

C9300L-48P-4G-A DataSheet

C9300L-48P-4G-A: 48 PoE+ ports, 4×1 Gbps SFP uplinks, Network Advantage license, 320 Gbps stacking; ideal for secure, scalable enterprise access. (≤160 characters)

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C9300L-48P-4G-A Description

The Cisco Catalyst 9300L-48P-4G-A is a high-density PoE+ access switch designed for modern enterprise environments. It delivers 48 Gigabit PoE+ ports (30 W each) powered by a default 715 W AC power supply, offering up to 505 W for connected devices. Four fixed 1 Gbps SFP uplinks provide fiber connectivity to distribution or core layers. Running Cisco IOS XE with the Network Advantage license, it supports advanced Layer 3 routing protocols (OSPF, EIGRP, BGP), MPLS, multicast, and application-aware QoS. StackWise-320 enables up to 320 Gbps of stacking bandwidth across eight switches, allowing the entire stack to function as a single logical unit. Security features include MACsec encryption, 802.1X authentication, and Control Plane Policing. Management can be performed via on-box CLI, WebUI, Cisco DNA Center, or Meraki Dashboard (with appropriate license). This model is ideal for large campus access deployments requiring robust PoE capabilities and advanced routing features.

Model Meaning

Field	Description
C9300L	Cisco Catalyst 9300 fixed-uplink (non-modular) series
48P	48 PoE+ ports (each up to 30 W)
4G	4 fixed 1 Gbps SFP uplink ports
A	Network Advantage license (advanced Layer 3 feature set)

Key Features

Product Comparison

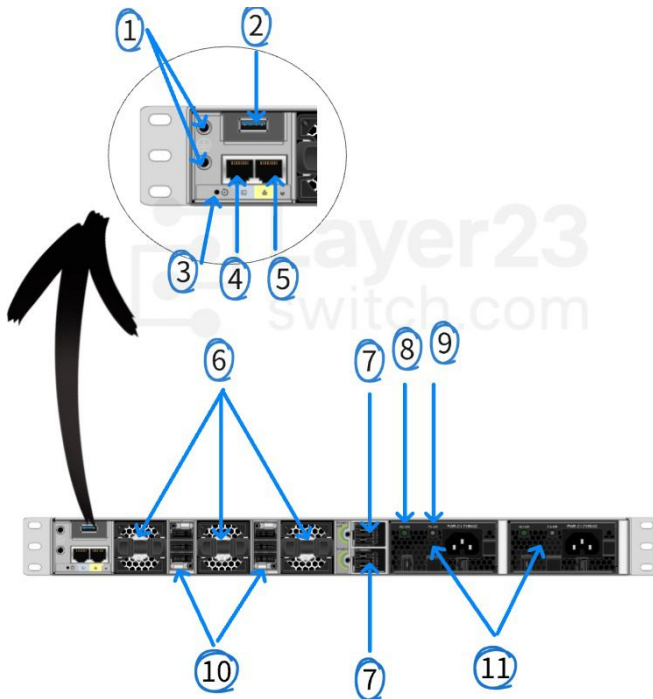
Feature	C9300L-48P-4G-A	C9300L-48P-4G-E	C9300L-24P-4G-A
License	Network Advantage	Network Essentials	Network Advantage
Switching Capacity	104 Gbps (424 Gbps stack)	104 Gbps (424 Gbps stack)	56 Gbps (376 Gbps stack)
Forwarding Rate	77.38 Mpps (315.48 Mpps stack)	77.38 Mpps (315.48 Mpps stack)	41.66 Mpps (279.76 Mpps stack)
Downlink Ports	48 × PoE+ (30 W each)	48 × PoE+ (30 W each)	24 × PoE+ (30 W each)
PoE Budget (Default)	505 W	505 W	370 W
Uplink Ports	4 × 1 Gbps SFP	4 × 1 Gbps SFP	4 × 1 Gbps SFP
Stacking Bandwidth	320 Gbps	320 Gbps	320 Gbps
Default PSU	715 W AC	715 W AC	715 W AC

C9300L-48P-4G-A Switch Rear Panel

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

1	Ground connectors	7	StackPower connectors
2	USB3.0-SSD port	8	AC OK (input) status LED
3	BEACON LED	9	PS OK (output) status LED
4	CONSOLE (RJ-45 console port)	10	StackWise-480 port connectors

5	MGMT (RJ-45 10/100/1000 management port)	11	Power supply modules
6	Fan modules	-	-

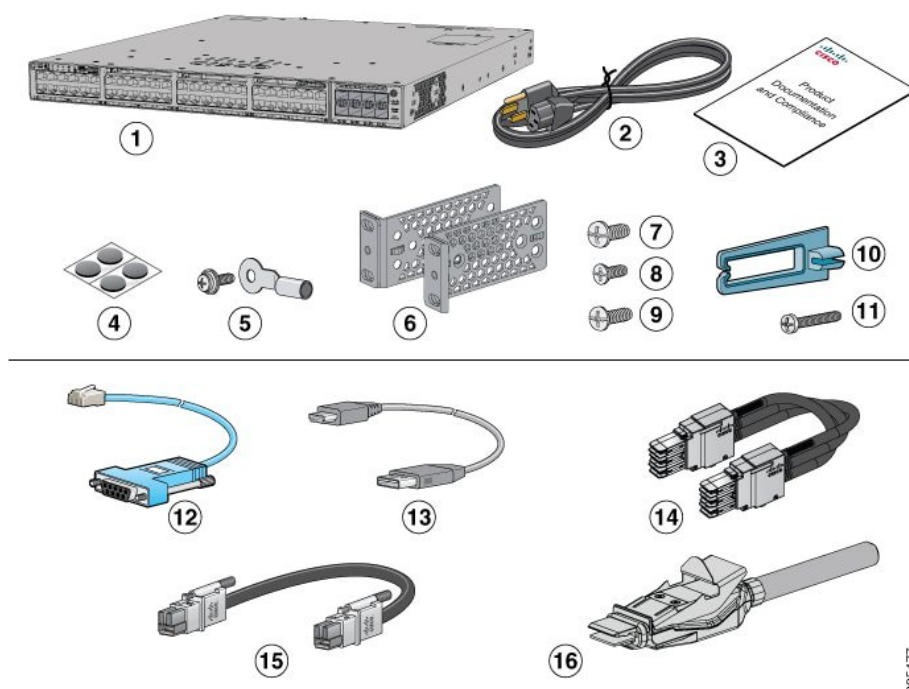


Components Delivered in the Shipping Box

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 9300 Series switch with optional network module ¹ (power supply and fan modules not shown)	9	Eight number-8 Phillips flat-head screws
2	AC power cord	10	Cable guide
3	Product documentation and compliance document	11	M4.0 x 20mm Phillips pan-head screw
4	Four rubber mounting feet	12	(Optional) RJ-45 console cable
5	Ground lug screw and ring terminal	13	(Optional) USB console cable

6	Two 19-inch mounting brackets	14	(Optional) StackWise-480/1T cable (0.5-meter, 1-meter, or 3-meter)
7	Four number-12 pan-head screws	15	(Optional) StackPower cable (0.3-meter or 1.5-meter)
8	Four number-10 pan-head screws	16	(Optional) StackWise-320 cable



Specification

Parameter	Specification
Model	C9300L-48P-4G-A
Chassis	1RU fixed form factor
CPU	Quad-core x86, 2.4 GHz
DRAM	8 GB
Flash Memory	16 GB
Switching Capacity	104 Gbps standalone; 424 Gbps with StackWise-320
Forwarding Rate	77.38 Mpps standalone; 315.48 Mpps (stacked)
MAC Addresses	32,000

Parameter	Specification
IPv4 Routes	32,000 (24,000 direct + 8,000 indirect)
IPv6 Routes	16,000
Multicast Scale	8,000 entries
ACL Scale	5,120 entries
QoS Scale	5,120 entries
Packet Buffer	16 MB
VLAN IDs	4,094
SVIs	1,000
Downlink Ports	48 × 1 Gbps RJ-45 PoE+ (up to 30 W/port)
Uplink Ports	4 × 1 Gbps SFP (fixed)
PoE Budget (Default)	505 W (with PWR-C1-715WAC-P)
UPOE/UPOE+	Not supported (PoE+ only)
Stacking Bandwidth	320 Gbps (StackWise-320)
StackPower	Up to 8 units (3,200 W aggregate pool)
Power Supply	1 × PWR-C1-715WAC-P (default); optional PWR-C1-1100WAC-P
Fans	3 × field-replaceable (N+1 redundant)
Operating Temp	-5 °C to +45 °C
Dimensions (H × W × D)	4.4 × 44.5 × 40.9 cm
Weight	15.46 lb (7.03 kg) with default PSU
MTBF	309,020 hrs
Software	Cisco IOS XE 16.11.1b or later (Network Advantage)
Security	MACsec-128, 802.1X, Trust Anchor, Encrypted Traffic Analytics
Stack Modules	C9300L-STACK-KIT
Management	CLI, WebUI, Cisco DNA Center, Meraki Dashboard
IPv6 Support	Wire-rate hardware forwarding
Energy Efficiency	Energy Efficient Ethernet (EEE), per-port power limits

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