000 m (-197 to 9,843 ft) | Energy Efficiency | 94% (typical) |
| Green Compliance | RoHS, WEEE, recyclable packaging | Regulatory Compliance | IEEE 802.3z, 802.3x, 802.3ab, CE, UL, FCC, VCCI, CCC, BSMI |
| Certifications | CE, UL, FCC, RoHS | Mixed Line Card Support | Yes, in any of 4 slots |
| Installation | Hot swappable, tool-free | Module MTBF | 543,000 hours |

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