

# C9200L-48T-4X-E Datasheet

## Overview

C9200L-48T-4X-E is the Catalyst 9200L 48-port Data 4x10G uplink 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.

<b>Model</b>	C9200L-48T-4X-E
<b>Downlinks total 10/100/1000 or PoE+ copper ports</b>	48 ports data
<b>Uplink configuration</b>	4x 10G fixed uplinks
<b>Default primary AC power supply</b>	PWR-C5-125WAC
<b>Fans</b>	Fixed redundant
<b>Software</b>	Network Essentials
<b>Stacking bandwidth</b>	80 Gbps
<b>DRAM</b>	2 GB
<b>Flash</b>	4 GB
<b>Switching capacity</b>	176 Gbps
<b>Forwarding rate</b>	261.9 Mpps
<b>Chassis Dimensions</b>	1.73 x 17.5 x 11.3 in 4.4 x 44.5 x 28.8 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

## Supported Products

Table 2 shows the recommended supported products.

StackWise-80 and StackWise-160 Kit and cables	
Product number	Product description
<a href="#">C9200-STACK-KIT=</a>	C9200 Stack Kit Spare
<a href="#">C9200L-STACK-KIT=</a>	C9200L Stack Kit Spare
<a href="#">STACK-T4-50CM</a>	50CM Type 3 Stacking Cable
<a href="#">STACK-T4-1M</a>	1M Type 3 Stacking Cable
<a href="#">STACK-T4-3M</a>	3M Type 3 Stacking Cable
Power supplies	
Product Number	Product Description
<a href="#">PWR-C5-125WAC/2=</a>	125WAC power supply spare

## Compare to Similar Items

Table 3 shows the comparison.

Product number	Product description
<a href="#">C9200L-48T-4X-A</a>	Catalyst 9200L 48-port Data 4x10G uplink Switch, Network Advantage
<a href="#">C9200L-48T-4X-E</a>	Catalyst 9200L 48-port Data 4x10G uplink Switch, Network Essentials
<a href="#">C9200L-48P-4X-A</a>	Catalyst 9200L 48-port PoE+ 4x10G uplink Switch, Network Advantage
<a href="#">C9200L-48P-4X-E</a>	Catalyst 9200L 48-port PoE+ 4x10G uplink Switch, Network Essentials

## Specification

C9200L-48T-4X-E Specification	
Downlinks total 10/100/1000 or PoE+ copper ports	48 ports data
Uplink configuration	4x 10G fixed uplinks
Default primary AC power supply	PWR-C5-125WAC
Fans	Fixed redundant
Software	Network Essentials
Chassis Dimensions	1.73 x 17.5 x 11.3 in 4.4 x 44.5 x 28.8 cm
Virtual Networks	1
Stacking bandwidth	80 Gbps

<b>Total number of MAC addresses</b>	16,000
<b>Total number of IPv4 routes (ARP plus learned routes)</b>	11,000 (8,000 direct routes and 3,000 indirect routes)
<b>IPv4 routing entries</b>	3,000
<b>IPv6 routing entries</b>	1,500
<b>Multicast routing scale</b>	1,000
<b>QoS scale entries</b>	1,000
<b>ACL scale entries</b>	1,500
<b>Packet buffer per SKU</b>	6 MB buffers for 24- or 48-port Gigabit Ethernet models
<b>Flexible NetFlow (FNF) entries</b>	16,000 flows on 24- and 48-port Gigabit Ethernet models
<b>DRAM</b>	2 GB
<b>Flash</b>	4 GB
<b>VLAN IDs</b>	1024
<b>Total Switched Virtual Interfaces (SVIs)</b>	512
<b>Jumbo frames</b>	9198 bytes
<b>Wireless bandwidth per switch</b>	N/A
<b>Switching capacity</b>	176 Gbps
<b>Forwarding rate</b>	261.9 Mpps
<b>Mean time between failures (hours)</b>	503,400