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## Overview

Cisco Catalyst 2960-XR series switches offer power resiliency with optional dual field-replaceable power supplies and IP Lite Cisco IOS software with dynamic routing and Layer 3 features. WS-C2960XR-48FPD-I is one of 2960-XR switches, IP Lite switch, supporting forty-eight 10/100/1000 Ethernet ports with POE+ and two 10G SFP+ uplink interfaces. IP Lite Image enables basic access layer 3 routing features, such as RIPV1, V2, OSPF stub, EIGRP stub, HSRP, VRRP, PIM stub, etc.

## Quick Specs

Table 1 shows the Quick Specs.

Product Code	WS-C2960XR-48FPD-I
Enclosure Type	Rack-mountable - 1U
Feature Set	IP Lite
Uplink Interfaces	2 x 10G SFP+
Ports	48 x 10/100/1000 (POE+)
Available PoE Power	740W
Forwarding Bandwidth	108Gbps
Maximum stacking number	8
Stack bandwidth	80G
Switching Bandwidth	216Gbps
RAM	512 MB
Flash Memory	128 MB
Dimensions	44.5 cm x 40.8 cm x 4.45 cm

## Product Details

Figure 1 shows the front panel of WS-C2960XR-48FPD-I.



Note:

- There are Forty-eight 10/100/1000 Ethernet Gigabit Ports and two 10G SFP+ uplink Ports on the front panel.
- Two USB Type A ports and one USB mini-Type B (console) port are on the left.

·This switch offers one RJ-45 console port and one Ethernet management port on the left of the front panel.

·Power over Ethernet Plus(PoE+) supports up to 740W of PoE budget for 24 ports with 30W per port or 48 ports with 15.4W per port.

Figure 2 shows the back panel of WS-C2960XR-48FPD-I.



Note:

(1)	FlexStack-Plus module slot and cover	(4)	PS OK LED
(2)	Power supply slot (with blank module)	(5)	AC power connector on the power supply module
(3)	AC OK LED		

The WS-C2960XR-48FPD-I supports stacking with the optional stack kit. It has the FlexStack-Plus module (hot-swappable) that inserts in the slot located in the switch rear panel, and a 0.5-meter FlexStack cable to connect the FlexStack-Plus module ports. The stack module should purchase separately.

## The Accessories

Table 2 shows some accessories of WS-C2960XR-48FPD-I.

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

## Compare to Similar Items

Table 3 shows the comparison of similar items.

Models	WS-C2960XR-48FPD-I	<a href="#">WS-C2960XR-48LPD-I</a>
Ports	48 x 10/100/1000 (POE+)	48 x 10/100/1000 (POE+)
Available PoE Power	740W	370W
Uplinks	2 x 10 Gigabit SFP+	2 x 10 Gigabit SFP+
Feature Set	IP Lite	IP Lite
FlexStack-Plus Stacking	Optional	Optional

Get more information

Do you have any question about the Cisco Catalyst 2960XR-48FPD-I switch?

Contact us now via [Live Chat](#) or [sales@router-switch.com](mailto:sales@router-switch.com).

## Specification

<b>WS-C2960XR-48FPD-I Specification</b>	
Enclosure type	Rack-mountable - 1U
Ports	48 x 10/100/1000 (POE+) + 2 x 10 Gigabit SFP+
Network management Interface	10/100 Mbps Ethernet (RJ-45)
Available PoE Power	740W
Forwarding bandwidth(Gbps)	108Gbps
Maximum stacking number	8
Stack Bandwidth	80G
Forwarding Performance	130.9Mpps
Switching bandwidth	216Gbps
Maximum active VLANs	1023
MAC Address Table Size	16K (default)
CPU	APM86392 600MHz dual core
RAM	512 MB
Flash Memory	128 MB
Status Indicators	<ul style="list-style-type: none"><li>● Per-port status: Link integrity, disabled, activity, speed, and full duplex</li><li>● System status: System, RPS, PoE, Stack link status, link duplex, and link speed</li></ul>
<b>Expansion / Connectivity</b>	
Console ports	USB (Type-B), Ethernet (RJ-45)
Expansion Slot(s)	1 FlexStack-Plus slot and 1 power redundant slot
Stack Modules	C2960X-STACK
Stacking cable	<ul style="list-style-type: none"><li>● CAB-STK-E-0.5M FlexStack-Plus stacking cable with a 0.5 m length</li><li>● CAB-STK-E-1M FlexStack-Plus stacking cable with a 1.0 m length</li><li>● CAB-STK-E-3M FlexStack-Plus stacking cable with a 3.0 m length</li></ul>
Power supply	PWR-C2-250WAC
Power Device	Power supply - redundant - plug-in module
Power Redundancy	optional
Voltage range (Auto)	110V-240V
Power Consumption Operational	0.89kVA
<b>Miscellaneous</b>	
Width	17.5 Inches (44.5 cm)
Depth	16 Inches (40.8 cm)

Height	1.75 Inches (4.45 cm)
Weight	14.6 Pounds (6.6 Kg)
Rack Mounting Kit	Optional
MTBF in hours	231,590
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 802.3ae 10Gigabit Ethernet</li> <li>● IEEE 802.1ax</li> </ul>
<b>System software / license</b>	
System software	IOS IP Lite
license	ENERGY-MGMT, ENERGY-MGT-100-K9
features	<ul style="list-style-type: none"> <li>● IP unicast routing protocols (Static, Routing Information Protocol Version 1 [RIPv1], RIPv2, RIPv6, and EIGRP-Stub)</li> <li>● Advanced IP unicast routing protocols (OSPF for Routed Access)</li> <li>● EIGRPv3-Stub and PIMv6-Stub are supported as a part of the IPv6 routing suite.</li> <li>● Equal-cost routing</li> <li>● Policy-based routing (PBR)</li> <li>● Hot Standby Routing Protocol (HSRP) and Virtual Router Redundancy Protocol (VRRP)</li> <li>● Protocol Independent Multicast (PIM)</li> </ul>
Network security	<ul style="list-style-type: none"> <li>● MAC-based VLAN assignment enables ● Cisco TrustSec uses</li> <li>● Comprehensive 802.1X ● IPv6 First-Hop Security</li> <li>● Device Sensor and Device Classifier ● Cisco Trust Anchor Technology</li> <li>● Cisco Threat Defense ● Private VLANs</li> <li>● Unicast Reverse Path Forwarding (uRPF) ● Multidomain Authentication</li> <li>● Access Control Lists (ACLs) ● Switched Port Analyzer (SPAN)</li> <li>● Secure Shell (SSH) Protocol, Kerberos, and Simple Network Management Protocol Version 3 (SNMPv3)</li> <li>● TACACS+ and RADIUS authentication ● MAC Address Notification</li> <li>● Multilevel security on console access ● BPDU Guard</li> <li>● Spanning Tree Root Guard (STRG) ● IGMP filtering</li> </ul>
Management & Troubleshooting	<ul style="list-style-type: none"> <li>● Auto-MDOX ● TDR ● UDLD ● IP SLA Responder</li> <li>● layer 2 / IP Traceroute ● SPAN ● RSPAN</li> <li>● Express Setup ● Device Manager ● Cisco Network Assistant</li> <li>● Smartports + Advisor ● Troubleshooting Advisor ● Drag-and-drop Cisco IOS Upgrade</li> <li>● IP Address DHCP ● Autoinstall with saved configuration ● Configuration Replace</li> <li>● DHCP Auto Image Upgrade ● DHCP Port Based Allocation ● Error Disable MIB</li> </ul>
Technical Support and Services	<ul style="list-style-type: none"> <li>● Cisco SMARTnet Service ● Cisco Smart Foundation Service ● Cisco Smart Care Service</li> <li>● Cisco SP Base Service ● Cisco Focused Technical Support Services</li> </ul>
<b>Environmental Ranges</b>	
Operating temperature up to 5000 ft (1500 m)	23°F to 113° (-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 (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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- Fax: +852-3050-1066 (Hong Kong)
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