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Overview

The Cisco Catalyst WS-C2960XR-48FPS-I is a 48 Gigabit Ethernet port with a rack mountable enclosure. It has a forwarding bandwidth of 108 Gbps and switching bandwidth of 216 Gbps. The WS-C2960XR-48FPS-I switch has functional layer 2 and layer 3 features with a PoE power of 740W. The WS-C2960XR-48FPS-I switches are made to offer operational simplicity and enhance network reliability when deployed.

Quick Specification

Product Code	WS-C2960XR-48FPS-I
Enclosure Type	Rack-mountable – 1U
Feature Set	IP Lite
Uplink Interfaces	4 x 1G 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-48FPS-I?

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

Specific Data Sheet:

Inches (H x D x W)	1.75 x 16.0 x 17.5

Flash memory	128 MB
Switch Hibernation Mode (SHM)	places switch in very-low power mode during intervals of non-operation
Cisco AutoSecure	enables single-line Command-Line Interface (CLI)
Flexible NetFlow	next gen. for flow visibility technology
Maximum number of PoE+ (IEEE 802.3at) ports	24 ports up to 30W
2960-X LAN Base Combinations	Yes
2960-X LAN Base Combination	Yes
Unicast MAC addresses	16,000
Weighted Tail Drop (WTD)	Up to eight per port
Cross-stack EtherChannel	Cisco EtherChannel technology across diverse members of the stack
MAC-based VLAN assignment	validate on different VLANs
Product Number	WS-C2960XR-48FPS-I
Operating temperature up to 5000 ft (1500 m)	-5ºC to 45ºC
Ethernet interfaces	10BASE-T ports: RJ-45 connectors, 2-pair Category 3, 4, or 5 Unshielded Twisted-Pair (UTP) cabling
Voltage (auto ranging)	100 VAC to 264 VAC
0% traffic	44.8
DRAM	APM86392 600MHz dual core
IEEE 802.3az EEE (Energy Efficient Ethernet)	ports dynamically identify idle periods
Dynamic Host Configuration Protocol (DHCP)	a boot server simplifies switch deployment
Domain Name System as an Authoritative Source (DNS-AS)	network metadata held in a DNS server
Maximum number of PoE (IEEE 802.3af) ports	48 ports up to 15.4 W
Stack bandwidth	40G
2960-S/SF LAN Base Combination	Yes
IPv4 unicast direct routes	4000
Flow-based rate limiting	scheduling
Flexlink	convergence time under 100 milliseconds
Cisco TrustSec	security and policy enforcement
Product Series	2960XR
Centimeters (H x D x W)	4.45 x 40.8 x 44.5
Operating altitude	Up to 3000 m
Indicator LEDs	Per-port status: Link integrity, disabled, activity, speed, and full duplex
Current	10A to 5 A
10% traffic	58.5
CPU	USB (Type-B), Ethernet (RJ-45)

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Cisco EnergyWise	moderate the power consumed via PoE-powered endpoints
Stacking master configuration management	all switches are automatically upgraded to new software version
Cisco AutoConfig	hard-binding with the end device and the interface
Available PoE power (single PS source)	740 W
Stack limit	8
Stack bandwidth	80G
IPv4 unicast indirect routes	1250
802.1p class of service (CoS)	congestion avoidance
IEEE 802.1s/w Rapid Spanning Tree Protocol (RSTP)	allow rapid spanning-tree convergence
Comprehensive 802.1X	control admission to the network
Manufacturer	Cisco
Pounds	14.7
Storage altitude	Up to 4000 m
Stacking interfaces	CAB-STK-E-0.5M stacking cable with a 0.5 m length
Frequency	50 Hz to 60 Hz
100% traffic	58.8
Console ports	USB (Type-A) for external flash storage
Autonegotiation	automatically chooses half- or full-duplex transmission mode
Cisco Smart Install	automated IOS Software image installation and configuration
Stack limit	8
IPv6 unicast direct routes	4000
Cross-stack QoS	up to 256 aggregate
Per-VLAN Rapid Spanning Tree (PVRST+)	reconvergence for per-VLAN spanning-tree basis
IPv6 First-Hop Security	enhances Layer-2 and Layer-3 network access
Feature Set	IP Lite
Kilograms	6.7
Operating relative humidity	10% to 95% noncondensing
Console	CAB-CONSOLE-RJ45 Console cable 6 ft. with RJ-50
Power rating (switch maximum consumption values)	0.89 KVA
Weighted average	58.5
Storage interface	10/100 Mbps Ethernet (RJ-45)
Dynamic Trunking Protocol (DTP)	dynamic trunk configuration via all switch ports
Cisco Auto SmartPorts	automated configuration of switch ports

IPv6 unicast indirect routes	1250
The Cisco committed information rate (CIR)	classification on a per-packet basis
Switch-port auto-recovery (Error Disable)	automatically tries to reactivate a link
Device Sensor and Device Classifier	enable seamless multipurpose device profiles
Uplink Interfaces	4 SFP
Storage relative humidity	10% to 95% noncondensing
Power	The internal PS is an auto-ranging unit & tolerates input voltages between 100 and 240V AC
Network management interface	108 Gbps
Port Aggregation Protocol (PAgP)	automates the installation of Cisco Fast EtherChannel
Cisco Auto QoS	automatic configuration of QoS
IPv4 multicast routes and IGMP groups	1000
Power redundancy	an external RPS
Cisco Trust Anchor Technology	allows the switch to undergo IOS integrity checks
Available PoE Power	740 Watts
MTBF in hours	230860
Forwarding bandwidth	216 Gbps
Link Aggregation Control Protocol (LACP)	Ethernet channeling
IPv6 multicast groups	1000
Cisco Threat Defense	Port Security Dynamic ARP Inspection & IP Source Guard
10/100/1000 Ethernet interfaces (ports)	48
Switching bandwidth	1023
Automatic Media-Dependent Interface Crossover (MDIX)	adjusts transmit & receive pairs if incorrect cable type
IPv4 QoS ACEs	500
Private VLANs	controls traffic between hosts in a common segment
Stacking Bandwidth	80 Gbps
Maximum active VLANs	4096
Unidirectional Link Detection Protocol (UDLD)	incorrect fiber-optic wiring detected and disabled
IPv6 QoS ACEs	250
Unicast Reverse Path Forwarding (uRPF)	solves problems caused by malformed or forged (spoofed) IP
Maximum Stack Limit	8
VLAN IDs available	9198. bytes.
Switching Database Manager (SDM)	maximize memory allocation
IPv4 security ACEs	1000
Multidomain Authentication	enables an IP phone / PC to authenticate on the same switch port

Forwarding Rate	107.1 Mpps
Maximum transmission unit (MTU)-L3 packet	9216. bytes
Local Proxy Address Resolution Protocol (ARP)	minimize broadcasts and maximize bandwidth
IPv6 Security ACEs	500
Access Control Lists (ACLs)	security & QoS ACEs
Switching Bandwidth	216 Gbps
Jumbo frame - Ethernet frame	107.1 Mpps
VLAN1 minimization	allows VLAN1 to be disabled
Secure Shell (SSH) Protocol	allows for network security by encrypting administrator traffic
DRAM	128 MB
Internet Group Management Protocol (IGMP)	fast client joins and departures of multicast streams
TACACS+ and RADIUS authentication	simplifies centralized control of the switch
Flash Memory	14.7
Multicast VLAN Registration (MVR)	isolate the streams from subscriber VLANs for bandwidth and security
MAC Address Notification	administrators informed of users added to or removed
Weight (Pounds)	1.75 x 16.0 x 17.5
Per-port broadcast	prevents faulty end stations
Multilevel security on console access	prevents unauthorized users from changing the switch configuration
Size (Inches)	IP Lite
Voice VLAN	simplifies telephony installations
Bridge protocol data unit (BPDU) Guard	avoid mistaken topology loops
Cisco VLAN Trunking Protocol (VTP)	supports dynamic VLANs
Spanning Tree Root Guard (STRG)	prevents uncontrolled edge devices from developing Spanning Tree Protocol root nodes.
Remote Switch Port Analyzer (RSPAN)	administrators remotely check ports via Layer 2 switch
IGMP filtering	facilitates multicast authentication
Layer 2 trace route	simplifies troubleshooting
Trivial File Transfer Protocol (TFTP)	lowers the price of administering software upgrades

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