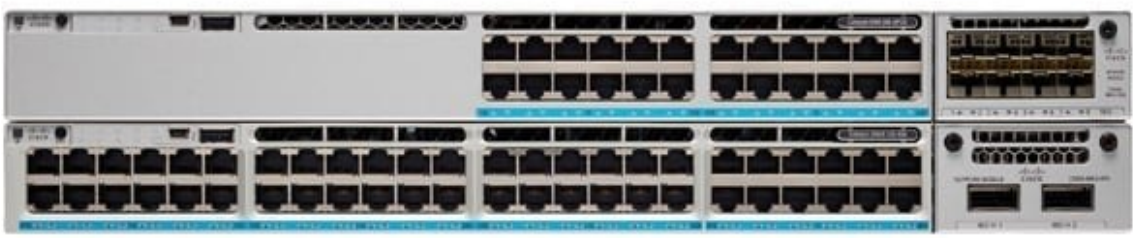
TECHNICAL DATASHEET

CISCO · NETWORKING

Cisco Catalyst 9300 48-port 1G SFP switch, modular uplinks, Network Essentials

Catalyst 9300 stackable enterprise access switch - 48x 1G SFP fiber ports, modular uplinks

SKU C9300-48S-E | 1U | Cisco



DOWNLINK PORTS	SWITCHING CAPACITY	DIMENSIONS	PRICE
48x 1G SFP fiber ports	256 Gbps	4.4 x 44.5 x 44.9 cm (1.73 x 17.5 x 17...	On request

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serverinvest.com/product/cisco-c9300-48s-e

01 Product overview

The Cisco C9300-48S-E is a Catalyst 9300 stackable enterprise access switch that provides 48x 1G SFP fiber ports and modular uplinks (C9300-NM-4G, C9300-NM-4M, C9300-NM-8X, C9300-NM-2Q, C9300-NM-2Y network modules). It delivers 256 Gbps of switching capacity and a forwarding rate of 190.47 Mpps, ensuring wire-speed performance for everyday business traffic.

The Catalyst 9300 is Cisco's flagship stackable enterprise access platform. It combines the UADP 2.0 ASIC with Cisco IOS XE to deliver high-scale Layer 3 routing, SD-Access fabric edge functionality, wired and wireless convergence, application hosting and strong security features such as MACsec-256 and Cisco Trustworthy Solutions. StackWise-480 and StackPower provide resilient stacking of up to eight switches, while field-replaceable power supplies, fans and uplink network modules maximise uptime and flexibility.

This part number ships with the Network Essentials software license; Network Essentials covers the Layer 2 and Layer 3 access feature set, with an upgrade path to Network Advantage. A Cisco DNA / Catalyst subscription is ordered together with the switch. It is well suited to enterprise wiring closets, branch offices and campus access layers. ServerInvest supplies Cisco switching across Europe - contact us for pricing, availability and project quotes.

KEY SPECIFICATIONS

Manufacturer part number	**C9300-48S-E**
Series	**Catalyst 9300**
Switch type	**Layer 3 (Cisco IOS XE)**
Downlink ports	**48x 1G SFP fiber ports**
Switching capacity	**256 Gbps**
Forwarding rate	**190.47 Mpps**
MAC address table	**32,000**
VLANs	**4,094**
Jumbo frames	**9,198 bytes**
Routing scale	**32,000 IPv4 (24,000 direct + 8,000 indirect); 16,000 IPv6**
DRAM	**8 GB**
Flash	**16 GB**

HIGHLIGHTS

- 48x 1G SFP fiber ports
- Modular uplinks (C9300-NM-4G, C9300-NM-4M, C9300-NM-8X, C9300-NM-2Q, C9300-NM-2Y network modules)
- 256 Gbps switching capacity, 190.47 Mpps forwarding rate
- StackWise-480 stacking and StackPower for up to 8 switches
- UADP 2.0 ASIC with MACsec-256 and Cisco Trustworthy Solutions
- Enhanced Limited Lifetime Warranty (E-LLW)

02 Full specifications

GENERAL	
Manufacturer part number	C9300-48S-E
Series	Catalyst 9300
Switch type	Layer 3 (Cisco IOS XE)
License tier	Network Essentials (Cisco DNA / Catalyst subscription ordered separately)

PORTS	
Downlink ports	48x 1G SFP fiber ports
Uplinks	Modular uplinks (C9300-NM-4G, C9300-NM-4M, C9300-NM-8X, C9300-NM-2Q, C9300-NM-2Y network modules)

PERFORMANCE	
Switching capacity	256 Gbps

Forwarding rate	190.47 Mpps
MAC address table	32,000
VLANs	4,094
Jumbo frames	9,198 bytes
Routing scale	32,000 IPv4 (24,000 direct + 8,000 indirect); 16,000 IPv6

HARDWARE

DRAM	8 GB
Flash	16 GB
Stacking	StackWise-480 (480 Gbps), up to 8 switches; StackPower

POWER

Power supply	PWR-C1-715WAC-P (715W AC) platinum, field-replaceable, dual redundant slots, StackPower

PHYSICAL

Form factor	1U rack-mountable
Dimensions	4.4 x 44.5 x 44.9 cm (1.73 x 17.5 x 17.7 in)
Weight	7.86 kg (17.32 lb)
Cooling	Field-replaceable redundant fans

ENVIRONMENTAL

Operating temperature	-5°C to +45°C
MTBF	281,920 hours

WARRANTY

Warranty	Enhanced Limited Lifetime Warranty (E-LLW)

03 Engineered, delivered & supported by ServerInvest

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