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Overview

WS-C2960L-48PQ-LL offering 48 x GigE PoE+ ports, 4 x 10G SFP and LAN Lite, is one of the Cisco Catalyst 2960-L Series Switches. These 2960-L switches are fixed-configuration, Gigabit Ethernet switches that provide entry-level enterprise-class Layer 2 access for branch offices, conventional workspaces, and out-of-wiring closet applications. Designed for operational simplicity to lower total cost of ownership, they enable secure and energy-efficient business operations with a range of Cisco IOS Software features.

Quick Specs

Figure 1 shows the appearance of WS-C2960L-48PQ-LL.

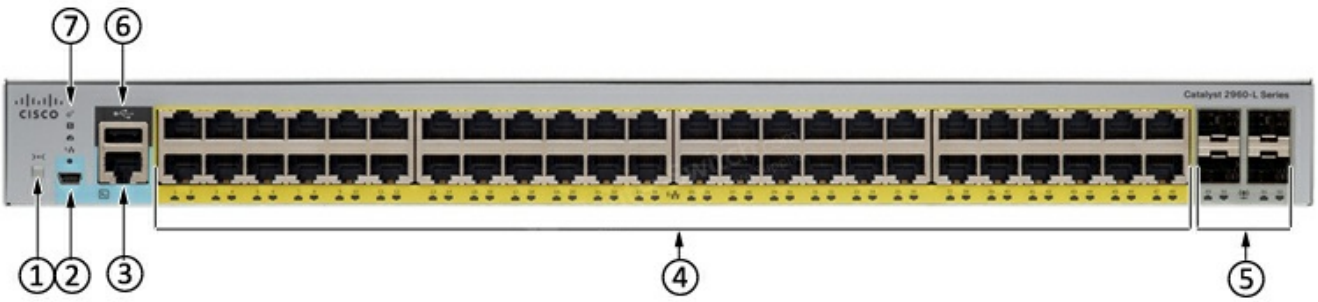


Table 1 shows the Quick Specs.

Product Code	WS-C2960L-48PQ-LL
IOS	LAN Lite
Forwarding bandwidth	88 Gbps
Switching bandwidth	176 Gbps
10/100/1000 Ethernet Ports	48 PoE+ Ports
Available PoE Power	370W
Uplink Interfaces	4 x 10G SFP
Fanless	N
DRAM	512 MB
Flash memory	256 MB
Dimensions (H x D x W)	1.73 x 11.5 x 17.5 in. (4.4 x 29.2 x 44.5 cm)
Net Weight	9.81 lb (4.54 kg)

Product Details

Figure 2 shows the front panel of WS-C2960L-48PQ-LL.



Note:

(1)	Mode button
(2)	USB mini-Type B (console) port
(3)	RJ-45 Console Port
(4)	48 x 10/100/1000 PoE+ ports
(5)	SFP module slots
(6)	USB Type A port
(7)	System LEDs

· There are a Security slot, Heat sink fins and an AC power connector on the back panel.

The Accessories

Table 2 shows the recommended elements for the WS-C2960L-48PQ-LL.

Model	Description
CAB-CONSOLE-USB	Cisco CAB-CONSOLE-USB Console Cable 6 ft with USB Type A and mini-B
CAB-CONSOLE-RJ45	Cisco CAB-CONSOLE-RJ45 Console Cable 6ft with RJ45 and DB9F
CAB-ACE=	CAB-ACE= AC Power Cord (Europe), C13, CEE 7, 1.5M
CAB-ACU=	CAB-ACU= AC Power Cord (UK), C13, BS 1363, 2.5m

Compare to Similar Items

Table 3 shows the comparison of WS-C2960L-48PS-LL and WS-C2960L-48PQ-LL.

Model	WS-C2960L-48PS-LL	WS-C2960L-48PQ-LL
IOS	LAN Lite	LAN Lite
Forwarding bandwidth	52 Gbps	88 Gbps
Switching bandwidth	104 Gbps	176Gbps
10/100/1000 Ethernet Ports	48	48
Available PoE Power	N/A	370W
Uplink Interfaces	4 x 1G SFP	4 x 10G SFP

Get more information

Do you have any question about the WS-C2960L-48PQ-LL?

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Specification

WS-C2960L-48PQ-LL Specification	
Configurations	
10/100/1000 Ethernet Ports	48
Uplink Interfaces	4 SFP
Available PoE Power	370W
Fanless	N
Dimensions (H x D x W)	1.73 x 11.5 x 17.5 in. (4.4 x 29.2 x 44.5 cm)
Net Weight	9.81 lb (4.54 kg)
Console Ports	
RJ45 Ethernet	1
USB mini-B	1
USB-A port for storage and Bluetooth console	1
Memory and Processor	
CPU	ARMv7 800 MHz
DRAM	512 MB
Flash memory	256 MB
Performance	
Forwarding bandwidth	88 Gbps
Switching bandwidth	176Gbps
Forwarding rate (64-byte L3 packets)	77.38 Mpps
Unicast MAC addresses	8K
Maximum active VLANs	64
VLAN IDs available	4094
Maximum STP instances	64
Maximum SPAN sessions	1
MTU-L3 packet	9198 bytes
Jumbo Ethernet frame	10,240 bytes
MTBF in hours (Data)	1,370,769
MTBF in hours (PoE)	437,970

Environment	
Operating temperature	
Up to 5,000 ft	23°F to 113°F (−5°C to 45°C)
Up to 10,000 ft	23°F to 104°F (−5°C to 40°C)
Operating altitude	10,000 ft (3000m)
Operating relative humidity	5% to 90% at 40°C
Storage temperature	−13° to 158°F (−25° to 70°C)
Storage altitude	15,000 ft (4500m)
Storage relative humidity	5% to 95% at 65°C
Storage altitude	Minimum ambient temperature for cold start is 0°C (32°F)
Electrical	PoE
Voltage (autoranging)	110 to 220V AC in
Frequency	50 to 60 Hz
Current	0.37A to 0.64A
Power rating (maximum consumption)	0.48 kVA
Power consumption (watts)	
0% traffic	68.4
10% traffic	81.6
100% traffic	81.9
Weighted average	77.3
Safety and Compliance	
Safety	UL 60950-1 Second Edition, CAN/CSA-C22.2 No. 60950-1 Second Edition, EN 60950-1 Second Edition, IEC 60950-1 Second Edition, AS/NZS 60950-1
EMC: emissions	47CFR Part 15 (CFR 47) Class A, AS/NZS CISPR22 Class A, CISPR22 Class A, EN55022 Class A, ICES003 Class A, VCCI Class A, EN61000-3-2, EN61000-3-3, KN22 Class A, CNS13438 Class A
EMC: immunity	EN55024, CISPR24, EN300386, KN24
Environmental	Reduction of Hazardous Substances (RoHS) including Directive 2011/65/EU
Telco	Common Language Equipment Identifier (CLEI) code
U.S. government certifications	USGv6 and IPv6 Ready Logo
Connectors and Interfaces	
Ethernet interfaces	10BASE-T ports: RJ-45 connectors, 2-pair Category 3, 4, or 5 unshielded twisted-pair (UTP) cabling
	100BASE-TX ports: RJ-45 connectors, 2-pair Category 5 UTP cabling
	1000BASE-T ports: RJ-45 connectors, 4-pair Category 5 UTP cabling
	1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Category 5 UTP cabling
Indicator LEDs	Per-port status: link integrity, disabled, activity, speed, and full duplex
	System status: system, PoE, and link speed
Console cables	CAB-CONSOLE-RJ45 Console cable 6 ft. with RJ-45

	CAB-CONSOLE-USB Console cable 6 ft. with USB Type A and mini-B connectors
Power	Use the supplied AC power cord to connect the AC power connector to an AC power outlet

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