



C9300-48UN-E DataSheet

Cisco C9300-48UN-E - 48 × 5 Gbps multigigabit UPOE ports, modular uplinks, 256 Gbps switching (1120 Gbps stacked), StackWise-480, Network Essentials.

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C9300-48UN-E Description

Cisco Catalyst C9300-48UN-E is a fiber-ready, high-density access switch with 48 multigigabit UPOE ports (5G/2.5G/1G/100M, up to 60 W per port) powered by a default 1100 W AC power supply. It delivers 256 Gbps of switching capacity and, when stacked via StackWise-480, achieves 1120 Gbps switching capacity with stacking, forwarding up to 476.19 Mpps (833.33 Mpps when stacked). Running IOS XE with Network Essentials, it supports VLANs, static/EIGRP/OSPF Lite routing, basic QoS, and hardware ACL acceleration. The UADP 2.0 ASIC ensures low latency and wire-speed performance. Ideal for fiber-connected campus closets, branch backbones, and PoE-powered device aggregation, the C9300-48UN-E combines high throughput, UPOE power, and foundational Layer 3 features.

Quick Specs

Parameter	C9300-48UN-E Specification
Switching Capacity	256 Gbps single-unit / 1120 Gbps switching capacity with stacking
Forwarding Rate	476.19 Mpps single / 833.33 Mpps stacked
Downlink Ports	48 × 5 Gbps (5G/2.5G/1G/100M) UPOE (IEEE 802.3bt type 3)
PoE Budget (Default / Max)	645 W / 2545 W (with dual 1100 W PSUs)
Uplink Module Slot	1 × Modular slot (supports 1 GbE, 10 GbE, 25 GbE, 40 GbE, or 100 GbE optics)

Stack Switching Capacity	1120 Gbps switching capacity with StackWise-480 (up to 8 members)
DRAM / Flash	8 GB DRAM / 16 GB Flash
Default Power Supply	1100 W AC (PWR-C1-1100WAC-P)

Key Features

Product Comparison

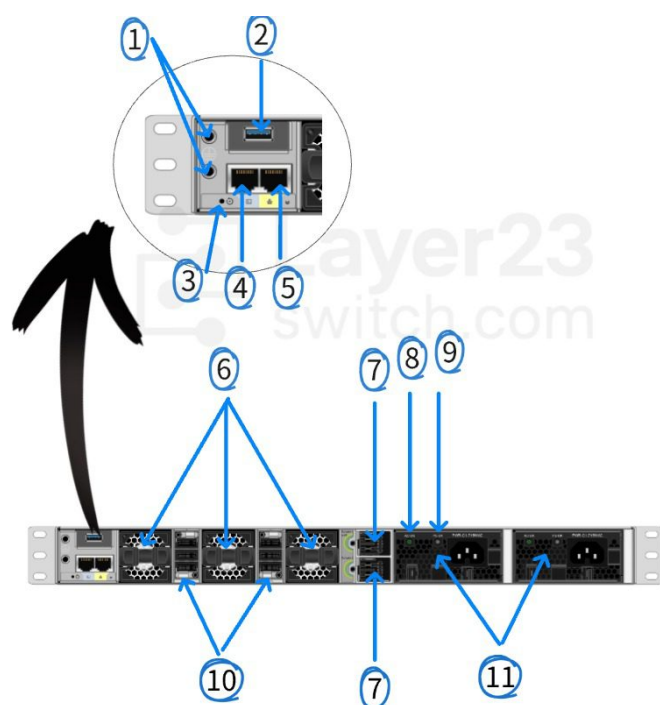
Parameter	C9300-48UN-E	C9300-48UN-A	C9300-48P-E	C9300-48S-E
Software License	Network Essentials	Network Advantage	Network Essentials	Network Essentials
Downlink Ports	48 × 5 Gbps UPOE (60 W)	48 × 5 Gbps UPOE (60 W)	48 × 1 Gbps PoE+ (30 W)	48 × 1 Gbps SFP
PoE Budget (Default / Max)	645 W / 2545 W (with dual 1100 W PSUs)	995 W / 2545 W (with dual 1100 W PSUs)	437 W / 1440 W (with upgrade PSU)	N/A
Uplink Options	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)
Switching Capacity	256 Gbps / 1120 Gbps switching capacity with stacking	256 Gbps / 1120 Gbps switching capacity with stacking	256 Gbps / 736 Gbps switching capacity with stacking	256 Gbps / 736 Gbps switching capacity with stacking
Forwarding Rate	476.19 Mpps / 833.33 Mpps (stacked)	476.19 Mpps / 833.33 Mpps (stacked)	190.47 Mpps / 553.42 Mpps (stacked)	190.47 Mpps / 553.42 Mpps (stacked)
Stack Switching Capacity	1120 Gbps (StackWise-480)	1120 Gbps (StackWise-480)	736 Gbps (StackWise-480)	736 Gbps (StackWise-480)

MACsec Support	Yes (hardware-accelerated)	Yes (hardware-accelerated)	No	Yes (hardware-accelerated)
Default Power Supply	1100 W AC	1100 W AC	715 W AC	715 W AC

C9300-48UN-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	-	-

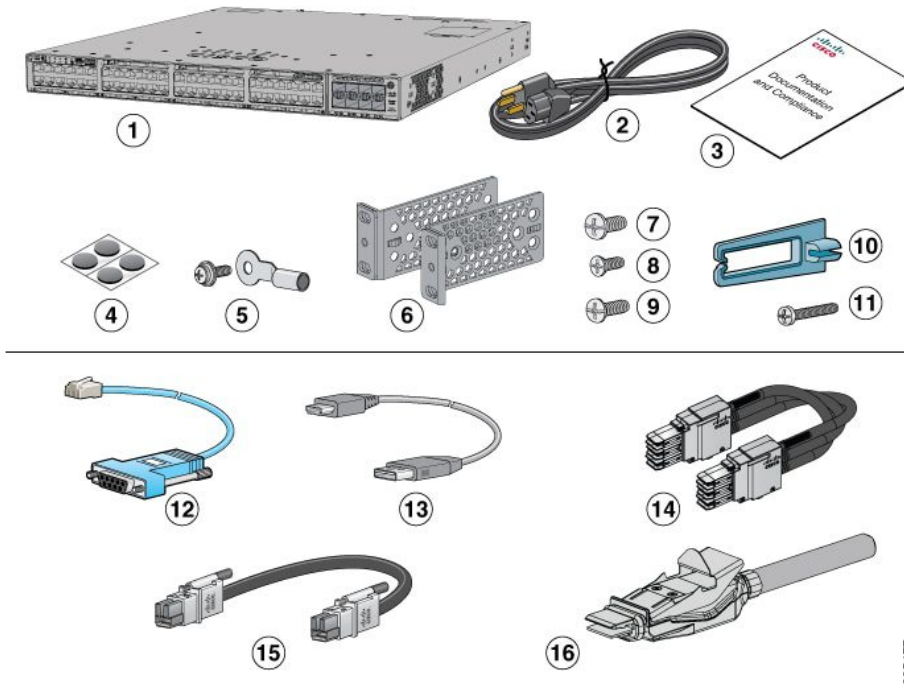


Components Delivered in the Shipping Box

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

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Downlink Ports	48 × 5 Gbps (5G/2.5G/1G/100M) UPOE (IEEE 802.3bt type 3)
Uplink Module Slot	1 × Field-replaceable modular slot (1 GbE/10 GbE/25 GbE/40 GbE/100 GbE optics)
PoE Budget (Default)	645 W (with 1100 W AC PSU)
PoE Budget (Max)	2545 W (with dual 1100 W AC PSUs)
DRAM	8 GB DDR4
Flash	16 GB
MAC Address Table	32,000 entries
IPv4 Routes	32,000 (static and dynamic)
IPv6 Routes	16,000

Parameter	C9300-48UN-E Specification
ACL Entries	5,120
QoS Entries	5,120
FNF Flows	64,000 flows
Packet Buffer	16 MB per 48 port 5 G model
VLAN IDs Supported	4,094
Stacking Switching Capacity	1120 Gbps with StackWise-480 (up to 8 members)
MTBF	198,647 hours
Dimensions (H x W x D)	1.73 x 17.5 x 19.1 in / 4.4 x 44.5 x 48.5 cm (depth 19.1 in / 48.5 cm to front of PSU; stacked depth 22.2 in / 56.4 cm)
Weight	20.05 lb / 9.09 kg
Operating Temperature	-5 °C to 45 °C
Relative Humidity	5 % to 90 % non-condensing
Acoustic (Idle/Max)	96 dB / 102 dB @ 110 VAC
Compliance	IEEE 802.3.bt, 802.1X, 802.1Q, RoHS, FCC Class A, CISPR 32 Class A
Software Image	IOS XE 17.x - Network Essentials
Management	CLI, SNMPv3, NETCONF, RESTCONF, Cisco DNA Center integration
Security Features	Basic hardware ACLs, 802.1X, Dynamic ARP Inspection, MACsec-128
Warranty	Limited lifetime - Next Business Day Replacement

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