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C9300L-48P-4G-E DataSheet

Catalyst C9300L-48P-4G-E: 48 PoE+ ports, 4×1 Gbps SFP uplinks, 320 Gbps stacking, Cisco IOS XE with Essentials license; ideal for secure, scalable enterprise access.

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C9300L-48P-4G-E Description

The Catalyst 9300L-48P-4G-E is designed for enterprise access deployments requiring robust PoE+ power, advanced security, and unified management. Running Cisco IOS XE with Network Essentials, it supports Layer 2/3 forwarding, hardware ACLs, and QoS. With up to 320 Gbps of StackWise-320 stacking bandwidth, it scales to large campus deployments. An embedded 715 W AC power supply delivers up to 505 W for PoE+. Four 1 Gbps SFP uplinks connect to distribution layers, while 48 Gigabit PoE+ downlinks power IP phones, wireless APs, and cameras. Management is unified via Cisco DNA Center or on-box CLI/WebUI.

Quick Specs

Parameter	Specification
Model	C9300L-48P-4G-E
Switching Capacity	104 Gbps (standalone); 424 Gbps (8-member stack)
Forwarding Rate	77.38 Mpps (non-stacked); 315.48 Mpps (stacked)
Downlink Ports	48 × 1 Gbps RJ-45 (PoE+ up to 30 W/port)
Uplink Ports	4 × 1 Gbps SFP fixed
Stacking Bandwidth	320 Gbps (StackWise-320)
PoE Budget (Default)	505 W (with PWR-C1-715WAC-P)

Memory / Flash	8 GB DRAM, 16 GB flash
License	Network Essentials (E)

Key Features

Product Comparison

Feature	C9300L-48P-4G-E	C9300L-24P-4G-E	C9300L-48T-4G-E
Switching Capacity	104 Gbps (424 Gbps stack)	56 Gbps (376 Gbps stack)	104 Gbps (424 Gbps stack)
Forwarding Rate	77.38 Mpps (315.48 Mpps stk)	41.66 Mpps (279.76 Mpps stk)	77.38 Mpps (315.48 Mpps stk)
Downlink Ports	48 × 1 Gbps PoE+	24 × 1 Gbps PoE+	48 × 1 Gbps (no PoE)
PoE Budget	505 W (default)	370 W (default)	N/A
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	350 W AC
License (E)	Network Essentials	Network Essentials	Network Essentials

C9300L-48P-4G-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	–	–
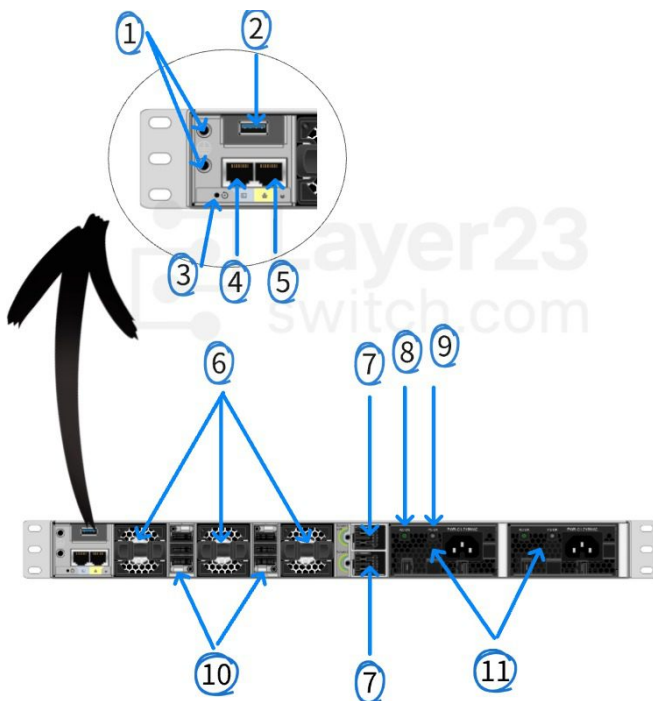
Components Delivered in the Shipping Box

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[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
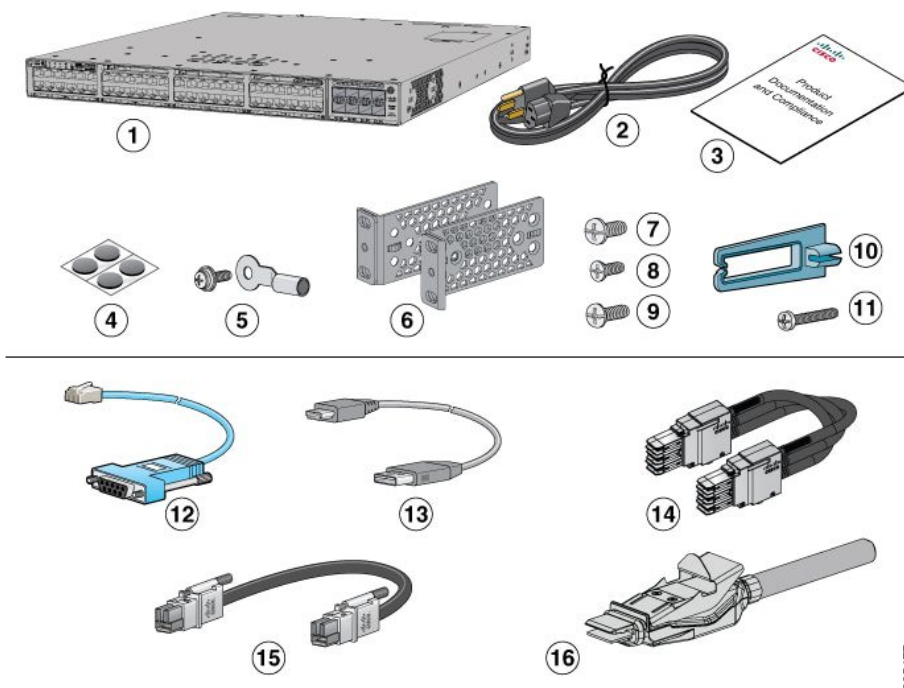
Specification

Parameter	Specification
Model	C9300L-48P-4G-E
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 (8-member)
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
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 (PWR-C1-715WAC-P)
UPOE/UPOE+	Not supported (PoE+ only)
Stacking Bandwidth	320 Gbps (StackWise-320)
StackPower	Up to 8 units (3200 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 Essentials)
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

Parameter	Specification
Energy Efficiency	Energy Efficient Ethernet (EEE), Per-port power limits

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