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# C9300L-48P-4X-E DataSheet

C9300L-48P-4X-E: 48 PoE+ ports, 4×10 Gbps SFP+ uplinks, 320 Gbps stacking, Cisco IOS XE Essentials; ideal for scalable, secure enterprise access. (≤160 characters)

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

   The Cisco Catalyst 9300L-48P-4X-E is designed for branch and campus access deployments requiring high PoE power and multigigabit uplink bandwidth. It offers 48 Gigabit PoE+ (IEEE 802.3at) downlink ports (30 W per port) powered by a 715 W AC power supply, providing up to 505 W PoE budget by default. Four fixed 10 Gbps SFP+ uplinks enable high-speed connectivity to distribution or core layers. Running Cisco IOS XE with the Network Essentials license, it supports Layer 2/3 switching, hardware-based ACLs, QoS, and basic routing protocols (static, RIP). StackWise-320 technology provides up to 320 Gbps of stacking bandwidth across eight switches, allowing unified management and high availability. Security features include 802.1X, TrustSec, DHCP snooping, and ARP inspection. Management can be performed via on-box CLI or WebUI, as well as Cisco DNA Center for centralized policy and automation.

## Quick Specs

| Parameter | Specification |
|---|---|
| Model | C9300L-48P-4X-E |
| Switching Capacity | 176 Gbps (single); 496 Gbps (8-member stack) |
| Forwarding Rate | 130.95 Mpps (single); 369.05 Mpps (stacked) |
| Downlink Ports | 48 × 1 Gbps RJ-45 PoE+ (up to 30 W/port) |
| Uplink Ports | 4 × 10 Gbps/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 |

## Key Features

## Product Comparison

| Feature | C9300L-48P-4X-E | C9300L-48P-4G-E | C9300L-24P-4X-E |
|---|---|---|---|
| **Switching Capacity** | 176 Gbps (496 Gbps stack) | 104 Gbps (424 Gbps stack) | 128 Gbps (448 Gbps stack) |
| **Forwarding Rate** | 130.95 Mpps (369.05 Mpps stk) | 77.38 Mpps (315.48 Mpps stk) | 95.23 Mpps (333.33 Mpps stk) |
| **Downlink Ports** | 48 × PoE+ (30 W/port) | 48 × PoE+ (30 W/port) | 24 × PoE+ (30 W/port) |
| **Uplink Ports** | 4 × 10 Gbps SFP+ | 4 × 1 Gbps SFP | 4 × 10 Gbps SFP+ |
| **PoE Budget (Default)** | 505 W | 505 W | 505 W |
| **Stacking Bandwidth** | 320 Gbps | 320 Gbps | 320 Gbps |
| **Default PSU** | 715 W AC | 715 W AC | 715 W AC |
| **License (E)** | Network Essentials | Network Essentials | Network Essentials |

## C9300L-48P-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 | – | – |
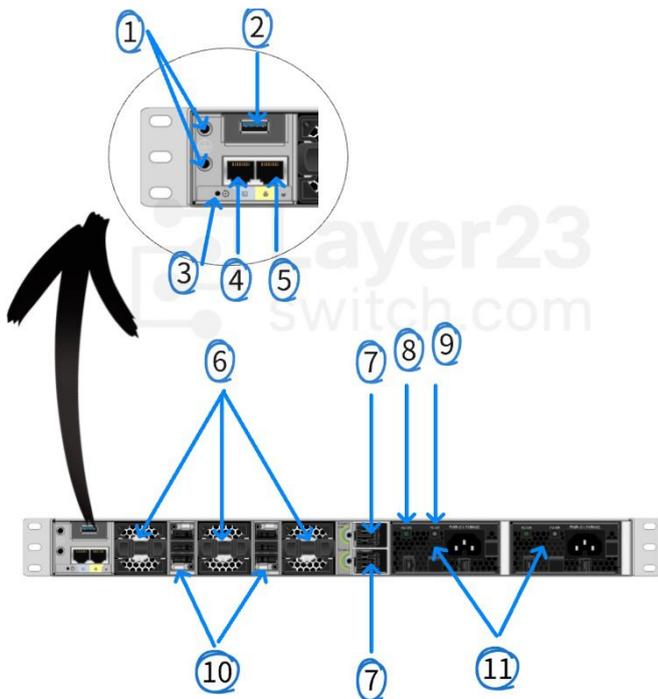


## Components Delivered in the Shipping Box

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[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 |
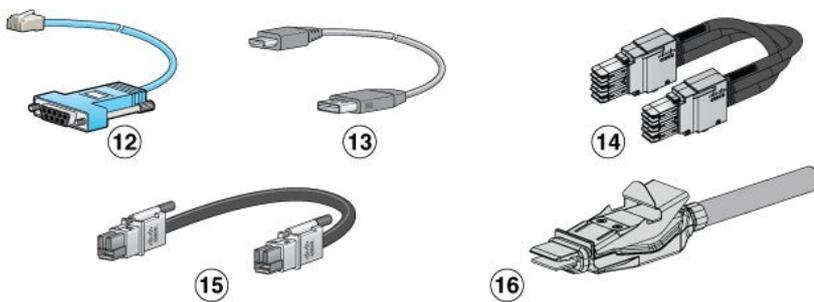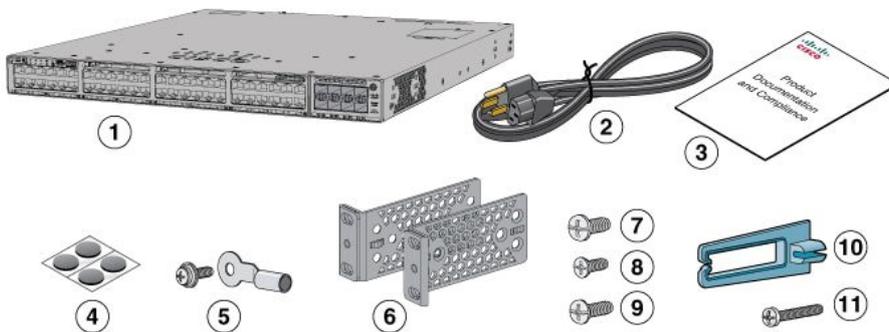


## Specification

| Parameter | Specification |
|---|---|
| Model | C9300L-48P-4X-E |
| Chassis | 1RU fixed form factor |
| 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 (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) |
| PoE Budget (Default) | 505 W (with PWR-C1-715WAC-P) |
| PoE Upgrade Budget | 855 W (with secondary 715 W PSU); 1220 W (with 1100 W PSU) |
| Stacking Bandwidth | 320 Gbps (StackWise-320) |
| StackPower (Aggregate) | Up to 3200 W across 8 units |
| Primary Power Supply | PWR-C1-715WAC-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 | 15.46 lb (7.03 kg) w/ default PSU |
| MTBF | 309 020 hrs |

| Parameter | Specification |
|---|---|
| Software | Cisco IOS XE 16.11.1b or later (Network Essentials) |
| Security | 802.1X, TrustSec, DHCP Snooping, Dynamic ARP Inspection |
| Stack Modules | C9300L-STACK-KIT |
| 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 (48-port Gigabit) |
| Jumbo Frames | 9 198 bytes |
| PVST Instances | 300 |

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