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Overview

Cisco catalyst 2960X-48LPD-L LAN Base Layer 2 stackable switch is comprised of 48 Ethernet 10/100/1000 ports with POE+ and 2 x 10G SFP+ uplink interfaces

Quick Specification

Product Code	WS-C2960X-48LPD-L
Enclosure Type	Rack-mountable – 1U
Feature Set	LAN Base
Uplink Interfaces	2 x 10G SFP+
Ports	48 x 10/100/1000
Available PoE Power	370W
Maximum stacking number	8
Stack bandwidth	80G
Forwarding Performance	130.9Mpps
Switching Bandwidth	216Gbps
RAM	512 MB
Flash Memory	128 MB
Dimensions	44.5 cm x 36.8 cm x 4.5 cm
Package Weight	10.65 Kg

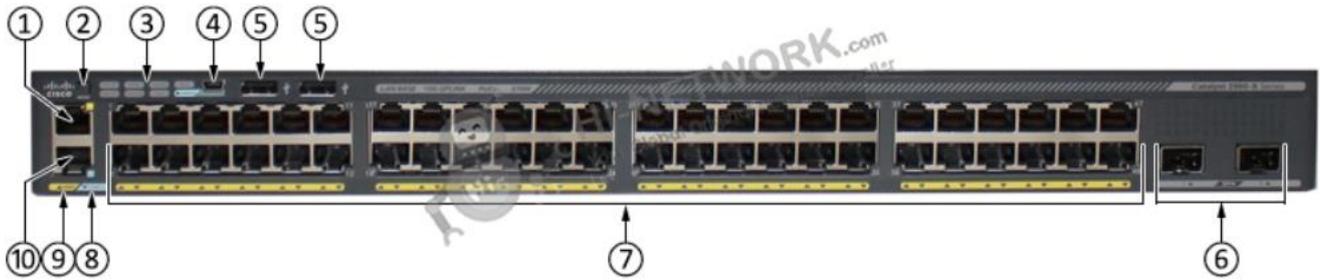


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Product Details:

The Front Panel:



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

The Back Panel:



①	RJ-45 console port
②	Fan exhaust





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③	RPS connector
④	AC power connector

Accessories For WS-C2960X:

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-X Series redundant power supply options:

Part number	Description
PWR-RPS2300	Cisco Redundant Power System 2300 and blower, no power supply
BLNK-RPS2300=	Spare bay insert for Cisco Redundant Power System 2300 for Cisco Catalyst 2960-X Series Switches
CAB-RPS2300-E=	Spare RPS 2300 cable for Cisco Catalyst 2960-X Series Switches
BLWR-RPS2300=	Spare 45 CFM blower for RPS 2300
C3K-PWR-750WAC=	RPS 2300 750W AC power supply spare for Cisco Catalyst 2960-X Series

Get more information:

Do you have any question about WS-C2960X-48LPD-L?

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Specific Data Sheet:

Product Number	WS-C2960X-48LPD-L
MAC-based VLAN assignment	validate on different VLANs
Cross-stack EtherChannel	Cisco EtherChannel technology across diverse members of the stack
Weighted Tail Drop (WTD)	Up to eight per port
Unicast MAC addresses	16,000
2960-X LAN Base Combination	Yes
2960-X LAN Base Combinations	Yes
Maximum number of PoE+ (IEEE 802.3at) ports	12 ports up to 30W
Flexible NetFlow	next gen. for flow visibility technology
Cisco AutoSecure	enables single-line Command-Line Interface (CLI)
Switch Hibernation Mode (SHM)	places switch in very-low power mode during intervals of non-operation
Flash memory	128 MB
Inches (H x D x W)	1.75 x 14.5 x 17.5
Operating temperature up to 5000 ft (1500 m)	-5°C to 45°C
Ethernet interfaces	10BASE-T ports: RJ-45 connectors, 2-pair Category 3, 4, or 5 Unshielded Twisted-Pair (UTP) cabling
Voltage (auto ranging)	106 to 240 VAC
0% traffic	46.7
Product Series	2960X
Cisco TrustSec	security and policy enforcement
Flexlink	convergence time under 100 milliseconds
Flow-based rate limiting	scheduling
IPv4 unicast direct routes	2000
2960-S/SF LAN Base Combination	Yes
Stack bandwidth	40G
Maximum number of PoE (IEEE 802.3af) ports	24 ports up to 15.4W
Domain Name System as an Authoritative Source (DNS-AS)	network metadata held in a DNS server
Dynamic Host Configuration Protocol (DHCP)	a boot server simplifies switch deployment
IEEE 802.3az EEE (Energy Efficient Ethernet)	ports dynamically identify idle periods
DRAM	512 MB
Centimeters (H x D x W)	4.5 x 36.8 x 44.5
Operating altitude	Up to 3000 m



WS-C2960X-48LPD-L Datasheet



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Indicator LEDs	Per-port status: Link integrity, disabled, activity, speed, and full duplex
Current	56 to 60 Hz
10% traffic	60.8
Manufacturer	Cisco
Comprehensive 802.1X	control admission to the network
IEEE 802.1s/w Rapid Spanning Tree Protocol (RSTP)	allow rapid spanning-tree convergence
802.1p class of service (CoS)	congestion avoidance
IPv4 unicast indirect routes	1000
Stack bandwidth	80G
Stack limit	8
Available PoE power (single PS source)	370W
Cisco AutoConfig	hard-binding with the end device and the interface
Stacking master configuration management	all switches are automatically upgraded to new software version
Cisco EnergyWise	moderate the power consumed via PoE-powered endpoints
CPU	APM86392 600MHz dual core
Pounds	12.9 lb
Storage altitude	Up to 4000 m
Stacking interfaces	CAB-STK-E-0.5M stacking cable with a 0.5 m length
Frequency	5A - 2A
100% traffic	61.1
Feature Set	LAN Base
IPv6 First-Hop Security	enhances Layer-2 and Layer-3 network access
Per-VLAN Rapid Spanning Tree (PVRST+)	reconvergence for per-VLAN spanning-tree basis
Cross-stack QoS	up to 256 aggregate
IPv6 unicast direct routes	2000
Stack limit	8
Cisco Smart Install	automated IOS Software image installation and configuration
Autonegotiation	automatically chooses half- or full-duplex transmission mode
Console ports	USB (Type-B), Ethernet (RJ-45)
Kilograms	5.8 Kg
Operating relative humidity	10% to 95% noncondensing
Console	CAB-CONSOLE-RJ45 Console cable 6 ft. with RJ-51
Power rating (switch maximum consumption values)	0.49 kVA





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Weighted average	60.9
Uplink Interfaces	4 SFP
Device Sensor and Device Classifier	enable seamless multipurpose device profiles
Switch-port auto-recovery (Error Disable)	automatically tries to reactivate a link
The Cisco committed information rate (CIR)	classification on a per-packet basis
IPv6 unicast indirect routes	1000
Cisco Auto SmartPorts	automated configuration of switch ports
Dynamic Trunking Protocol (DTP)	dynamic trunk configuration via all switch ports
Storage interface	USB (Type-A) for external flash storage
Storage relative humidity	10% to 95% noncondensing
Power	The internal PS is an auto-ranging unit & tolerates input voltages between 100 and 240V AC
DC input voltages (RPS input) 12V	4A
Available PoE Power	370W
Cisco Trust Anchor Technology	allows the switch to undergo IOS integrity checks
Power redundancy	an external RPS
IPv4 multicast routes and IGMP groups	1000
Cisco Auto QoS	automatic configuration of QoS
Port Aggregation Protocol (PAgP)	automates the installation of Cisco Fast EtherChannel
Network management interface	10/100 Mbps Ethernet (RJ-45)
MTBF in hours	276870
DC input voltages (RPS input) 53V	8A
10/100/1000 Ethernet interfaces (ports)	48
Cisco Threat Defense	Port Security Dynamic ARP Inspection & IP Source Guard
IPv6 multicast groups	1000
Link Aggregation Control Protocol (LACP)	Ethernet channeling
Forwarding bandwidth	50. Gbps
Stacking Bandwidth	80G
Private VLANs	controls traffic between hosts in a common segment
IPv4 QoS ACEs	500
Automatic Media-Dependent Interface Crossover (MDIX)	adjusts transmit & receive pairs if incorrect cable type
Switching bandwidth	100Gbps
Maximum Stack Limit	8
Unicast Reverse Path Forwarding (uRPF)	solves problems caused by malformed or forged (spoofed) IP
IPv6 QoS ACEs	500



WS-C2960X-48LPD-L Datasheet



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Unidirectional Link Detection Protocol (UDLD)	incorrect fiber-optic wiring detected and disabled
Maximum active VLANs	64
Forwarding Rate	107.1 Mpps
Multidomain Authentication	enables an IP phone / PC to authenticate on the same switch port
IPv4 security ACEs	600
Switching Database Manager (SDM)	maximize memory allocation
VLAN IDs available	4096
Switching Bandwidth	100Gbps
Access Control Lists (ACLs)	security & QoS ACEs
IPv6 Security ACEs	600
Local Proxy Address Resolution Protocol (ARP)	minimize broadcasts and maximize bandwidth
Maximum transmission unit (MTU)-L3 packet	9198. bytes.
DRAM	512 MB
Secure Shell (SSH) Protocol	allows for network security by encrypting administrator traffic
VLAN1 minimization	allows VLAN1 to be disabled
Jumbo frame - Ethernet frame	9216. bytes
Flash Memory	128 MB
TACACS+ and RADIUS authentication	simplifies centralized control of the switch
Internet Group Management Protocol (IGMP)	fast client joins and departures of multicast streams
Forwarding rate: 64-Byte Layer 3 packets	107.1 Mpps
Weight (Pounds)	12.9 lb
MAC Address Notification	administrators informed of users added to or removed
Multicast VLAN Registration (MVR)	isolate the streams from subscriber VLANs for bandwidth and security
Size (Inches)	1.75 x 14.5 x 17.5
Multilevel security on console access	prevents unauthorized users from changing the switch configuration
Per-port broadcast	prevents faulty end stations
Software	Cisco ONE Software
Bridge protocol data unit (BPDU) Guard	avoid mistaken topology loops
Voice VLAN	simplifies telephony installations
Spanning Tree Root Guard (STRG)	prevents uncontrolled edge devices from developing Spanning Tree Protocol root nodes.
Cisco VLAN Trunking Protocol (VTP)	supports dynamic VLANs
IGMP filtering	facilitates multicast authentication
Remote Switch Port Analyzer (RSPAN)	administrators remotely check ports via Layer 2 switch
Layer 2 trace route	simplifies troubleshooting
Trivial File Transfer Protocol (TFTP)	lowers the price of administering software upgrades

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HongKong Office Tel: +00852-66181601

HangZhou Office Tel: +0086-571-86729517

Email: info@hi-network.com

Skype: echo.hinetwork

WhatsApp Business: +8618057156223

