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## Overview

Cisco Catalyst 2960X series 24 ports LAN Base stackable switch delivers Power over Ethernet Plus (PoE+) technology and 2 x 10G SFP+ uplink ports.

### Quick Specs

Figure 1 shows the appearance of WS-C2960X-24PD-L.



Table 1 shows the Quick Specs.

Product Code	WS-C2960X-24PD-L
Enclosure Type	Rack-mountable - 1U
Feature Set	LAN Base
Uplink Interfaces	2 x 10G SFP+
Ports	24 x 10/100/1000 Ethernet Gigabit ports
Available PoE Power	370W
Maximum stacking number	8
Stack bandwidth	80G
Forwarding Performance	95.2Mpps
Switching Bandwidth	216Gbps
RAM	512 MB
Flash Memory	128 MB
Dimensions	44.5cm x 27.9cm x 4.45cm
Package Weight	9.19 Kg

### Product Details

Figure 2 shows the front panel of WS-C2960X-24PD-L.



Note:

- |                                    |                            |
|------------------------------------|----------------------------|
| (1) Ethernet management port       | (6) SFP module ports       |
| (2) Mode button                    | (7) 24 x 10/100/1000 ports |
| (3) Switch LEDs                    | (8) CONSOLE LED            |
| (4) USB mini-Type B (console) port | (9) MGMT LED               |
| (5) USB Type A ports               | (10) RJ-45 console port    |

The Switch LEDs include SYST, STAT, SPEED, RPS, MAST, POE and STACK LEDs.

Figure 3 shows the back panel of WS-C2960X-24PD-L.



Note:

- |  |                        |
|--|------------------------|
| (1) FlexStack-Plus module slot and cover | (3) RPS Connector      |
| (2) Fan Exhaust                          | (4) AC power connector |

Figure 4 shows the stackable capacity.

This C2960X switch delivers stackable capacity that supports up to 8 switches stacking with same 2960-X LAN base series. It also can stack up to 4 switches stacking when mixed with 2960-S LAN base series switches.



## The Accessories

Table 2 shows some accessories of WS-C2960X-24PD-L.

Models	Description
<a href="#">C2960X-STACK</a>	Catalyst 2960-X FlexStack Plus Stacking Module
<a href="#">CAB-STK-E-0.5M</a>	Cisco FlexStack Stacking Cables
<a href="#">GLC-LH-SMD</a>	Cisco GLC-LH-SMD 1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM
<a href="#">GLC-SX-MMD</a>	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM
<a href="#">CAB-CONSOLE-RJ45</a>	Console Cable 6ft with RJ45 and DB9F
<a href="#">CAB-CONSOLE-USB</a>	Console Cable 6 ft with USB Type A and mini-B

## Get more information

Do you have any question about WS-C2960X-24PD-L?

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## Specification

WS-C2960X-24PD-L Specification	
Enclosure type	Rack-mountable - 1U
Ports	24 x 10/100/1000 + 2 x 10G SFP+
Network management Interface	10/100 Mbps Ethernet (RJ-45)
Available PoE Power	370W
Forwarding bandwidth(Gbps)	108Gbps
Maximum stacking number	8
Stack Bandwidth	80 G
Forwarding Performance	95.2Mpps
Switching bandwidth	216Gbps
Maximum active VLANs	1023

MAC Address Table Size	16K (default)
CPU	APM86392 600MHz dual core
RAM	256 MB
Flash Memory	64 MB
Status Indicators	Per-port status: Link integrity, disabled, activity, speed, and full duplex System status: System, RPS, Stack link status, link duplex, PoE, and link speed
<b>Expansion / Connectivity</b>	
Console ports	USB (Type-B), Ethernet (RJ-45)
Stacking cable	Optional
Power Redundancy	Option (PWR-RPS2300)
Voltage range (Auto)	110V-240V
Power Consumption Operational	0.49KVA
<b>Miscellaneous</b>	
Width	17.5 Inches (44.5 cm)
Depth	14.5 Inches (36.8 cm)
Height	1.75 Inches (4.5 cm)
Weight	12.7 lb (5.7 Kg)
Package Weight	20.26 lb (9.19 Kg)
Rack Mounting Kit	optional
MTBF in hours	325,780
Compliant Standards	<ul style="list-style-type: none"> <li>● IEEE 802.1D Spanning Tree Protocol</li> <li>● IEEE 802.1p CoS Prioritization</li> <li>● IEEE 802.1Q VLAN</li> <li>● IEEE 802.1s</li> <li>● IEEE 802.1w</li> <li>● IEEE 802.1X</li> <li>● IEEE 802.1ab (LLDP)</li> <li>● IEEE 802.3ad</li> <li>● IEEE 802.3af and IEEE 802.3at</li> <li>● IEEE 802.3ah (100BASE-X single/multimode fiber only)</li> <li>● IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports</li> <li>● IEEE 802.3 10BASE-T</li> <li>● IEEE 802.3u 100BASE-TX</li> <li>● IEEE 802.3ab 1000BASE-T</li> <li>● IEEE 802.3z 1000BASE-X</li> <li>● RMON I and II standards</li> <li>● SNMP v1, v2c, and v3</li> <li>● IEEE 802.3az</li> <li>● IEEE 802.1ax</li> </ul>
<b>System software / license</b>	
System software	IOS LAN BASE
license	NERGY-MGT-100-K9, EW-DO-100-DE

features	<ul style="list-style-type: none"> <li>●Jumbo Frames</li> <li>●VLANs</li> <li>●Voice Vlan</li> <li>●VTPv2</li> <li>●CDPv2</li> <li>●LLDP</li> <li>●802.3ad LACP</li> <li>●PVST/PVST+</li> <li>●802.1W/802.1S</li> <li>●Port Fast/Uplink Fast</li> <li>●port CoS Trust and Override</li> <li>●Scheduling</li> <li>●Priority Queuing</li> <li>●Configure CoS Priority Queues</li> <li>●Weighted Tail Drop</li> <li>●DSCP transparency</li> </ul>
Network security	<ul style="list-style-type: none"> <li>●SSH, SSL and SCP</li> <li>●RADIUS and TACACS+</li> <li>●SNMPv3 crypto</li> <li>●802.1x</li> <li>●802.1x Accounting / MIB</li> <li>●802.1x w/ port security</li> <li>●802.1x w/Voice VLAN</li> <li>●802.1x Guest VLAN</li> <li>●802.1x VLAN assignment</li> <li>●802.1x MAC-Auth Bypass</li> <li>●BPDU/Root Guard</li> <li>●Port Security</li> <li>●Private VALN Edge</li> <li>●Storm Control</li> <li>●Block unknown unicast and multicast</li> <li>●IGMP Snooping</li> <li>●IGMP Filter/Throttle</li> </ul>
Management and Troubleshooting	<ul style="list-style-type: none"> <li>●Auto-MDOX</li> <li>●TDR</li> <li>●UDLD</li> <li>●IP SLA Responder</li> <li>●layer 2 / IP Traceroute</li> <li>●SPAN</li> <li>●RSPAN</li> <li>●Express Setup</li> <li>●Device Manager</li> <li>●Cisco Network Assistant</li> <li>●Smartports + Advisor</li> <li>●Troubleshooting Advisor</li> <li>●Drag-and-drop Cisco IOS Upgrade</li> <li>●IP Address DHCP</li> <li>●Autoinstall with saved configuration</li> <li>●Configuration Replace</li> <li>●DHCP Auto Image Upgrade</li> <li>●DHCP Port Based Allocation</li> <li>●Error Disable MIB</li> </ul>
<b>Environmental Ranges</b>	
Operating temperature up to 5000 ft (1500 m)	23°F to 113°F (-5°C to 45°C)
Operating temperature up to 10,000 ft (3000 m)	23°F to 104°F (-5°C to 40°C)
Short-term exception at sea level*	23°F to 131°F (-5°C to 55°C)
Short-term exception up to 5000 feet (1500 m)*	23°F to 122°F (-5°C to 50°C)
Short-term exception up to 10,000 feet (3000 m)*	23°F to 113°F (-5°C to 45°C)
Short-term exception up to 13,000 feet (4000 m)*	23° to 104°F (-5°C to 40°C)

Storage temperature up to 15,000 feet (4573 m)	-13° to 158°F (-25° to 70°C)
Operating altitude	Up to 10,000 Feet (Up to 3000 Meters)
Storage altitude	Up to 13,000 (Up to 4000 Meters)
Operating relative humidity	10% to 95% noncondensing
Storage relative humidity	10% to 95% noncondensing

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