

C9300-48S-E DataSheet



Cisco C9300-48S-E - 48 × 1 Gbps SFP fiber ports, 256 Gbps switching (736 Gbps stacked), StackWise-480, Network Essentials, ideal for fiber access.

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C9300-48S-E Description



Cisco Catalyst C9300-48S-E delivers 48 fixed 1 Gbps SFP ports (no PoE) powered by a 715 W AC supply. It provides 256 Gbps of switching capacity (736 Gbps switching capacity with stacking) and up to 190.47 Mpps (553.42 Mpps stacked). Running IOS XE with Network Essentials, it supports VLANs, static/EIGRP/OSPF Lite, basic QoS, and ACLs. Suitable for fiber-centric campus closets and branch backbones, its UADP 2.0 ASIC ensures low-latency forwarding and hardware ACL acceleration.

Quick Specs

Parameter	C9300-48S-E
Switching Capacity	256 Gbps single-unit / 736 Gbps switching capacity with stacking
Forwarding Rate	190.47 Mpps single / 553.42 Mpps stacked

Downlink Ports	48 × 1 Gbps SFP (fiber-only)
Uplink Module Slot	1 × Field-replaceable modular slot (1 GbE/10 GbE/25 GbE/40 GbE/100 GbE)
PoE Support	None
Default Power Supply	715 W AC (system-only)
DRAM / Flash	8 GB DRAM / 16 GB Flash
Stack Switching Capacity	736 Gbps with StackWise-480 (up to 8 members)

Key Features

Product Comparison

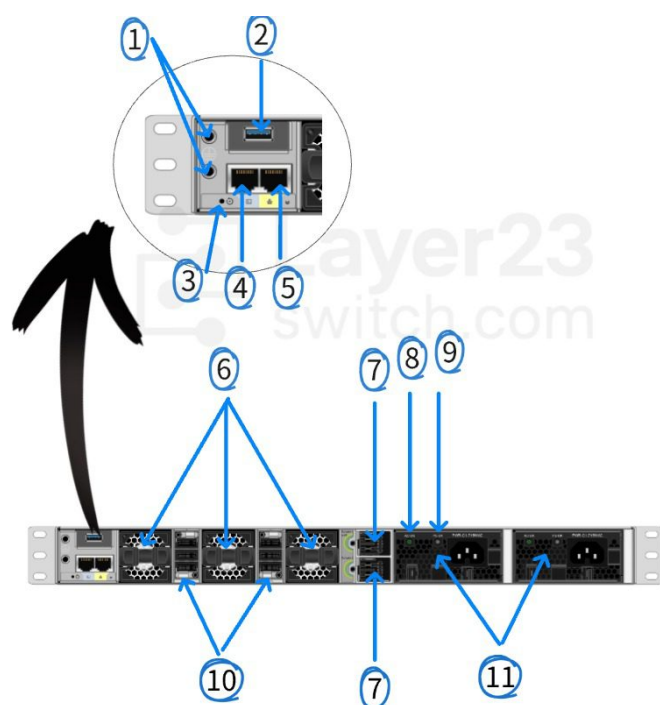
Parameter	C9300-48S-E	C9300-48S-A	C9300-48P-E	C9300-24S-E
Software License	Network Essentials	Network Advantage	Network Essentials	Network Essentials
Downlink Ports	48 × 1 Gbps SFP	48 × 1 Gbps SFP	48 × 1 Gbps PoE+	24 × 1 Gbps SFP
PoE Support	None	None	Yes (802.3at PoE+)	None
Switching Capacity	256 Gbps / 736 Gbps switching capacity with stacking	256 Gbps / 736 Gbps switching capacity with stacking	256 Gbps / 736 Gbps switching capacity with stacking	208 Gbps / 688 Gbps switching capacity with stacking
Forwarding Rate	190.47 Mpps / 553.42 Mpps (stacked)	190.47 Mpps / 553.42 Mpps (stacked)	190.47 Mpps / 553.42 Mpps (stacked)	154.76 Mpps / 511.90 Mpps (stacked)
Uplink Module Slot	1 × modular slot (1/10/25/40/100 GbE)	1 × modular slot (1/10/25/40/100 GbE)	1 × modular slot (1/10/25/40/100 GbE)	1 × modular slot (1/10/25/40/100 GbE)

PoE Budget (Default / Max)	N/A / N/A	N/A / N/A	437 W / 1440 W (with upgrade PSU)	N/A / N/A
MACsec Support	Yes (hardware-accelerated)	Yes (hardware-accelerated)	No	Yes (hardware-accelerated)
Default Power Supply	715 W AC	715 W AC	715 W AC	715 W AC

C9300-48S-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	-	-

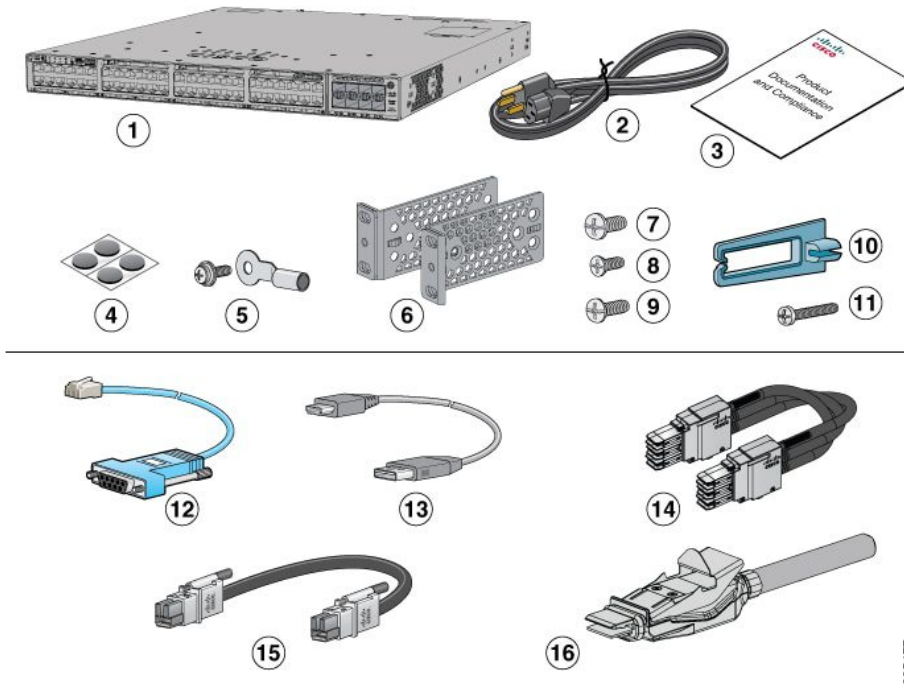


Components Delivered in the Shipping Box

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
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Specification

Parameter	C9300-48S-E Specification
Switching Capacity	256 Gbps single unit / 736 Gbps switching capacity with stacking
Forwarding Rate	190.47 Mpps single / 553.42 Mpps stacked
Downlink Ports	48 × 10/100/1000 Mbps SFP (fiber-only)
Uplink Module Slot	1 × field-replaceable modular slot (1 GbE/10 GbE/25 GbE/40 GbE/100 GbE)
PoE Support	None
Default Power Supply	715 W AC (system-only)
Stacking Switching Capacity	736 Gbps with StackWise-480 (up to 8 members)
MAC Address Table	32,000 entries
IPv4 Routes	32,000 (24k direct / 8k indirect)
IPv6 Routes	16,000
VLAN IDs Supported	4,094

Parameter	C9300-48S-E Specification
ACL Entries	5,120
QoS Entries	5,120
Packet Buffer Size	16 MB per 48-port model
DRAM	8 GB DDR4
Flash	16 GB
MTBF	281,920 hours
Dimensions (H x W x D)	1.73 x 17.5 x 16.1 in (4.4 x 44.5 x 40.9 cm)
Weight	17.32 lb / 7.86 kg
Operating Temperature	-5 °C to 45 °C
Relative Humidity	5 % to 90 % non-condensing
Acoustic (Idle/Max)	47 dB / 50 dB @ 25 °C
Compliance	IEEE 802.3, 802.3u, IEEE 802.1X, RoHS, FCC Class A, CISPR 32 Class A
Security Features	MACsec-128, 802.1X, TrustSec, Dynamic ARP Inspection
Management	CLI, SNMPv3, NETCONF, RESTCONF, Cisco DNA Center integration
Warranty	Limited lifetime - Next Business Day Replacement

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