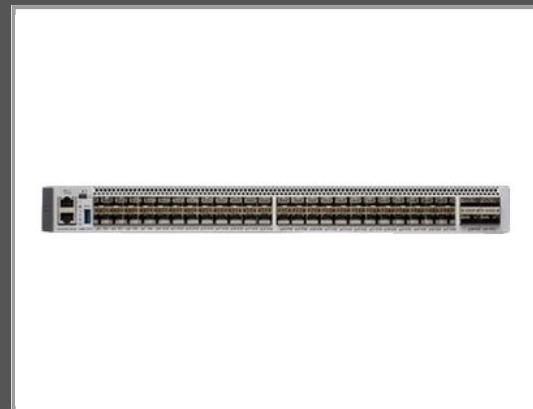


# Cisco Catalyst 9500 - Network Advantage

switch - L3 - Managed - 48 x 25 Gigabit SFP28 - rack-mountable

Group	Network Equipment
Manufacturer	Cisco
Manufacturer item no.	C9500-48Y4C-A
EAN/UPC	0889728142625



## Description

The Cisco Catalyst 9500 Series Switches are the next generation of enterprise-class core and aggregation layer switches, supporting full programmability and serviceability. Based on an x86 CPU, the Catalyst 9500 Series is Cisco's lead purpose-built fixed core and aggregation enterprise switching platform, built for security, IoT, and cloud. The Catalyst 9500 Series is the industry's first purpose-built 40 Gigabit Ethernet line of switches targeted for the enterprise campus.

## Main features

Product Description	Cisco Catalyst 9500 - Network Advantage - switch - 48 ports - Managed - rack-mountable
Device Type	Switch - 48 ports - L3 - Managed
Enclosure Type	Rack-mountable 1U
Subtype	25 Gigabit Ethernet
Ports	48 x 25 Gigabit SFP28
Performance	Switching capacity (full duplex): 3.2 Tbps   Forwarding rate: 1 Bpps
Capacity	Routing table entries: 80000   Indirect IPv4 routes: 212000   Host IPv4 routes: 90000   Indirect IPv6 routes: 212000   Host IPv6 routes: 90000   Multicast scale: 32000   QoS ACL scale: 16000   Security ACL scale: 270000   FNF entries: 96000   VLAN IDs: 4000   Switched virtual interfaces (SVIs): 4000
MAC Address Table Size	64K entries
Jumbo Frame Support	9198 bytes
Routing Protocol	OSPF, IS-IS, RIP-2, BGP, EIGRP, IGMP, VRRP, PIM-SM, PIM-SSM, MSDP, RIPng, MPLS
Remote Management Protocol	SNMP 1, RMON 1, RMON 2, SNMP, SNMP 3, SNMP 2c, TFTP, NETCONF, RESTCONF
Features	DHCP support, NAT support, PAT support, trunking, MPLS support, Non-Stop Forwarding (NSF), Stateful switchover (SSO), Class-Based Weighted Fair Queuing (CBWFQ), Weighted Random Early Detection (WRED), Spanning Tree Protocol (STP) support, Virtual Route Redundancy Protocol (VRRP) support, Access Control List (ACL) support, Quality of Service (QoS), Non-Stop Routing (NSR), Remote Switch Port Analyzer (RSPAN), Hot Standby Router Protocol (HSRP) support, Virtual Routing and Forwarding (VRF), Maximum Likelihood Demodulation (MLD), Flexible NetFlow (FNF), Multicast Source Discovery Protocol (MSDP), MACsec support, Control plane protection (CoPP), integrated Wireshark, VLAN Double Tagging (Q-in-Q), Ethernet over MPLS (EoMPLS), Hierarchical Virtual Private LAN Service (H-VPLS), Private VLAN, Layer 3 VPN (L3VPN) support, CoAP support, Switched Port Analyzer (SPAN)
Compliant Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.3ae, IEEE 802.1s, IEEE 802.1ae, IEEE 802.3ba

Power	AC 120/230 V (50 - 60 Hz)
Power Redundancy	Optional
Dimensions (WxDxH)	44.5 cm x 45.7 cm x 4.39 cm
Weight	9.96 kg

## Extended details

General	
Device Type	Switch - 48 ports - L3 - Managed
Enclosure Type	Rack-mountable 1U
Subtype	25 Gigabit Ethernet
Ports	48 x 25 Gigabit SFP28
Performance	Switching capacity (full duplex): 3.2 Tbps   Forwarding rate: 1 Bpps
Capacity	Routing table entries: 80000   Indirect IPv4 routes: 212000   Host IPv4 routes: 90000   Indirect IPv6 routes: 212000   Host IPv6 routes: 90000   Multicast scale: 32000   QoS ACL scale: 16000   Security ACL scale: 270000   FNF entries: 96000   VLAN IDs: 4000   Switched virtual interfaces (SVIs): 4000
MAC Address Table Size	64K entries
Jumbo Frame Support	9198 bytes
Routing Protocol	OSPF, IS-IS, RIP-2, BGP, EIGRP, IGMP, VRRP, PIM-SM, PIM-SSM, MSDP, RIPng, MPLS
Remote Management Protocol	SNMP 1, RMON 1, RMON 2, SNMP, SNMP 3, SNMP 2c, TFTP, NETCONF, RESTCONF
Encryption Algorithm	256-bit AES
Features	DHCP support, NAT support, PAT support, trunking, MPLS support, Non-Stop Forwarding (NSF), Stateful switchover (SSO), Class-Based Weighted Fair Queuing (CBWFQ), Weighted Random Early Detection (WRED), Spanning Tree Protocol (STP) support, Virtual Route Redundancy Protocol (VRRP) support, Access Control List (ACL) support, Quality of Service (QoS), Non-Stop Routing (NSR), Remote Switch Port Analyzer (RSPAN), Hot Standby Router Protocol (HSRP) support, Virtual Routing and Forwarding (VRF), Maximum Likelihood Demodulation (MLD), Flexible NetFlow (FNF), Multicast Source Discovery Protocol (MSDP), MACsec support, Control plane protection (CoPP), integrated Wireshark, VLAN Double Tagging (Q-in-Q), Ethernet over MPLS (EoMPLS), Hierarchical Virtual Private LAN Service (H-VPLS), Private VLAN, Layer 3 VPN (L3VPN) support, CoAP support, Switched Port Analyzer (SPAN)
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Processor	1: 2.4 GHz
RAM	16 GB
Flash Memory	16 GB
Built-in Devices	RFID tag
Expansion / Connectivity	
Interfaces	48 x 25Gbit LAN SFP28   4 x 100Gbit LAN   2 x USB 3.0
Power	
Power Device	Internal power supply - hot-plug
Installed Qty	1 (installed) / 2 (max)

Power Redundancy	Optional
Power Redundancy Scheme	1+1
Power Provided	650 Watt
Voltage Required	AC 120/230 V (50 - 60 Hz)
<b>Miscellaneous</b>	
MTBF	316,960 hours
Compliant Standards	CISPR 22 Class A, CISPR 24, EN 61000-3-2, EN 61000-3-3, EN55024, EN50082-1, EN 61000-6-1, EN 61000-4-4, EN 61000-4-2, EN 61000-4-3, EN 61000-4-6, CCC, ICES-003 Class A, EN 61000-4-5, UL 60950-1, IEC 60950-1, EN 60950-1, RoHS, AS/NZS 3548 Class A, BSMI Class A, VCCI Class A, EN 55022 Class A, FCC CFR47 Part 15 A, EN 300 386, TVCN 7317, VCCI V-3/2009 Class A, CAN/CSA-C22.2 No. 60950-1
<b>Software / System Requirements</b>	
Software Included	Cisco IOS XE 16.8.1
<b>Dimensions &amp; Weight</b>	
Width	44.5 cm
Depth	45.7 cm
Height	4.39 cm
Weight	9.96 kg
<b>Manufacturer Warranty</b>	
Service & Support	Limited warranty - replacement - lifetime - response time: next business day   Technical support - consulting - 90 days
<b>Environmental Parameters</b>	
Min Operating Temperature	0 °C
Max Operating Temperature	40 °C
Humidity Range Operating	5 - 90% (non-condensing)
Min Storage Temperature	-20 °C
Max Storage Temperature	65 °C
Humidity Range Storage	5 - 95% (non-condensing)

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