C9300-48P-E DataSheet

Cisco C9300-48P-E is a high-performance 48-port PoE+ enterprise switch with advanced security, modular uplinks, and scalable stacking. Ideal for smart network deployments and IoT solutions.

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C9300-48P-E Description

Cisco Catalyst 9300-48P-E is a stackable, enterprise-grade switch designed for high-performance network environments. Featuring 48 x 10/100/1000 Ethernet ports with PoE+ support (up to 30W per port), it is ideal for powering devices like IP phones, cameras, and access points. The switch offers advanced security features, including Encrypted Traffic Analytics (ETA) and MACsec, and supports flexible uplink options with modular network modules. With a 715W PoE power budget and StackWise-480 for seamless scalability, the C9300-48P-E is perfect for SD-Access and IoT deployments in enterprise networks.

Quick Spec

Parameter	Details
Model	C9300-48P-E
Downlink Ports	48 × 10/100/1000 Mbps RJ-45 (PoE+)
Uplink Options	Modular (supports C9300-NM modules)
PoE Standard	IEEE 802.3at (PoE+)
PoE Power Budget	437W (with default 715W PSU), up to 1440W (with dual PSUs)
Switching Capacity	256 Gbps
Forwarding Rate	190.47 Mpps

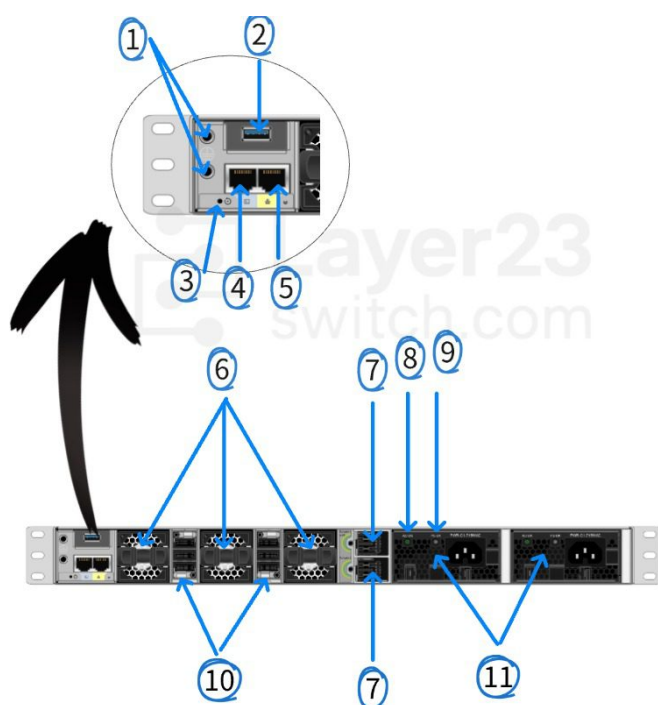| Stacking Bandwidth	480 Gbps (StackWise-480)
Stacking Support	Up to 8 units per stack
Default Software	Network Essentials
Power Supply	PWR-C1-715WAC (default), modular redundant supported
Fan and Cooling	3 field-replaceable fans (N+1 redundancy)

Key Features

Product Comparison

Specification	C9300-48P-E	C9300-48U-E	C9300L-48P-4X-E
Port Count	48 x 10/100/1000 PoE+	48 x 10/100/1000 UPOE	48 x 10/100/1000 PoE+
PoE Type	PoE+ (up to 30W per port)	UPOE (up to 60W per port)	PoE+ (up to 30W per port)
Available PoE Power	Default 715W, expandable	Default 1100W, expandable up to 1930W	Default 715W, expandable
Uplink Module	Modular uplink supported (C9300-NM series)	Modular uplink supported (C9300-NM series)	Fixed 4 x 10G SFP+ uplinks
Software License	Network Essentials (E)	Network Essentials (E)	Network Essentials (E)
Stacking Bandwidth	StackWise-480, up to 480 Gbps	StackWise-480, up to 480 Gbps	StackWise-480, up to 480 Gbps
Forwarding Rate	154.76 Mpps	154.76 Mpps	154.76 Mpps
Switching Capacity	208 Gbps	208 Gbps	208 Gbps
Power Supply	Default PWR-C1-715WAC	Default PWR-C1-1100WAC	Default PWR-C1-715WAC

Fans & PSU	Hot-swappable	Hot-swappable	Hot-swappable
Operating System	IOS XE + DNA Essentials	IOS XE + DNA Essentials	IOS XE + DNA Essentials

C9300-48P-E Switch Rear Panel

The switch rear panel includes StackWise connectors, StackPower or XPS connectors, ports, fan modules, and power supply modules.
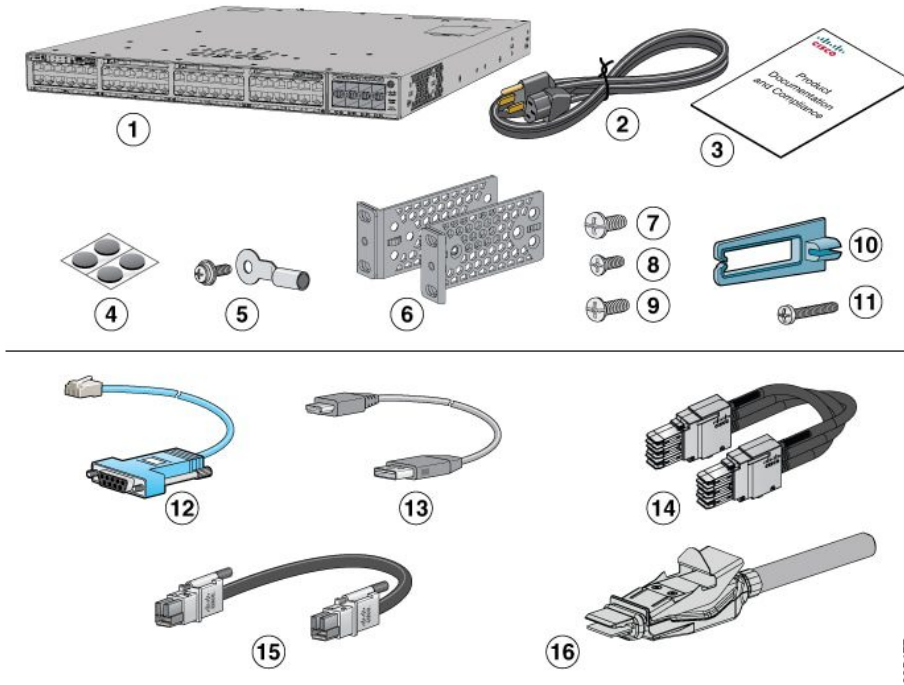
1	Ground connectors	7	StackPower connectors
2	USB3.0–SSD port	8	AC OK (input) status LED
3	BEACON LED	9	PS OK (output) status LED
4	CONSOLE (RJ-45 console port)	10	StackWise-480 port connectors
5	MGMT (RJ-45 10/100/1000 management port)	11	Power supply modules
6	Fan modules	–	–

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

Specification	Details
Model	C9300-48P-E
Ports	48 x 10/100/1000 Ethernet PoE+ ports
Uplink	Modular (supports network modules such as C9300-NM-4G, 8X, 2Q, 2Y)
Default AC Power Supply	715W AC (PWR-C1-715WAC)
Available PoE Power	437W with default PSU, up to 1440W with dual 1100W PSU
Stacking Bandwidth	480 Gbps (StackWise-480)
Switching Capacity	256 Gbps
Forwarding Rate	190.47 Mpps
DRAM / Flash	8 GB / 16 GB
MAC Address Table	32,000 entries
QoS/ACL Scale	QoS: 5,120 entries / ACL: 5,120 entries
Packet Buffer	16 MB
Software	Cisco IOS XE, supports DNA Essentials or Advantage license

Specification	Details
Stacking Support	Up to 8 switches
Dimensions (H x W x D)	1.73 x 17.5 x 17.7 in (with default PSU)
Weight	7.59 kg (16.73 lbs)
MTBF	277,770 hours
PoE Standard	IEEE 802.3at (PoE+), up to 30W per port
Redundancy	Dual redundant, hot-swappable power supplies and fans
Management	CLI, Web UI, Cisco DNA Center, SNMP, NetFlow, RESTCONF, NETCONF
Security	MACsec-128, ETA (Encrypted Traffic Analytics), Trustworthy Systems
Operating Temperature	-5°C to +45°C (up to 1500m altitude)

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