



C9300-48S-A DataSheet

Cisco C9300-48S-A - 48 × 1 Gbps SFP fiber ports, modular uplinks, 256 Gbps switching (736 Gbps stacked), StackWise-480, Network Advantage, advanced L3 & VXLAN.

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C9300-48S-A Description



Cisco Catalyst C9300-48S-A is a high-performance, fiber-centric access switch designed for enterprise campus and branch networks. It features 48 fixed 1 Gbps SFP downlink ports with no PoE, powered by a default 715 W AC power supply for system operation. The switch delivers 256 Gbps of wire-speed switching capacity and, when stacked via StackWise-480, provides 736 Gbps switching capacity with stacking, forwarding up to 190.47 Mpps (553.42 Mpps when stacked) for latency-sensitive traffic. A front-slot accepts a field-replaceable network module for 1 GbE, 10 GbE, 25 GbE, 40 GbE, or 100 GbE uplinks, allowing seamless uplink flexibility. Running Cisco IOS XE with the Network Advantage image, the C9300-48S-A supports full Layer 3 routing (OSPF, EIGRP, BGP, VRF-Lite), VXLAN-based segmentation, TrustSec policy enforcement, and hardware-based MACsec-128 encryption. Its UADP 2.0 ASIC provides deep buffers, hardware ACL acceleration, and Flexible NetFlow for advanced telemetry. Ideal for fiber-connected campus closets, data center top-of-rack aggregation, or high-density branch backbones, this model balances fiber connectivity, advanced security, and programmability.

Quick Specs

Parameter	C9300-48S-A
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 × modular (1 G/10 G/25 G/40 G/100 G)
PoE Support	None
Default Power Supply	715 W AC (system-only)
DRAM / Flash	8 GB DRAM / 16 GB Flash
Stack Bandwidth	736 Gbps switching capacity with StackWise-480

Key Features

Product Comparison

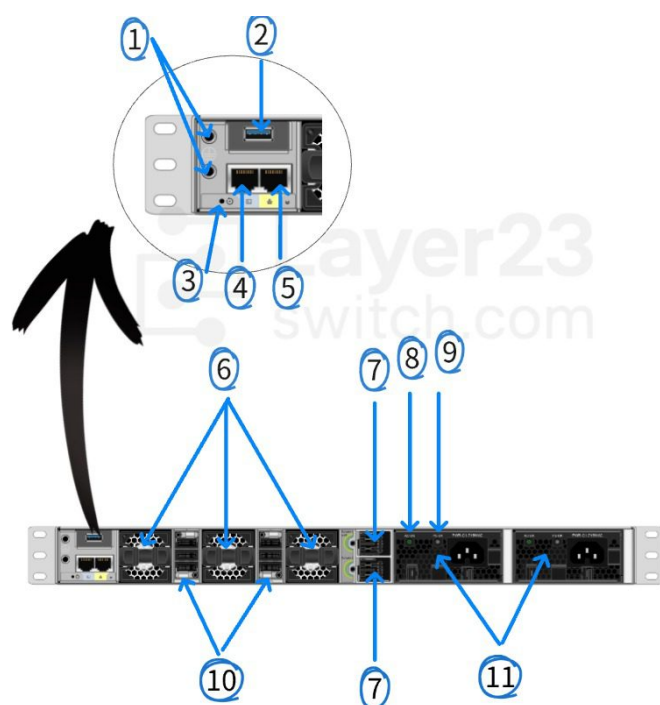
Parameter	C9300-48S-A	C9300-48P-A	C9300-48H-A	C9300-24S-A
Software License	Network Advantage	Network Advantage	Network Advantage	Network Advantage
Downlink Ports	48 × 1 Gbps SFP (fiber)	48 × 1 Gbps PoE+ (30 W each)	48 × 1 Gbps UPOE+ (60 W each)	24 × 1 Gbps SFP (fiber)
PoE Support	None	Yes (IEEE 802.3at PoE+)	Yes (IEEE 802.3bt UPOE)	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 (1 G/10 G/25 G/40 G/100 G)	1 × modular (1 G/10 G/25 G/40 G/100 G)	1 × modular (1 G/10 G/25 G/40 G/100 G)	1 × modular (1 G/10 G/25 G/40 G/100 G)
PoE Budget (Default / Max)	N/A / N/A	437 W (with 715 W PSU) / 1440 W (with upgrade PSU)	822 W (with 1100 W PSU) / 1800 W (with upgrade PSU)	N/A / N/A
MACsec Support	Yes (hardware-accelerated)	No	Yes (hardware-accelerated)	Yes (hardware-accelerated)
Default Power Supply	715 W AC	715 W AC	1100 W AC	715 W AC

C9300-48S-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	-	-

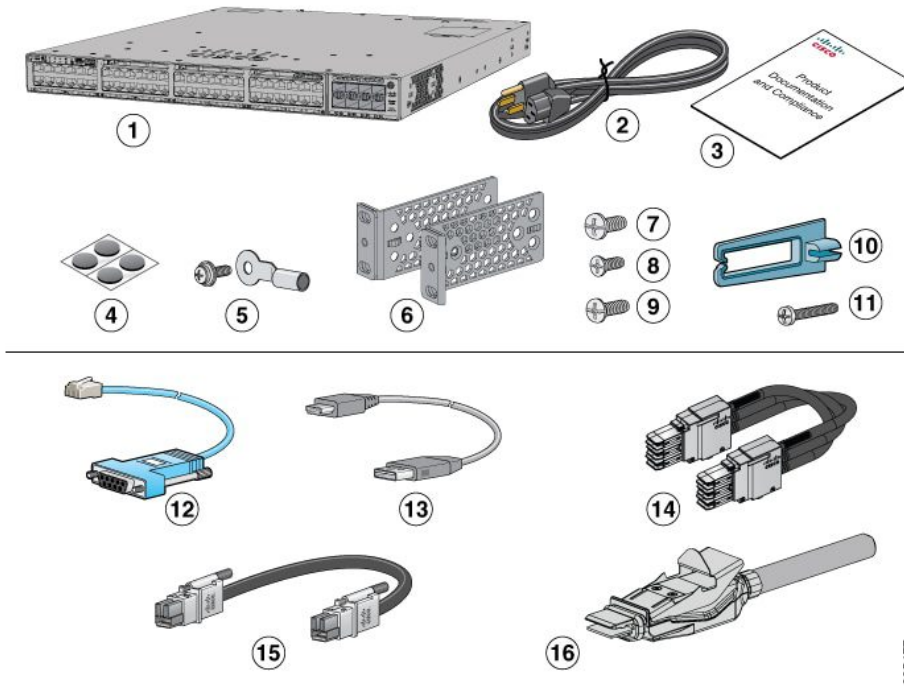


Components Delivered in the Shipping Box

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
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Specification

Parameter	C9300-48S-A 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 (supports 1 G/10 G/25 G/40 G/100 G optics)
Default Power Supply	715 W AC (system-only, no PoE)
PoE Support	None
Stacking Switching Capacity	736 Gbps (StackWise-480, up to 8 members)
MAC Address Table	32,000 entries
IPv4 Routes	32,000 (24k direct / 8k indirect)
IPv6 Routes	16,000
DRAM	8 GB DDR4

Parameter	C9300-48S-A Specification
Flash	16 GB
VLAN IDs Supported	4,094
ACL Entries	5,120
QoS Entries	5,120
Packet Buffer Size	16 MB per 48-port Gigabit model
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 802.1X, 802.3, 802.3u, 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
Warranty	Limited Lifetime - Next Business Day Replacement

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