Overview

The WS-C2960XR-48FPD-I enables you to use optional dual field-replaceable power supplies along with the Cisco IP Lite IOS software, which is essential for Layer 3 and dynamic routing features. The switch is rack mountable and comes with a stacking module, cables and other accessories. The IP Lite image allows you to employ basic access layer 3 routing features including HSRP, VRRP and RIPV1 among others.

Quick Specification

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:

The Front Panel:

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.

The back panel

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

⑤	AC power connector on the power supply module

Accessories For WS-C2960XR:

Modules and Cables:

Model	Description
C2960X-STACK	FlexStack-Plus hot-swappable stacking module
C2960X-FIBER-STK	FlexStack-Extended Fiber stacking module
C2960X-HYBRID-STK	FlexStack-Extended Hybrid module, with one copper and one fiber port
CAB-STK-E-0.5M	Stacking cable with a 0.5 m length
CAB-STK-E-1M	Stacking cable with a 1.0 m length
CAB-STK-E-3M	Stacking cable with a 3.0 m length
CAB-CONSOLE-RJ45	Console cable 6 feet with RJ-45
CAB-CONSOLE-USB	Console cable 6 feet with USB Type A and mini-B connectors
PWR-CLP	Power cable restraining clip
RCKMNT-1RU-2KX=	Spare rack-mount kit for Cisco Catalyst 2960-X and 2960-XR Series for 19-inch racks
RCKMNT-REC-2KX=	1 RU recessed rack-mount kit for Cisco Catalyst 2960-X and 2960-XR Series

Cisco Catalyst 2960-XR Series redundant power supply options:

Part number	Description
PWR-C2-250WAC	Second FRU power supply and fan for all non-PoE 2960-XR switches, provides 250W AC of power
PWR-C2-640WAC	Second FRU power supply and fan for all 370W PoE+ 2960-XR switches, provides 640W AC of power
PWR-C2-1025WAC	Second FRU power supply and fan for all 740W PoE+ 2960-XR switches, provides 1025W AC of power
PWR-C2-250WAC	Spare FRU power supply and fan for all non-PoE 2960-XR switches, provides 250W AC of power
PWR-C2-640WAC	Spare FRU power supply and fan for all 370W PoE+ 2960-XR switches, provides 640W AC of power
PWR-C2-1025WAC	Spare FRU power supply and fan for all 740W PoE+ 2960-XR switches, provides 1025W AC of power

Get more information:

Do you have any question about WS-C2960XR-48FPD-I?

Contact us now via e-mail: info@hi-network.com

Specific Data Sheet:

Product Number	WS-C2960XR-48FPD-I
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	● Per-port status: Link integrity, disabled, activity, speed, and full duplex ● System status: System, RPS, PoE, Stack link status, link duplex, and link speed
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	● CAB-STK-E-0.5M FlexStack-Plus stacking cable with a 0.5 m length ● CAB-STK-E-1M FlexStack-Plus stacking cable with a 1.0 m length ● CAB-STK-E-3M FlexStack-Plus stacking cable with a 3.0 m length
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
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	● IEEE 802.1D Spanning Tree Protocol
	● IEEE 802.1p CoS Prioritization
	● IEEE 802.1Q VLAN
	● IEEE 802.1s
	● IEEE 802.1w
	● IEEE 802.1X
	● IEEE 802.1ab (LLDP)
	● IEEE 802.3ad
	● IEEE 802.3af and IEEE 802.3at
	● IEEE 802.3ah (100BASE-X single/multimode fiber only)
	● IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports
	● IEEE 802.3 10BASE-T
	● IEEE 802.3u 100BASE-TX
	● IEEE 802.3ab 1000BASE-T
	● IEEE 802.3z 1000BASE-X
	● RMON I and II standards
	● SNMP v1, v2c, and v3
	● IEEE 802.3az
	● IEEE 802.3ae 10Gigabit Ethernet
	● IEEE 802.1ax
System software	IOS IP Lite
License	ENERGY-MGMT, ENERGY-MGT-100-K9
Features	● IP unicast routing protocols (Static, Routing Information Protocol Version 1 [RIPv1], RIPv2, RIPng, and EIGRP-Stub)
	● Advanced IP unicast routing protocols (OSPF for Routed Access)
	● EIGRPv3-Stub and PIMv6-Stub are supported as a part of the IPv6 routing suite.
	● Equal-cost routing
	● Policy-based routing (PBR)
	● Hot Standby Routing Protocol (HSRP) and Virtual Router Redundancy Protocol (VRRP)
	● Protocol Independent Multicast (PIM)
Network security	● MAC-based VLAN assignment enables
	● Cisco TrustSec uses
	● Comprehensive 802.1X
	● IPv6 First-Hop Security
	● Device Sensor and Device Classifier
	● Cisco Trust Anchor Technology
	● Cisco Threat Defense
	● Private VLANs
	● Unicast Reverse Path Forwarding (uRPF)
	● Multidomain Authentication
	● Access Control Lists (ACLs)
	● Switched Port Analyzer (SPAN)
	● Secure Shell (SSH) Protocol, Kerberos, and Simple Network Management Protocol Version 3 (SNMPv3)
	● TACACS+ and RADIUS authentication

	● MAC Address Notification
	● Multilevel security on console access BPDU Guard
	● Spanning Tree Root Guard (STRG)
	● IGMP filtering
Management & Troubleshooting	● Auto-MDOX
	●TDR
	● UDLD
	● IP SLA Responder
	● layer 2 / IP Traceroute
	● SPAN
	● RSPAN
	● Express Setup
	● Device Manager
	● Cisco Network Assistant
	● Smartports + Advisor
	● Troubleshooting Advisor
	● Drag-and-drop Cisco IOS Upgrade
	● IP Address DHCP
	● Autoinstall with saved configuration
	● Configuration Replace
	● DHCP Auto Image Upgrade
	● DHCP Port Based Allocation
	● Error Disable MIB
Technical Support and Services	● Cisco SMARTnet Service
	● Cisco Smart Foundation Service
	● Cisco Smart Care Service
	● Cisco SP Base Service
	● Cisco Focused Technical Support Services
Operating temperature up to 5000 ft (1500 m)	23ºF to 113º (-5ºC to 45ºC)
Operating temperature up to 10,000 ft (3000 m)	23ºF to 104ºF (-5ºC to 40ºC)
Short-term exception at sea level*	23ºF to 131ºF (-5ºC to 55ºC)
Short-term exception up to 5000 feet (1500 m)*	23ºF to 122ºF (-5ºC to 50ºC)
Short-term exception up to 10,000 feet (3000 m)*	23ºF to 113ºF (-5ºC to 45ºC)
Short-term exception up to 13,000 feet (4000 m)*	23º to 104ºF (-5ºC to 40ºC)
Storage temperature up to 15,000 feet (4573 m)	-13º to 158ºF (-25º to 70ºC)
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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