



C9300L-48PF-4X-A DataSheet

Cisco C9300L-48PF-4X-A: 48 × PoE+ (890 W), 4 × 10 Gbps SFP+ uplinks, 320 Gbps stacking, IOS XE Advantage; perfect for PoE-heavy, high-density campus access. (≤160 chars)

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C9300L-48PF-4X-A Description

The Cisco Catalyst 9300L-48PF-4X-A delivers 48 Gigabit RJ-45 PoE+ ports (30 W each) with an 890 W default PoE budget powered by the integrated 1100 W AC power supply. Four fixed 10 Gbps/1 Gbps SFP+ uplinks provide high-speed connectivity to distribution or core. Cisco IOS XE with the Network Advantage license supports full Layer 3 routing (OSPF, EIGRP, BGP, VRF-Lite, MPLS, PIM-SM multicast), hardware ACLs, and advanced QoS. StackWise-320 technology offers up to 320 Gbps of stacking bandwidth across up to eight switches, presenting the stack as a single logical device for simplified management. Security features include MACsec-128 encryption, 802.1X authentication, TrustSec, DHCP Snooping, and Dynamic ARP Inspection. Ideal for PoE-intensive edge deployments—such as IP surveillance, Wi-Fi 6 AP aggregation, and IoT edge—this switch balances high PoE capacity, advanced routing, and resilient stacking.

Model Meaning

Field	Meaning
C9300L	Cisco Catalyst 9300 fixed-uplink (non-modular) series
48PF	48 × 1 Gbps RJ-45 PoE+ ports (full-budget PoE+)
4X	4 × 10 Gbps/1 Gbps SFP+ fixed uplink ports
A	Network Advantage license (advanced Layer 3 features)

Key Features

Product Comparison

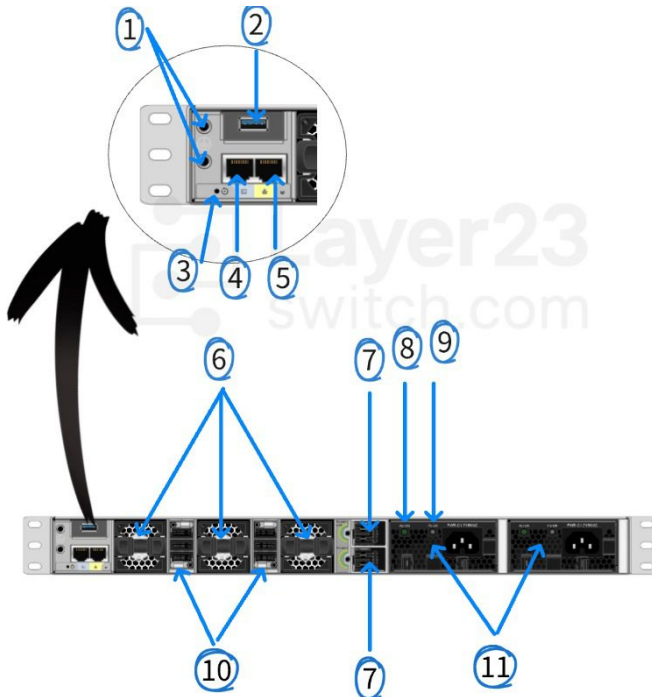
Feature	C9300L-48PF-4X-A	C9300L-48P-4X-A	C9300L-48PF-4G-A
License	Network Advantage	Network Advantage	Network Advantage
Switching Capacity	176 Gbps (496 Gbps stack)	176 Gbps (496 Gbps stack)	104 Gbps (424 Gbps stack)
Forwarding Rate	130.95 Mpps (369.05 Mpps stk)	130.95 Mpps (369.05 Mpps stk)	77.38 Mpps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

C9300L-48PF-4X-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	-	-

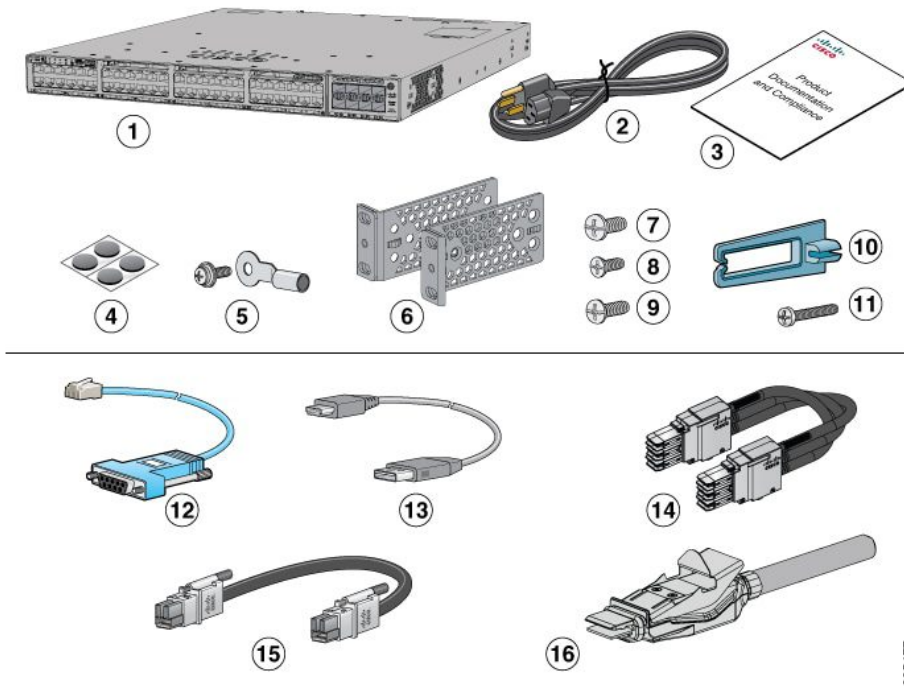


Components Delivered in the Shipping Box

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-48PF-4X-A
Chassis	1RU fixed-uplink, all-metal construction
CPU	Quad-core x86, 2.4 GHz
DRAM	8 GB
Flash Memory	16 GB
Switching Capacity	176 Gbps standalone; 496 Gbps with StackWise-320
Forwarding Rate	130.95 Mpps standalone; 369.05 Mpps (stacked)
MAC Addresses	32,000

Parameter	Specification
IPv4 Routes	32,000 (24,000 direct + 8,000 indirect)
IPv6 Routes	16,000
Multicast Routing Scale	8,000 entries
ACL Scale	5,120 entries
QoS Scale	5,120 entries
Packet Buffer	16 MB (48-port Gigabit models)
VLAN IDs	4,094
SVIs	1,000
Downlink Ports	48 × 1 Gbps RJ-45 PoE+ (up to 30 W/port)
Uplink Ports	4 × 10 Gbps/1 Gbps SFP+ (fixed)
Primary Power Supply	PWR-C1-1100WAC-P (1100 W AC)
Default PoE Budget	890 W (with 1100 W AC PSU)
PoE Upgrade Budget	1240 W (with secondary 600 W AC PSU); 1440 W (with 715 W DC or 1000 W AC)
Stacking Bandwidth	320 Gbps (StackWise-320)
StackPower (Aggregate)	Not supported on C9300L SKUs
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	298,880 hrs
Software	Cisco IOS XE 16.11.1b or later (Network Advantage)
Security	MACsec-128, 802.1X, TrustSec, DHCP Snooping, Dynamic ARP Inspection
Management	CLI, WebUI, Cisco DNA Center
IPv6 Support	Wire-rate hardware forwarding (16,000 routes)
Energy Efficiency	IEEE 802.3az EEE; per-port power limits
FNF Scale	64,000 flows on 48-port Gigabit models
Jumbo Frames	9,198 bytes
PVST Instances	300

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