



## C9300L-48PF-4X-E DataSheet

Cisco C9300L-48PF-4X-E: 48 × PoE+ (890 W default), 4 × 10 Gbps SFP+ uplinks, 320 Gbps stacking, IOS XE Essentials; ideal for PoE-heavy enterprise edge. (≤160 chars)

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### C9300L-48PF-4X-E Description

The Cisco Catalyst 9300L-48PF-4X-E is designed for environments demanding maximum PoE capacity alongside essential Layer 2/3 functionality. It provides forty-eight 1 Gbps RJ-45 PoE+ ports (30 W max per port) with an out-of-box 890 W PoE budget thanks to the integrated 1100 W AC power supply (PWR-C1-1100WAC-P). Four fixed 10 Gbps/1 Gbps SFP+ uplinks deliver high-speed connectivity to distribution or core layers. Running Cisco IOS XE with the Network Essentials license, it supports wire-speed Layer 2 switching, static/RIP routing, hardware ACLs, basic QoS, and essential security features (802.1X, DHCP Snooping, Dynamic ARP Inspection, TrustSec). StackWise-320 technology provides up to 320 Gbps of stacking bandwidth across eight switches, unifying management as a single logical unit. This model is ideal for PoE-heavy deployments—such as IP surveillance, wireless AP aggregation, and IoT edge—where robust performance, high PoE power, and reliable stacking are required.

### Quick Specs

Parameter	Specification
Model	C9300L-48PF-4X-E
Switching Capacity	176 Gbps standalone; 496 Gbps (8-member StackWise-320)
Forwarding Rate	130.95 Mpps standalone; 369.05 Mpps (stacked)
Downlink Ports	48 × 1 Gbps RJ-45 PoE+ (IEEE 802.3at, 30 W/port)

<b>Uplink Ports</b>	4 × 10 Gbps/1 Gbps SFP+ (fixed)
<b>Stacking Bandwidth</b>	320 Gbps (StackWise-320)
<b>Primary Power Supply</b>	PWR-C1-1100WAC-P (1100 W AC)
<b>Default PoE Budget</b>	890 W (with 1 100 W AC PSU)
<b>Memory / Flash</b>	8 GB DRAM; 16 GB flash
<b>License</b>	Network Essentials

## Key Features

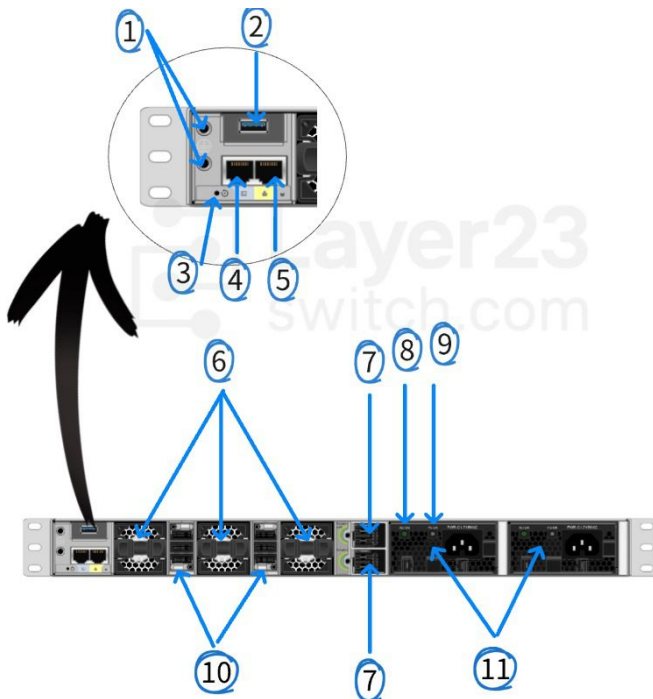
## Product Comparison

Feature	C9300L-48PF-4X-E	<a href="#">C9300L-48P-4X-E</a>	<a href="#">C9300L-48PF-4G-E</a>
<b>License</b>	Network Essentials	Network Essentials	Network Essentials
<b>Switching Capacity</b>	176 Gbps (496 Gbps stk)	176 Gbps (496 Gbps stk)	104 Gbps (424 Gbps stk)
<b>Forwarding Rate</b>	130.95 Mpps (369.05 Mpps stk)	130.95 Mpps (369.05 Mpps stk)	77.38 Mpps (315.48 Mpps stk)
<b>Downlink Ports</b>	48 × PoE+ (30 W each)	48 × PoE+ (30 W each)	48 × 1 Gbps PoE+ (30 W each)
<b>Default PoE Budget</b>	890 W	505 W	890 W
<b>Uplink Ports</b>	4 × 10 Gbps SFP+	4 × 10 Gbps SFP+	4 × 1 Gbps SFP
<b>Primary PSU</b>	1 100 W AC	715 W AC	1 100 W AC
<b>Stacking Bandwidth</b>	320 Gbps	320 Gbps	320 Gbps

## C9300L-48PF-4X-E Switch Rear Panel

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

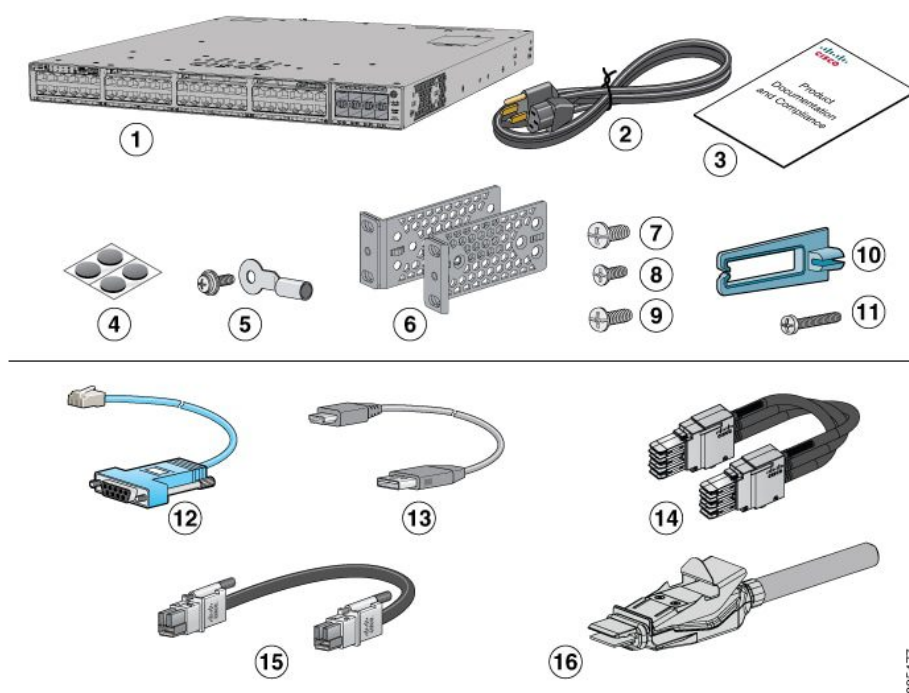
1	Ground connectors	7	StackPower connectors
2	USB3.0-SSD port	8	AC OK (input) status LED
3	BEACON LED	9	PS OK (output) status LED
4	CONSOLE (RJ-45 console port)	10	StackWise-480 port connectors
5	MGMT (RJ-45 10/100/1000 management port)	11	Power supply modules
6	Fan modules	-	-



## 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 <sup>1</sup> (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



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## Specification

Parameter	Specification
Model	C9300L-48PF-4X-E
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
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

Parameter	Specification
Software	Cisco IOS XE 16.11.1b or later (Network Essentials)
Security	802.1X, DHCP Snooping, Dynamic ARP Inspection, TrustSec
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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