

# C9300L-48UXG-2Q-E Datasheet

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## Overview

The Cisco® Catalyst® 9300 Series switches are Cisco's lead stackable enterprise switching platform built for security, IoT, mobility, and cloud. They are the next generation of the industry's most widely deployed switching platform..

### Quick Specs

Table 1 shows the Quick Specs.

<b>Product Code</b>	<b>C9300L-48UXG-2Q-E</b>
<b>Product Description</b>	Catalyst 9300 48-port fixed uplinks UPoE, 12xmGig, 2X40G uplinks, Network Essentials
<b>Total 10/100/1000,Multigigabit copper or SFP Fiber</b>	48 UPoE 12xmGig
<b>Uplink Configuration</b>	2x 40G fixed uplinks
<b>Default AC power supply</b>	1100W AC
<b>Available PoE power</b>	675W
<b>Switching capacity</b>	472 Gbps
<b>Switching capacity with stacking</b>	792 Gbps
<b>Forwarding rate</b>	351.19 Mpps
<b>Forwarding rate with stacking</b>	589.28 Mpps

### The Accessories

Table 2 shows the recommended elements for theCatalyst 9300 Series.

<b>Product number</b>	<b>Description</b>
<b>Network module</b>	
C9300-NM-4G	Catalyst 9300 Series 4x 1G Network Module
C9300-NM-4M	Catalyst 9300 Series 4x Multigigabit Network Module
C9300-NM-8X	Catalyst 9300 Series 8x 10G Network Module
C9300-NM-2Q	Catalyst 9300 Series 2x 40G Network Module
C9300-NM-2Y	Catalyst 9300 Series 2x 25G Network Module
<b>Stacking accessories</b>	
STACK-T1-50CM	Data stack 50 cm (cable option with C9300 SKUs)
STACK-T1-1M	Data stack 1m (cable option with C9300 SKUs)
STACK-T1-3M	Data stack 3m (cable option with C9300 SKUs)
C9300L-STACK-KIT	Stack kit for C9300L SKUs only: Two data stack adapters and one data stack cable



STACK-T3-50CM	Data stack 50cm cable (default cable with C9300L Stack Kit)
STACK-T3-1M	Data stack 1m cable (cable option with C9300L Stack Kit)
STACK-T3-3M	Data stack 3m cable (cable option with C9300L Stack Kit)

## Compare to Similar Items

Table 3 shows the comparison.

Product Code	C9300L-48UXG-2Q-A	C9300L-48UXG-2Q-E	<a href="#">C9300L-48UXG-4X-A</a>	C9300L-48UXG-4X-E
<b>Product Description</b>	Catalyst 9300 48-port fixed uplinks UPoE, 12xmGig, 2x40G uplinks, Network Advantage	Catalyst 9300 48-port fixed uplinks UPoE, 12xmGig, 2X40G uplinks, Network Essentials	Catalyst 9300 48-port fixed uplinks UPoE, 12xmGig, 4x10G uplinks, Network Advantage	Catalyst 9300 48-port fixed uplinks UPoE, 12xmGig, 4X10G uplinks, Network Essentials
<b>Total 10/100/1000,Multigigabit copper or SFP Fiber</b>	48 UPoE 12xmGig	48 UPoE 12xmGig	48 UPoE 12xmGig	48 UPoE 12xmGig
<b>Uplink Configuration</b>	2x 40G fixed uplinks	2x 40G fixed uplinks	4x 10G fixed uplinks	4x 10G fixed uplinks
<b>Default AC power supply</b>	1100W AC	1100W AC	1100W AC	1100W AC
<b>Available PoE power</b>	675W	675W	675W	675W
<b>Switching capacity</b>	472 Gbps	472 Gbps	392 Gbps	392 Gbps
<b>Switching capacity with stacking</b>	792 Gbps	792 Gbps	712 Gbps	712 Gbps
<b>Forwarding rate</b>	351.19 Mpps	351.19 Mpps	291.66 Mpps	291.66 Mpps
<b>Forwarding rate with stacking</b>	589.28 Mpps	589.28 Mpps	529.76 Mpps	529.76 Mpps

## Get More Information

Do you have any question about the C9300L-48UXG-2Q-E? Contact us now

via [sales@gntme.com](mailto:sales@gntme.com)

## Specification

C9300L-48UXG-2Q-E Specification	
<b>Product Description</b>	Catalyst 9300 48-port fixed uplinks UPoE, 12xmGig, 2X40G uplinks, Network Essentials
<b>FRU Power Supply</b>	Yes
<b>FRU Fans</b>	Yes
<b>Modular Uplinks</b>	No
<b>Stacking Bandwidth Support</b>	320 Gbps
<b>Cisco StackPower</b>	No
<b>Catalyst 9800 Embedded WLC</b>	Yes (50 APs)
<b>SD-Access Support</b>	Yes (256 Virtual Networks)
<b>Total 10/100/1000,Multigigabit copper or SFP Fiber</b>	48 UPoE 12xmGig



<b>Uplink Configuration</b>	2x 40G fixed uplinks	
<b>Default AC power supply</b>	1100W AC	
<b>Available PoE power</b>	675W	
<b>Total number of MAC addresses</b>	32,000	
<b>Total number of IPv4 routes (ARP plus learned routes)</b>	32,000 (24,000 direct routes and 8000 indirect routes)	
<b>IPv6 routing entries</b>	16,000	
<b>Multicast routing scale</b>	8,000	
<b>QoS scale entries</b>	5,120	
<b>ACL scale entries</b>	5,120	
<b>Packet buffer per SKU</b>	16 MB buffer for 24 and 48 port Gigabit Ethernet models	
<b>FNF entries</b>	64,000 flow on 24- and 48-port Gigabit Ethernet models	
<b>DRAM</b>	8 GB	
<b>Flash</b>	16 GB	
<b>VLAN IDs</b>	4094	
<b>Total Switched Virtual Interfaces (SVIs)</b>	1000	
<b>Jumbo frames</b>	9198 bytes	
<b>Total routed ports per Catalyst 9300 Series stack</b>	416	
<b>Switching capacity</b>	472 Gbps	
<b>Switching capacity with stacking</b>	792 Gbps	
<b>Forwarding rate</b>	351.19 Mpps	
<b>Forwarding rate with stacking</b>	589.28 Mpps	
<b>Dimensions (H x W x D) Cms</b>	<b>Chassis only</b>	4.4 x 44.5 x 40.9
	<b>W/ Default Power Supply</b>	4.4 x 44.5 x 48.8
	<b>W/ 1100W Power Supply</b>	4.4 x 44.5 x 48.8
<b>Mean Time Between Failures–MTBF (hours)</b>	275,010	
<b>Acoustic noise</b> <b>Measured per ISO 7779 and declared per ISO 9296 Bystander positions</b> <b>operating to an ambient temperature of 25°C</b>	<p>With AC power supply (with 24 PoE+ ports loaded for C9300 SKUs)</p> <ul style="list-style-type: none"> <li>• LpA: 45dB typical, 48 dB max</li> <li>• LwA: 5.6B typical, 5.9B max</li> </ul> <p>With AC power supply (with half the number of PoE+ ports loaded for C9300L SKUs)</p> <ul style="list-style-type: none"> <li>• LpA: 44dB typical, 47 dB max</li> <li>• LwA: 5.5B typical, 5.8B max</li> </ul> <p>Typical: Noise emission for a typical configuration Maximum: Statistical maximum to account for variation in p</p>	



<p><b>Connectors and cabling</b></p>	<ul style="list-style-type: none"> <li>• 1000BASE-T ports: RJ-45 connectors, 4-pair Cat 5E UTP cabling</li> <li>• Multigigabit-T ports: RJ-45 connectors, 4-pair Cat 5E, Cat 6, Cat 6A UTP cabling</li> <li>• 1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Cat 5E UTP cabling</li> <li>• SFP transceivers: LC fiber connectors (single-mode or multimode fiber)</li> <li>• SFP+ transceivers: LC fiber connectors (single-mode or multimode fiber)</li> <li>• QSFP+ transceivers: MPO and LC fiber connectors (single-mode or multimode fiber)</li> <li>• QSFP+ connector</li> <li>• SFP+ connector</li> <li>• Cisco StackWise stacking ports: copper-based Cisco StackWise cabling</li> <li>• Cisco StackPower: Cisco proprietary power stacking cables</li> <li>• Ethernet management port: RJ-45 connectors, 4-pair Cat 5 UTP cabling</li> <li>• Management console port: RJ-45-to-DB9 cable for PC connections</li> </ul>
<p><b>Power connectors</b></p>	<ul style="list-style-type: none"> <li>• Customers can provide power to a switch by using the internal power at the back of the switch</li> <li>• Internal power supply connector: The internal power supply is an auto-ranging unit. It supports input voltages between 100 (115 for 1100WAC) and 240 VAC. Use the supplied AC power cord to connect the AC power connector to an AC power outlet</li> </ul>
<p><b>Safety certifications</b></p>	<ul style="list-style-type: none"> <li>• UL 60950-1</li> <li>• CAN/CSA-C222.2 No. 60950-1</li> <li>• EN 60950-1</li> <li>• IEC 60950-1</li> <li>• AS/NZS 60950.1</li> <li>• IEEE 802.3</li> </ul>
<p><b>Electromagnetic emissions certifications</b></p>	<ul style="list-style-type: none"> <li>• 47 CFR Part 15</li> <li>• CISPR22 Class A</li> <li>• EN 300 386 V1.6.1</li> <li>• EN 55022 Class A</li> <li>• EN 55032 Class A</li> <li>• CISPR 32 Class A</li> <li>• EN61000-3-2</li> <li>• EN61000-3-3</li> <li>• ICES-003 Class A</li> <li>• TCVN 7189 Class A</li> <li>• V-3 Class A</li> <li>• CISPR24</li> <li>• EN 300 386</li> <li>• EN55024</li> <li>• TCVN 7317</li> <li>• V-2/2015.04</li> <li>• V-3/2015.04</li> <li>• CNS13438</li> <li>• KN32</li> <li>• KN35</li> <li>• IEC 61000-6-1</li> <li>• EN 61000-6-1</li> </ul> <p><b>Additional Certifications for C9300L SKUs:</b></p> <ul style="list-style-type: none"> <li>• QCVN 118:2018/BTTTT</li> <li>• CISPR24/25</li> <li>• CISPR 32 Class A</li> <li>• VCCI-CISPR 32 Class A</li> <li>• EN55035</li> </ul>
<p><b>Environmental</b></p>	<p>Reduction of Hazardous Substances (ROHS) 5</p>



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