



C9300L-48PF-4G-A DataSheet

C9300L-48PF-4G-A: 48 × 1 Gbps PoE+ ports (890 W default), 4 × 1 Gbps SFP uplinks, Network Advantage license, 320 Gbps stacking; ideal for PoE-heavy enterprise access. (≤160 chars)

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C9300L-48PF-4G-A Description

The Cisco Catalyst 9300L-48PF-4G-A is engineered for enterprise access deployments demanding the highest PoE capacity alongside advanced Layer 3 features. It provides 48 × 1 Gbps RJ-45 PoE+ ports, each capable of delivering up to 30 W, powered by a default 1 100 W AC power supply that yields 890 W of available PoE by design (expandable to 1 240 W with a secondary 1 100 W AC PSU). Four fixed 1 Gbps SFP uplinks connect to distribution or core switches. Running Cisco IOS XE with the Network Advantage license, the switch supports full Layer 3 routing protocols (OSPF, EIGRP, BGP), VRF-Lite, MPLS, and PIM-SM multicast, along with hardware ACLs and QoS. StackWise-320 technology enables up to 320 Gbps of stacking bandwidth across eight switches, simplifying management by presenting the entire stack as a single logical device. Security features include MACsec-128 encryption, 802.1X authentication, TrustSec, DHCP snooping, and Dynamic ARP Inspection. Management can be performed via on-box CLI/WebUI or centralized through Cisco DNA Center. This model is ideal for PoE-intensive environments—such as IP-camera infrastructures, wireless AP aggregations, and digital signage deployments—where advanced routing and high PoE capacity are critical.

Quick Spec

Field	Description
C9300L	Cisco Catalyst 9300 fixed-uplink (non-modular) series
48PF	48 × 1 Gbps RJ-45 PoE+ ports (full PoE budget)
4G	4 × 1 Gbps SFP fixed uplink ports

A	Network Advantage license (advanced Layer 3 feature set)
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Key Features

Product Comparison

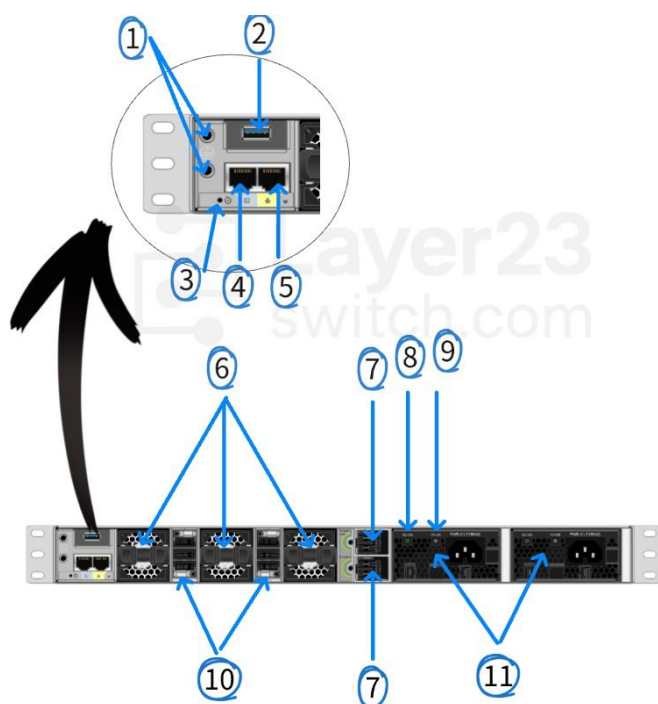
Feature	C9300L-48PF-4G-A	C9300L-48P-4G-A	C9300L-48PF-4X-A
License	Network Advantage	Network Advantage	Network Advantage
Switching Capacity	104 Gbps (424 Gbps stack)	104 Gbps (424 Gbps stack)	176 Gbps (496 Gbps stack)
Forwarding Rate	77.38 Mpps (315.48 Mpps stk)	77.38 Mpps (315.48 Mpps stk)	130.95 Mpps (369.05 Mpps stk)
Downlink Ports	48 × 1 Gbps PoE+ (30 W each)	48 × 1 Gbps PoE+ (30 W each)	48 × 1 Gbps PoE+ (30 W each)
PoE Budget (Default)	890 W	505 W	890 W
Uplink Ports	4 × 1 Gbps SFP	4 × 1 Gbps SFP	4 × 10 Gbps SFP+
Stacking Bandwidth	320 Gbps	320 Gbps	320 Gbps
Primary PSU	1 100 W AC	715 W AC	1 100 W AC

C9300L-48PF-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
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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	-	-

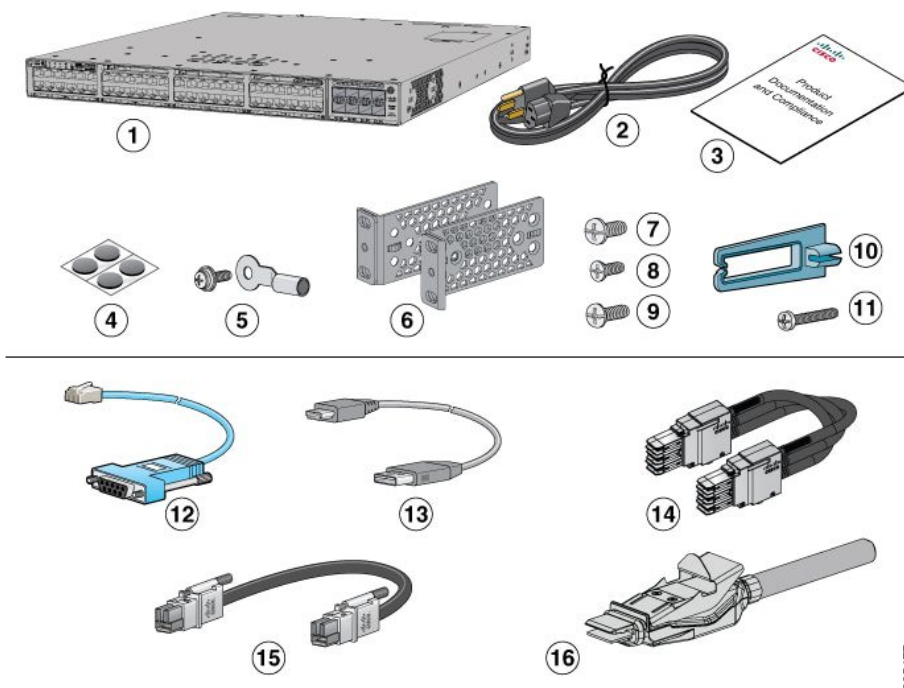


Components Delivered in the Shipping Box

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



385477

Specification

Parameter	Specification
Model	C9300L-48PF-4G-A
Chassis	1RU fixed form factor
CPU	Quad-core x86, 2.4 GHz
DRAM	8 GB
Flash Memory	16 GB

Parameter	Specification
Switching Capacity	104 Gbps (standalone); 424 Gbps with StackWise-320
Forwarding Rate	77.38 Mpps (standalone); 315.48 Mpps (stacked)
MAC Addresses	32 000
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 (Gigabit Ethernet models)
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)	890 W (with PWR-C1-1100WAC-P)
PoE Upgrade Budget	1 240 W (with secondary 1 100 W PSU); 1 440 W*
Stacking Bandwidth	320 Gbps (StackWise-320)
StackPower (Aggregate)	Not supported (Power pooling not available on C9300L SKUs)
Primary Power Supply	PWR-C1-1100WAC-P (default)
Fans	3 × field-replaceable (N+1 redundant)
Operating Temperature	-5 °C to +45 °C
Dimensions (H × W × D)	4.4 × 44.5 × 40.9 cm (chassis only); 44.9 cm w/ PSU; 48.8 cm max
Weight (w/ PSU)	15.48 lb (7.03 kg)
MTBF	303 660 hrs
Software	Cisco IOS XE 16.11.1b or later (Network Advantage)
Security	MACsec-128, 802.1X, TrustSec, DHCP Snooping, Dynamic ARP Inspection
Stacking Bandwidth	320 Gbps (StackWise-320)
Management	CLI, WebUI, Cisco DNA Center
IPv6 Support	Wire-rate hardware forwarding (16 000 routes)

Parameter	Specification
Energy Efficiency	IEEE 802.3az EEE; per-port power limits
FNF Scale	64 000 flows (48-port Gigabit)
Jumbo Frames	9 198 bytes
PVST Instances	300

* PoE power limited by port count and port rating;

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