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Overview

WS-C2960S-48FPD-L is one of the Cisco Catalyst 2960-S Switches, which are the leading Layer 2 edge, providing improved ease of use, highly secure business operations, improved sustainability, and a borderless network experience. The Catalyst 2960-S Series Switches include new FlexStack switch stacking capability with 1 and 10 Gigabit connectivity, and Power over Ethernet Plus (PoE+) with the Cisco Catalyst 2960 Series Switches offering Fast Ethernet access connectivity and PoE capabilities. The Cisco Catalyst 2960-S are fixed-configuration access switches designed for enterprise, midmarket, and branch office networks to provide lower total cost of ownership.

Quick Specs

Figure 1 shows the appearance of the WS-C2960S-48FPD-L.

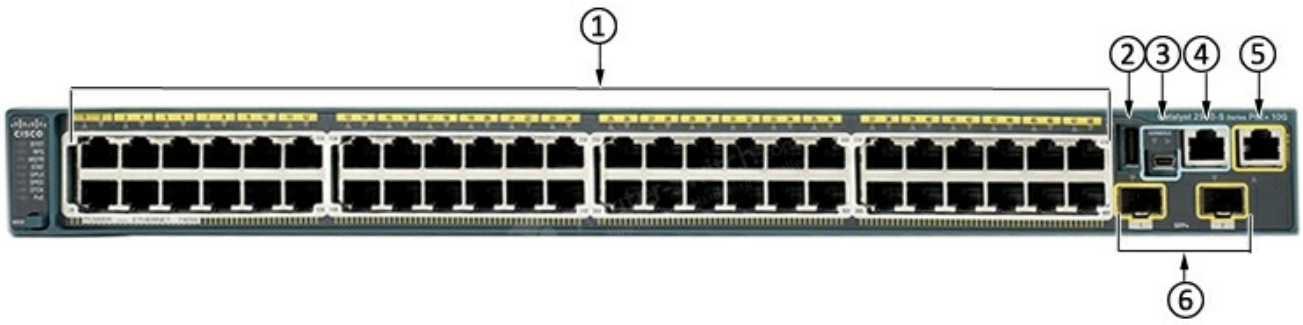


Table 1 shows the Quick Spec of the WS-C2960S-48FPD-L.

Product Code	WS-C2960S-48FPD-L
Enclosure Type	Rack-mountable - 1U
Feature Set	LAN Base
PoE capacity	740W
Uplink Interfaces	2 x 10 Gigabit SFP+ or 2 x 1 Gigabit Ethernet SFP+ uplink ports
Downlink Ports	48 x Ethernet 10/100/1000 PoE+ ports
Expansion Slot(s)	1 (total) / 1 (free) x Stacking Module
Switching capacity	176 Gbps
Forwarding/Filtering Rate:	77.4 Mpps
DRAM	128 MB
Flash Memory	64 MB
Dimensions	44.5 x 38.6 x 4.5 cm
Package Weight	10.65 Kg

Product Details

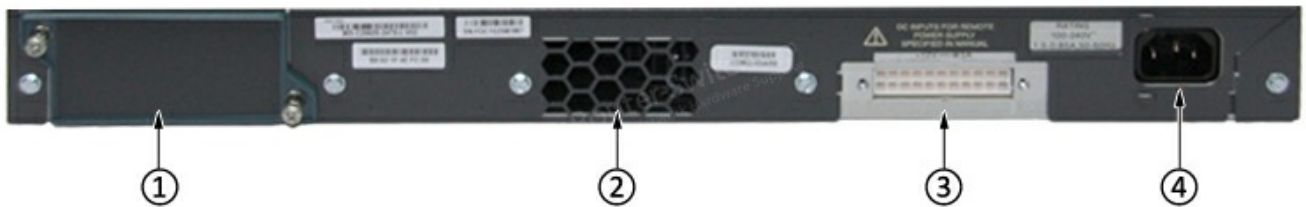
Figure 2 shows the front panel of the WS-C2960S-48FPD-L.



Note:

(1)	48 x Ethernet 10/100/1000 PoE+ ports	(4)	RJ45 Console Port
(2)	USB Type A Port	(5)	Ethernet Management Port
(3)	USB mini-Type B (console) Port	(6)	SFP Module Slots

Figure 3 shows the back panel of the WS-C2960S-48FPD-L.



Note:

(1)	1 (total) / 1 (free) x Stacking Module	(3)	RPS Connector
(2)	Fan Exhaust	(4)	AC power connector

The Accessories

Table 2 shows some accessories of the WS-C2960S-48FPD-L.

Models	Description
C2960S-STACK	Catalyst 2960S FlexStack Stack Module optional for LAN Base
GLC-LH-SM	GE SFP, LC connector LX/LH transceiver
GLC-SX-MMD	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM
CAB-CONSOLE-RJ45	Console Cable 6ft with RJ45 and DB9F

Compare to Similar Items

Table 3 shows the comparison of similar items.

Models	WS-C2960S-48FPS-L	WS-C2960S-48FPD-L
Ports	48 x Ethernet 10/100/1000 PoE+ ports	48 x Ethernet 10/100/1000 PoE+ ports
PoE Capacity	740W	740W
Uplinks	4 x 1G SFP	2 x 10G SFP
Feature Set	LAN Base	LAN Base
Stackable	Yes	Yes

Get more information

Do you have any question about the WS-C2960S-48FPD-L?

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Specification

WS-C2960S-48FPD-L Specification	
General Information	
Device Type	Switch - 48 ports - Managed
Enclosure Type	Rack-mountable - 1U
Ports	48 x 10/100/1000 + 2 x 10 Gigabit SFP+
Power Over Ethernet (PoE)	Yes
Performance	Switching capacity : 176 Gbps Forwarding performance (64-byte packet size) : 101.2 Mpps
MAC Address Table Size	8K entries
Remote Management Protocol	SNMP 1, SNMP 2, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, SNMP 2c, HTTP, HTTPS, TFTP, SSH
Encryption Algorithm	SSL
Authentication Method	Secure Shell (SSH), RADIUS, TACACS+
Features	Layer 2 switching, auto-sensing per device, dynamic IP address assignment , power over Ethernet (PoE), auto-negotiation, BOOTP support, ARP support, load balancing, VLAN support, auto-uplink (auto MDI/MDI-X), IGMP snooping, Syslog support, DiffServ support, Broadcast Storm Control, IPv6 support, Multicast Storm Control, Unicast Storm Control, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, DHCP snooping, Dynamic Trunking Protocol (DTP) support, Port Aggregation Protocol (PAgP) support, Access Control List (ACL) support, Quality of Service (QoS), PoE+, Link Aggregation Control Protocol (LACP), Port Security, MAC Address Notification, Remote Switch Port Analyzer (RSPAN)
Compliant Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3af, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.3ah, IEEE 802.1ab (LLDP), IEEE 802.3at
RAM	128 MB
Flash Memory	64 MB Flash
Status Indicators	Port status, link activity, port transmission speed, port duplex mode, power, system
Expansion / Connectivity	

Interfaces	48 x 10Base-T/100Base-TX/1000Base-T - RJ-45 - PoE USB : 1 x 4 pin USB Type A 1 x console - mini-USB Type B - management 1 x console - RJ-45 - management 1 x 10Base-T/100Base-TX - RJ-45 - management 2 x SFP+
Expansion Slot(s)	1 (total) / 1 (free) x Stacking Module
Power	
Power Device	Power supply - internal
Voltage Required	AC 120/230 V (50/60 Hz)
Power Consumption Operational	81 Watt
Miscellaneous	
Width	17.5 in (44.5 cm)
Depth	15.2 in (38.6 cm)
Height	1.8 in (4.5 cm)
Weight	13 lb (5.9 Kg)
Package Weight	23.5 lb (10.65 Kg)
Rack Mounting Kit	Optional
MTBF	183,498 hour(s)
Compliant Standards	TUV GS, CISPR 22 Class A, GOST, BSMI CNS 13438 Class A, CISPR 24, NOM, VCCI Class A ITE, EN55024, CB, EMC, MIC, IEC 60950-1, EN 60950-1, UL 60950-1 Second Edition, RoHS, CSA C22.2 No. 60950-1, FCC Part 15 B Class A
Software / System Requirements	
Software Included	Cisco IOS LAN Base
Service & Support	Limited lifetime warranty
Service & Support Details	Limited warranty - replacement - lifetime - response time: next business day Limited warranty - power supply and fans - 5 years New releases update
Environmental Parameters	
Min Operating Temperature	23 °F
Max Operating Temperature	104 °F
Humidity Range Operating	10 - 95% (non-condensing)
Min Storage Temperature	-13 °F
Max Storage Temperature	158 °F
Humidity Range Storage	10 - 95% (non-condensing)

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