

Overview

C9200-48P-E is the Catalyst 9200 48-port PoE+ Switch, with Network Essentials software. Cisco® Catalyst® 9200 Series switches extend the power of intent-based networking and Catalyst 9000 hardware and software innovation to a broader set of deployments. With its family pedigree, Catalyst 9200 Series switches offer simplicity without compromise – it is secure, always on, and IT simplified.

Quick Spec

Table 1 shows the quick spec.

Model	C9200-48P-E
Downlinks total 10/100/1000 or PoE+ copper ports	48-port Full PoE+
Uplink configuration	Modular uplink options
Default primary AC power supply	PWR-C6-1KWAC
Fans	FRU redundant
Software	Network Essentials
Stacking bandwidth	160 Gbps
DRAM	4 GB
Flash	4 GB
Switching capacity	176 Gbps
Forwarding rate	261.9 Mpps
Chassis Dimensions	1.73 x 17.5 x 13.8 in 4.4 x 44.5 x 35.0 cm

Product Details

Catalyst 9200 series provides these highlights:

- Up to 48 ports of full Power over Ethernet Plus (PoE+) capability
- Resiliency with Field-Replaceable Units (FRU) and redundant power supply, fans, and modular uplinks
- Flexible downlink options with data or PoE+
- Operational efficiency with optional backplane stacking, supporting stacking bandwidth up to 160 Gbps
- UADP 2.0 Mini with integrated CPU offers customers optimized scale with better cost structure
- Enhanced security with AES-128 MACsec encryption, policy-based segmentation, and trustworthy systems
- Layer 3 capabilities, including OSPF, EIGRP, ISIS, RIP, and routed access
- Advanced network monitoring using Full Flexible NetFlow
- Cisco Software-Defined Access (SD-Access):
  - Simplified operations and deployment with policy-based automation from edge to cloud managed with Cisco Identity Services Engine (ISE)
  - Network assurance and improved resolution time through Cisco DNA Center™
- Plug and Play (PnP) enabled: A simple, secure, unified, and integrated offering to ease new branch or campus device rollouts or updates to an existing network
- Cisco IOS XE: A Common Licensing based operating system for the enterprise Cisco Catalyst 9000 product family with support for model-driven programmability and streaming telemetry
- ASIC with programmable pipeline and micro-engine capabilities, along with template-based, configurable allocation of Layer 2 and Layer 3 forwarding, Access Control Lists (ACLs), and Quality of Service (QoS) entries

The Accessories

Table 2 shows the recommended elements for theC9300-24P-A.

Product number	Description
<a href="#">C9300-NM-4G</a>	9300 Series 4x 1G Network Module
<a href="#">C9300-NM-4G=</a>	Catalyst 9300 4 x 1GE Network Module, spare
<a href="#">C9300-NM-8X</a>	9300 Series 8x 10G Network Module
<a href="#">C9300-NM-8X=</a>	Catalyst 9300 8 x 10GE Network Module, spare
<a href="#">C9300-NM-2Q</a>	9300 Series 2x 40G Network Module
<a href="#">C9300-NM-2Q=</a>	Catalyst 9300 2 x 40GE Network Module, spare
<a href="#">C9300-NM-4M</a>	9300 Series 4x Multigigabit Network Module
<a href="#">C9300-NM-4M=</a>	Catalyst 9300 4 x MGig Network Module, spare
<a href="#">Product Description</a>	Catalyst 9300 48-port UPOE, Network Advantage
<a href="#">Product</a>	Code C9300-48U-A
<a href="#">Total 10/100/1000 or Multigigabit copper ports</a>	48 Cisco UPOE
<a href="#">Default AC power supply</a>	1100W AC
<a href="#">Available PoE power</a>	822W
<a href="#">Dimensions (H x W x D)</a>	1.73 x 17.5 x 17.5 Inches

Compare to Similar Items

Table 3 shows the comparison.

Model	Description
<a href="#">C9200-48T-A</a>	Catalyst 9200 48-port Data Switch, Network Advantage
<a href="#">C9200-48T-E</a>	Catalyst 9200 48-port Data Switch, Network Essentials
<a href="#">C9200-48P-A</a>	Catalyst 9200 48-port PoE+ Switch, Network Advantage
<a href="#">C9200-48P-E</a>	Catalyst 9200 48-port PoE+ Switch, Network Essentials

Specification

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C9200-48P-E Specification	
Downlinks total 10/100/1000 or PoE+ copper ports	48 ports full PoE+
Uplink configuration	Modular uplink options
Default primary AC power supply	PWR-C6-1KWAC
Fans	FRU redundant

Software	Network Essentials
Chassis Dimensions	1.73 x 17.5 x 13.8 in 4.4 x 44.5 x 35.0 cm
Virtual Networks	4
Stacking bandwidth	160 Gbps
Total number of MAC addresses	32,000
Total number of IPv4 routes (ARP plus learned routes)	14,000 (10,000 direct routes and 4,000 indirect routes)
IPv4 routing entries	4,000
IPv6 routing entries	2,000
Multicast routing scale	1,000
QoS scale entries	1,000
ACL scale entries	1,600
Packet buffer per SKU	6 MB buffers for 24- or 48-port Gigabit Ethernet models
Flexible NetFlow (FNF) entries	16,000 flows on 24- and 48-port Gigabit Ethernet models
DRAM	4 GB
Flash	4 GB
VLAN IDs	4096
Total Switched Virtual Interfaces (SVIs)	1000
Jumbo frames	9198 bytes
Wireless bandwidth per switch	Up to 48 Gbps on 24-port and 48-port Gigabit Ethernet model
Switching capacity	176 Gbps
Forwarding rate	261.9 Mpps
Mean time between failures (hours)	375,570

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