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C9300X-12Y-E DataSheet

Cisco Catalyst C9300X-12Y-E: 12×25G/10G/1G SFP28 fiber, modular uplinks, 1 Tbps StackWise-1T, 744 Mpps; Network Essentials for high-throughput campus/data-center edge.

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C9300X-12Y-E Description

  The Cisco Catalyst C9300X-12Y-E is a high-density, data-only fiber access switch designed for campus and data-center edge deployments requiring ultra-high throughput and flexible uplink configurations. It features 12 SFP28 fiber ports that support multi-rate operation at 25 Gbps, 10 Gbps, or 1 Gbps, enabling seamless migration to higher-speed optics as network demands grow. Uplink connectivity is modular: customers can choose from any combination of C9300X network modules—such as 8×25 G/10 G/1 G SFP (NM-8Y), 2×100 G/40 G QSFP (NM-2C), or 4×100 G/40 G QSFP (NM-4C)—to architect optimal aggregation or core layer connectivity without forklift upgrades.

Quick Specs

Parameter	Specification
Model	C9300X-12Y-E
Switching Capacity	1,000 Gbps standalone / 2,000 Gbps stacked
Forwarding Rate	744.04 Mpps standalone / 1,488 Mpps stacked
Downlink Ports	12 × multi-rate SFP28 (25 G/10 G/1 G) fiber

Uplink Module Slots	4 slots (choose from NM-8Y, NM-2C, NM-4C)
Stacking Bandwidth	StackWise-1T (1 Tbps per stack link)
DRAM	16 GB
Flash Storage	16 GB
Power Supply	1 × 715 W AC (PWR-C1-715WAC-P)

Key Features

Product Comparison

Parameter	C9300X-12Y-E	C9300X-24Y-E	C9300X-48TX-M
Downlink Ports	12 × 25 G/10 G/1 G SFP28	24 × 25 G/10 G/1 G SFP28	48 × 10 G/1 G mGig SFP+ (10 G/5 G/2.5 G/1 G/100 M)
Uplink Module Slots	4 modular slots (e.g., NM-8Y, NM-2C, NM-4C)	4 modular slots	4 modular slots (e.g., NM-8M, NM-2C, NM-4C)
Switching Capacity	1,000 Gbps standalone / 2,000 Gbps stacked	2,000 Gbps standalone / 3,000 Gbps stacked	1,760 Gbps standalone / 2,760 Gbps stacked
Forwarding Rate	744.04 Mpps standalone / 1,488 Mpps stacked	1,488 Mpps standalone / 2,232 Mpps stacked	1,309 Mpps standalone / 2,232 Mpps stacked
Stacking Bandwidth	1 Tbps (StackWise-1T)	1 Tbps (StackWise-1T)	1 Tbps (StackWise-1T)
DRAM	16 GB	16 GB	16 GB
Flash Storage	16 GB	16 GB	16 GB
Power Supply	1 × 715 W AC (PWR-C1-715WAC-P)	1 × 715 W AC (PWR-C1-715WAC-P)	1 × 715 W AC (PWR-C1-715WAC-P)
License Image	Network Essentials ("-E")	Network Essentials ("-E")	Meraki Advanced ("-M")

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	–	–
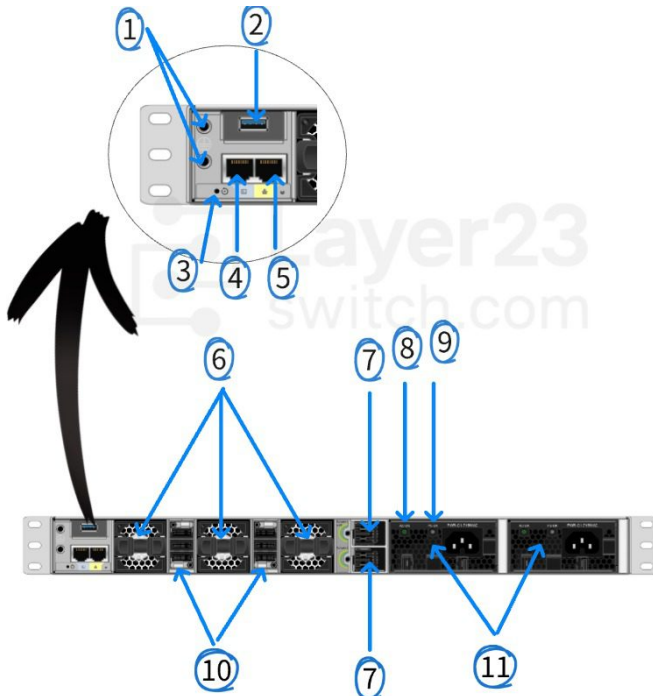
Components Delivered in the Shipping Box

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
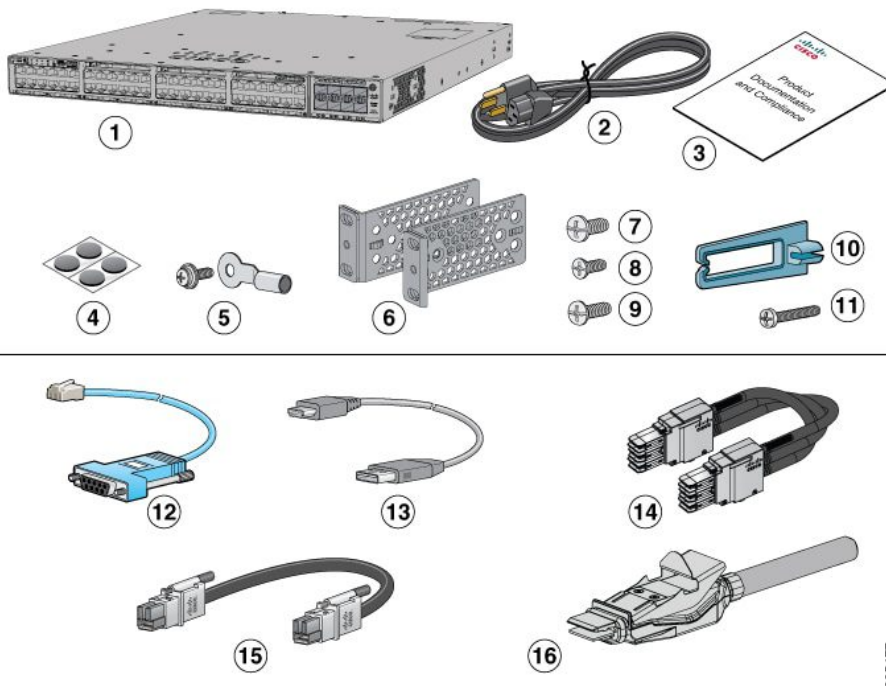
Specification

Parameter	Specification	Parameter	Specification
Model	C9300X-12Y-E	Chassis Dimensions (H×W×D) – chassis only	4.4 × 44.5 × 40.9 cm (1.73″×17.5″×16.1″)
Chassis Dimensions with default PSU	4.4 × 44.5 × 44.7 cm (1.73″×17.5″×17.6″)	Chassis Dimensions with secondary PSU	4.4 × 44.5 × 48.8 cm (1.73″×17.5″×19.2″)
Weight (with default PSU)	6.80 kg (15.0 lb)	DRAM	16 GB
Flash Storage	16 GB	MAC Address Table	32,000 entries
IPv4 Routes	39,000 (24,000 direct + 15,000 indirect)	IPv6 Routing Entries	19,500 entries
Multicast Routing Scale	8,000 entries	QoS Scale Entries	4,000 entries
ACL Scale Entries	8,000 entries	Packet Buffer	16 MB
Flexible NetFlow Entries	64,000 flows	VLAN IDs	4,094
Total SVIs	1,000	Jumbo Frame Support	Up to 9,198 bytes
Switching Capacity	1,400 Gbps	Switching Capacity (with stacking)	2,400 Gbps
Forwarding Rate	1,041 Mpps	Forwarding Rate (with stacking)	1,785 Mpps
Downlink Ports	12 × 25G/10G/1G SFP28	Uplink Slots	4 × modular SFP28 slots
Default Power Supply	PWR-C1-715WAC-P (715 W AC)	Available PoE	None
MTBF	265,650 hours	Operating Temperature	−5 °C to +45 °C
Storage Temperature	−40 °C to +70 °C	AC Input Voltage	100–240 VAC, 50–60 Hz
Host CPU	x86 4-core	SUDI Support	Secure Universal Device ID
Trustworthy System	Secure Boot	Software License	Network Essentials

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