

BRAND NEW & VERIFIED



VERIFIED PRODUCT DATASHEET

C9500-48Y4C-E

Cisco Network Hardware Specification, Availability and Quote Reference

Product Model	C9500-48Y4C-E
Document Type	Product Datasheet
Condition	Brand New, Original and Verified
Supplier	Layer23-Switch.com

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C9500-48Y4C-E Datasheet

The Cisco C9500-48Y4C-E datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the C9500-48Y4C-E and integrate it into enterprise or service provider networks with confidence.

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Key Features

High-Density 25G Aggregation

Offers 48 × SFP28 ports and 4 × 100G uplinks for massive bandwidth expansion in campus and data-center aggregation layers.

UADP 3.0 Programmable Silicon

Provides flexible QoS, ACL, and telemetry capabilities with hardware-based automation support.

StackWise Virtual High Availability

Two switches operate as a single logical unit, delivering SSO and ISSU for non-stop operation.

Secure and Trusted Infrastructure

Includes Trust Anchor Module and 256-bit MACsec encryption for complete data and control-plane protection.

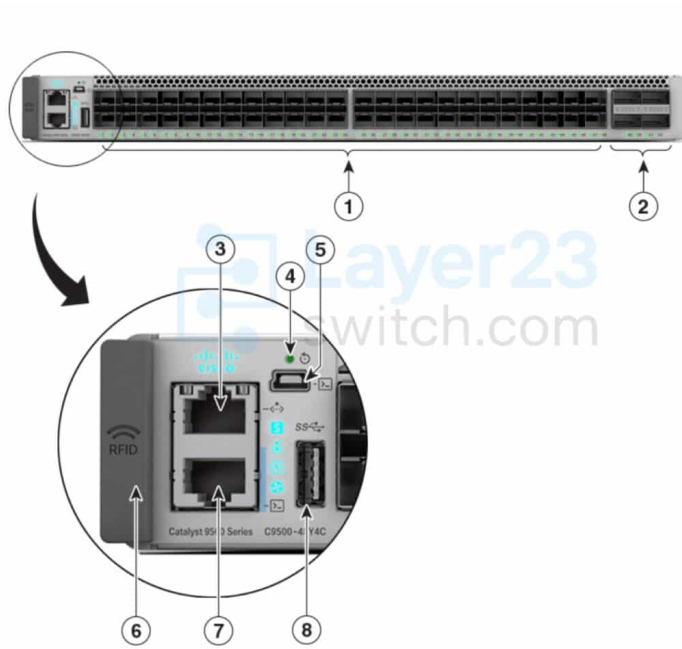
Cloud and Automation Integration

Supports Cisco Catalyst Center and Meraki Cloud Monitoring with open APIs (NETCONF, gNMI).

Energy-Efficient Compact Design

1 RU chassis with dual PSUs and modular fans simplifies maintenance and reduces downtime.

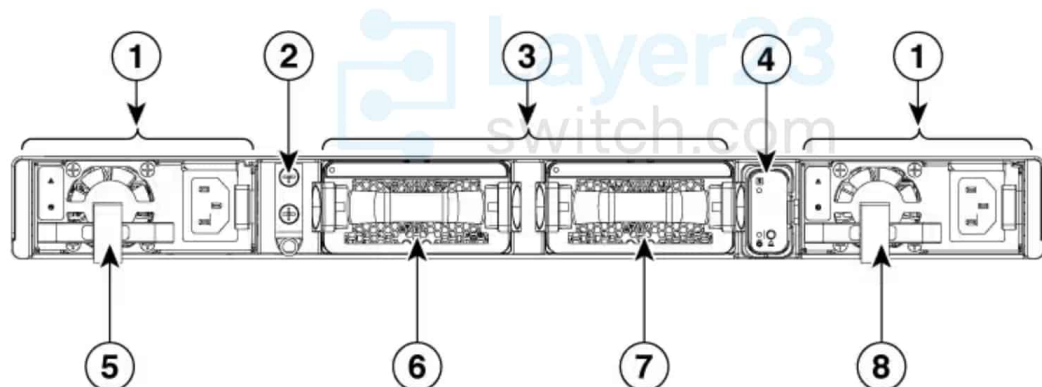
C9500-48Y4C-E Switch Front Panel



1	48 1G/10G/25G SFP28 ports	5	USB mini Type B console port
2	Uplink ports	6	RFID (Optional)
3	Ethernet management port	7	Console port (RJ-45 Serial)
4	Reset button	8	USB 3.0 host port

C9500-48Y4C-E Switch Rear Panel

The switch rear panel includes StackWise connectors, StackPower or XPS connectors, ports, fan modules, and power supply modules.



1	Power supply modules	5	PSU 1
2	Grounding pad	6	Fan 1
3	Fan modules	7	Fan 0
4	SATA SSD module	8	PSU 0

Components Delivered in the Shipping Box

The shipping box contains the model of the switch you ordered and other components needed for installation. Some components are optional, depending on your order.

1	Cisco Catalyst 9500 Series switch with optional network module ¹ (power supply and fan modules not shown)	7	Eight number-8 Phillips flat-head 0.312" long screws
2	Product documentation and compliance document	8	Two M4.0 x 20mm Phillips pan-head screws (Black color)
3	Two 19-inch mounting brackets	9	Ground lug and two M4.0 x 8mm Phillips pan-head screws
4	Two Cable guides	10	(Optional) AC power cord ²

5	Four number-12 pan-head 0.50" long screws	11	(Optional) RJ-45 console cable ¹
6	Four number-10 pan-head 0.625" long screws	12	(Optional) USB console cable ¹



Specification

Parameter	Specification	Parameter	Specification
Model / License	C9500-48Y4C-E (Network Essentials)	Family	Catalyst 9500 High-Performance Series
Downlink Ports	48 × 1G/10G/25G SFP28	Uplink Ports	4 × 40G/100G QSFP28 (fixed)
ASIC	Cisco UADP 3.0 programmable ASIC	Architecture	Line-rate non-blocking switching
Switching Capacity	3.2 Tbps (full duplex)	Forwarding Rate	1 Bpps (64-byte frames)
MAC Address Table	64 000 entries	IPv4 / IPv6 Routes	256 000 each (direct + indirect)
VLAN IDs	4094	Jumbo Frames	9216 bytes
High Availability	StackWise Virtual, SSO, ISSU supported	Routing Protocols	OSPF, EIGRP, BGP, IS-IS, PIM
Security	Trust Anchor, Secure Boot, MACsec 256-bit	QoS	Hierarchical QoS (2-level scheduling)
Automation	NETCONF, RESTCONF, gNMI, Model-Driven Telemetry	Management	Cisco Catalyst Center / Meraki Cloud Monitoring
Operating System	Cisco IOS XE 16.8.1a or later	Licensing	Smart License - Network Essentials / DNA Subscription
Power Supply	Dual 650 W AC (C9K-PWR-650WAC-R)	Airflow	Front-to-Back (C9K-T1-FANTRAY × 4)
MTBF	≈ 336 780 hours	Environment	0 °C - 40 °C; 10-95 % RH (non-condensing)
Dimensions (H×W×D)	1.73 × 17.5 × 18.0 in	Weight	9.96 kg (fully loaded)
Compliance	UL 60950-1, EN 60950-1, FCC Class A	Warranty	Enhanced Limited Lifetime (E-LLW)

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- WhatsApp: [+8617181189993](https://wa.me/8617181189993)
- Wechat: [layer23-switch](https://weixin.qq.com/r/layer23-switch)
- Telegram: [layer23_switch](https://t.me/layer23_switch)
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