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## Overview

Cisco Catalyst 2960X Series 48 ports LAN Lite switch is comprised of 48 x Ethernet 10/100/1000 ports and 2 x 1G SFP uplink interfaces. LAN Lite image functions basic needs for layer 2 switching and does not support stacking

## Quick Specification

Product Code	WS-C2960X-48TS-LL
Enclosure Type	Rack-mountable – 1U
Feature Set	LAN Lite
Uplink Interfaces	2 x 1G SFP
Ports	48 x Ethernet 10/100/1000 Gigabit ports
Forwarding Performance	50Gbps
Switching Bandwidth	100Gbps
RAM	256 MB
Flash Memory	64 MB
Dimensions	44.5 cm x 27.9 cm x 4.5 cm
Package Weight	9.19 Kg

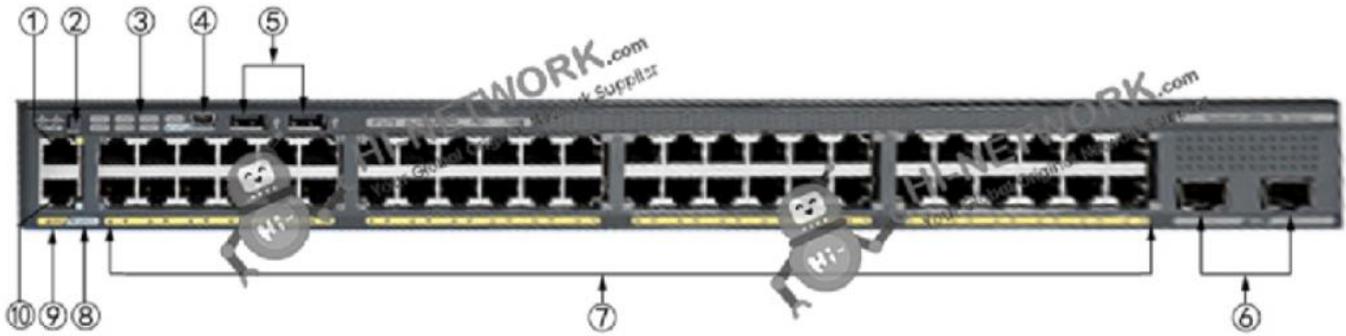


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**Product Details:**

**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





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## The Back Panel:



①	Fan exhaust
②	RPS connector
③	AC power connector

## Accessories For WS-C2960X:

### Recommended Elements:

Model	Description
<a href="#">C2960X-STACK</a>	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
<a href="#">CAB-STK-E-3M</a>	Stacking cable with a 3.0 m length
<a href="#">CAB-CONSOLE-RJ45</a>	Console cable 6 feet with RJ-45
<a href="#">CAB-CONSOLE-USB</a>	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

Get more information:





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Do you have any question about WS-C2960X-48TS-LL?

Contact us now via e-mail: [info@hi-network.com](mailto:info@hi-network.com)

## Specific Data Sheet:

Product Number	WS-C2960X-48TS-LL
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 Combinations	Yes
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	256 MB
Inches (H x D x W)	1.75 x 11.0 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)	111 to 240 VAC
0% traffic	31.4
Product Series	2960X
DRAM	APM86392 600MHz dual core
Cisco TrustSec	security and policy enforcement
Flexlink	convergence time under 100 milliseconds
Flow-based rate limiting	scheduling
IPv4 unicast direct routes	320
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	APM86392 600MHz dual core
Centimeters (H x D x W)	4.5 x 27.9 x 44.5
Operating altitude	Up to 3000 m
Indicator LEDs	Per-port status: Link integrity, disabled, activity, speed, and full duplex
Current	61 to 60 Hz



# WS-C2960X-48TS-LL Datasheet



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10% traffic	44.3
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	32
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	USB (Type-B), Ethernet (RJ-45)
Pounds	8.9 lb
Storage altitude	Up to 4000 m
Stacking interfaces	CAB-STK-E-0.5M stacking cable with a 0.5 m length
Frequency	1A - 0.5A
100% traffic	44.5
Feature Set	LAN Lite
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	256
Cisco Smart Install	automated IOS Software image installation and configuration
Autonegotiation	automatically chooses half- or full-duplex transmission mode
Console ports	USB (Type-A) for external flash storage
Kilograms	4.0 kg
Operating relative humidity	10% to 95% noncondensing
Console	CAB-CONSOLE-RJ45 Console cable 6 ft. with RJ-56
Power rating (switch maximum consumption values)	0.46KVA
Weighted average	44.4
Uplink Interfaces	2 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	0





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Cisco Auto SmartPorts	automated configuration of switch ports
Dynamic Trunking Protocol (DTP)	dynamic trunk configuration via all switch ports
Storage interface	216Gbps
Storage relative humidity	10% to 95% noncondensing
Power	The internal PS is an auto-ranging unit & tolerates input voltages between 100 and 240V AC
Available PoE Power	48
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	1023
MTBF in hours	476560
10/100/1000 Ethernet interfaces (ports)	104.2 Mpps
Cisco Threat Defense	Port Security Dynamic ARP Inspection & IP Source Guard
IPv6 multicast groups	1000
Link Aggregation Control Protocol (LACP)	Ethernet channeling
Forwarding bandwidth	4096
Stacking Bandwidth	216Gbps
Switching Bandwidth	9198. bytes.
Private VLANs	controls traffic between hosts in a common segment
IPv4 QoS ACEs	384
Automatic Media-Dependent Interface Crossover (MDIX)	adjusts transmit & receive pairs if incorrect cable type
Switching bandwidth	9198. bytes.
Maximum Stack Limit	256 MB
Unicast Reverse Path Forwarding (uRPF)	solves problems caused by malformed or forged (spoofed) IP
IPv6 QoS ACEs	256
Unidirectional Link Detection Protocol (UDLD)	incorrect fiber-optic wiring detected and disabled
Maximum active VLANs	9216. bytes
Forwarding Rate	8.9 lb
Multidomain Authentication	enables an IP phone / PC to authenticate on the same switch port
IPv4 security ACEs	256
Switching Database Manager (SDM)	maximize memory allocation
VLAN IDs available	104.2 Mpps





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Access Control Lists (ACLs)	security & QoS ACEs
IPv6 Security ACEs	256
Local Proxy Address Resolution Protocol (ARP)	minimize broadcasts and maximize bandwidth
Secure Shell (SSH) Protocol	allows for network security by encrypting administrator traffic
VLAN1 minimization	allows VLAN1 to be disabled
TACACS+ and RADIUS authentication	simplifies centralized control of the switch
Internet Group Management Protocol (IGMP)	fast client joins and departures of multicast streams
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
Multilevel security on console access	prevents unauthorized users from changing the switch configuration
Per-port broadcast	prevents faulty end stations
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
Network Timing Protocol (NTP)	correct and reliable timestamp

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