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Overview

Cisco Catalyst 2960-Plus 48 Ports LAN Base Switches, supporting 48 x 10/100 ports, are designed for branches, conventional office workspaces, and infrastructure networks.

Quick Specs

Figure 1 shows the appearance of the WS-C2960+48TC-L.

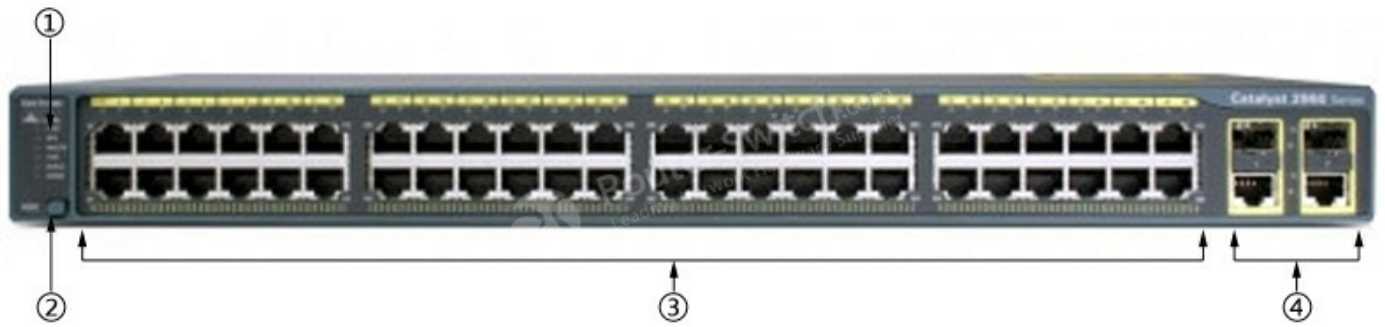


Table 1 shows the Quick Specs.

Product Code	WS-C2960+48TC-L
Enclosure Type	Rack-mountable 1U
Feature Set	LAN Base
Uplink Interfaces	2 (SFP or 1000BASE-T)
Ports	48 x 10/100 Ethernet Ports
Forwarding Bandwidth	16 Gbps
Forwarding Performance	6.5 Mpps
RAM	128 MB
Flash Memory	64 MB
Dimensions	4.4cm x 45.0 cm x 24.2 cm
Package Weight	7.73 Kg

Product Details

Figure 2 shows the front panel.



Note:

(1) Switch LEDs (2) Mode button (3) 48*10/100 ports (4) Dual-purpose ports

·The switch LEDs include SYST, RPS, Status, Duplex and Speed LED.

·Dual-purpose ports support SFP or 1000BASE-T uplink port.

Figure 3 shows the back panel.



Note:

(1) RJ-45 console port (2) Fan exhaust (3) RPS connector (4) AC power connector

The Accessories

Table 2 shows the accessories of the WS-C2960+48TC-L.

Models	Description
CAB-CONSOLE-RJ45	Console Cable 6ft with RJ45 and DB9F
GLC-LH-SM	GE SFP, LC connector LX/LH transceiver
GLC-SX-MMD	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM

Get more information

Do you have any question about the Cisco Catalyst C2960+48TC-L switch?

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Specification

WS-C2960+48TC-L Specification

Configurations

10/100 Ethernet Interfaces	48
Uplink Interfaces	2 (SFP or 1000BASE-T)
Cisco IOS Software Feature Set	LAN Base
Available PoE Power	None

Hardware

Flash memory	64 MB
DRAM	128 MB

Performance and Scalability

Forwarding bandwidth	16 Gbps
Maximum active VLANs	255
VLAN IDs available	4K
Maximum transmission unit (MTU) - L3 packet	9000 bytes
Jumbo frame - Ethernet frame	9018 bytes
Forwarding Rate: 64-Byte L3 Packets, Millions of packets per second	10.1

Mechanical

Dimensions (H x W x D)	1.73 x 17.70 x 9.52 in (4.4 x 45.0 x 24.2 cm)
Weight	8 lb (3.6 Kg)
Package Weight	17.04 lb (7.73 Kg)

Environmental Ranges

Operating temperature up to 5000 ft (1500 m)	23° to 113°F (-5° to 45°C)
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Operating temperature up to 10,000 ft (3000 m)	23° to 104°F (-5° to 40°C)
Short-term exception at sea level*	23° to 131°F (-5° to 55°C)
Short-term exception up to 5000 feet (1500 m)*	23° to 122°F (-5° to 50°C)
Short-term exception up to 10,000 feet (3000 m)*	23° to 113°F (-5° to 45°C)
Short-term exception up to 13,000 feet (4000 m)*	23° to 104°F (-5° to 40°C)
Storage temperature up to 15,000 feet (4573 m)	23° to 158°F (-25° to 70°C)
Operating altitude	Up to 10,000 Feet (Up to 3,000 Meters)
Storage altitude	Up to 13,000 Feet (Up to 4,000 Meters)
Operating relative humidity	10% to 95% noncondensing
Storage relative humidity	10% to 95% noncondensing
Sound Pressure, dBA	Typical, LpAm: 33 Maximum, LpAD: 36
Sound Power, dbA	Typical, LwA: 43 Maximum, LwAD: 46
MTBF in thousands of hours	623
Connectors and Interfaces	
Ethernet Interfaces	10BASE-T ports: RJ-45 connectors, 2-pair Category 3, 4, or 5 unshielded twisted-pair (UTP) cabling 100BASE-TX ports: RJ-45 connectors, 2-pair Category 5 UTP cabling 1000BASE-T ports: RJ-45 connectors, 4-pair Category 5 UTP cabling 1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Category 5 UTP cabling
Indicator LEDs	Per-port status: Link integrity, disabled, activity, speed, and full duplex System status, Port Status, RPS, link duplex, and link speed
Console	Cisco Catalyst console cables: CAB-CONSOLE-RJ45 Console cable 6 ft. with RJ-45

Power	<p>The internal power supply is an auto-ranging unit and supports input voltages between 100 and 240V AC. Use the supplied AC power cord to connect the AC power connector to an AC power outlet. The Cisco RPS connector offers connection for an optional Cisco RPS 2300 that uses AC input and supplies DC output to the switch. Only the Cisco RPS 2300 (model PWR-RPS2300) should be attached to the redundant-power-system receptacle.</p>
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Management and Standards Support

Management	<p>BRIDGE-MIB CISCO-CABLE-DIAG-MIB CISCO-CDP-MIB CISCO-CLUSTER-MIB CISCO-CONFIG-COPY-MIB CISCO-CONFIG-MAN-MIB CISCO-DHCP-SNOOPING-MIB CISCO-ENTITY-VENDORTYPE-OID-MIB CISCO-ENVMON-MIB CISCO-ERR-DISABLE-MIB CISCO-FLASH-MIB CISCO-FTP-CLIENT-MIB CISCO-IGMP-FILTER-MIB CISCO-IMAGE-MIB CISCO-IP-STAT-MIB CISCO-LAG-MIB CISCO-MAC-NOTIFICATION-MIB CISCO-MEMORY-POOL-MIB CISCO-PAGP-MIB CISCO-PING-MIB CISCO-POE-EXTENSIONS-MIB CISCO-PORT-QOS-MIB CISCO-PORT-SECURITY-MIB CISCO-PORT-STORM-CONTROL-MIB CISCO-PRODUCTS-MIB CISCO-PROCESS-MIB CISCO-RTTMON-MIB CISCO-SMI-MIB CISCO-STP-EXTENSIONS-MIB CISCO-SYSLOG-MIB CISCO-TC-MIB CISCO-TCP-MIB CISCO-UDLD-MIB CISCO-VLAN-IFTABLE RELATIONSHIP-MIB CISCO-VLAN-MEMBERSHIP-MIB CISCO-VTP-MIB ENTITY-MIB ETHERLIKE-MIB IEEE8021-PAE-MIB IEEE8023-LAG-MIB IF-MIB INET-ADDRESS-MIB OLD-CISCO-CHASSIS-MIB OLD-CISCO-FLASH-MIB OLD-CISCO-INTERFACES-MIB OLD-CISCO-IP-MIB OLD-CISCO-SYS-MIB OLD-CISCO-TCP-MIB OLD-CISCO-TS-MIB RFC1213-MIB RMON-MIB RMON2-MIB SNMP-FRAMEWORK-MIB SNMP-MPD-MIB SNMP-NOTIFICATION-MIB SNMP-TARGET-MIB SNMPv2-MIB TCP-MIB UDP-MIB ePM MIB</p>
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Standards	<p>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 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</p>
RFC compliance	<p>RFC 768 - UDP RFC 783 - TFTP RFC 791 - IP RFC 792 - ICMP RFC 793 - TCP RFC 826 - ARP RFC 854 - Telnet RFC 951 - Bootstrap Protocol (BOOTP) RFC 959 - FTP RFC 1112 - IP Multicast and IGMP RFC 1157 - SNMP v1 RFC 1166 - IP Addresses RFC 1256 - Internet Control Message Protocol (ICMP) Router Discovery RFC 1305 - NTP RFC 1492 - TACACS+ RFC 1493 - Bridge MIB RFC 1542 - BOOTP extensions RFC 1643 - Ethernet Interface MIB RFC 1757 - RMON RFC 1901 - SNMP v2C RFC 1902-1907 - SNMP v2 RFC 1981 - Path MTU Discovery for IPv6 RFC 2068 - HTTP RFC 2131 - DHCP RFC 2138 - RADIUS RFC 2233 - IF MIB v3 RFC 2373 - IPv6 Aggregatable Addrs RFC 2460 - IPv6 RFC 2461 - IPv6 Neighbor Discovery RFC 2462 - IPv6 Autoconfiguration RFC 2463 - ICMP IPv6 RFC 2474 - Differentiated Services (DiffServ) Precedence RFC 2597 - Assured Forwarding RFC 2598 - Expedited Forwarding RFC 2571 - SNMP Management RFC 3046 - DHCP Relay Agent Information Option RFC 3376 - IGMP v3 RFC 3580 - 802.1X RADIUS</p>
Voltage and Power Ratings	
Voltage (Autoranging)	100 to 240 VAC
Current (Amperes)	0.6 - 0.3
Frequency	50 to 60Hz
Power Rating (kVA)	0.04
DC Input Voltages (RPS Input)	3A at 12V

Power Consumption	0% traffic: 30.4 10% traffic: 30.2 100% traffic: 30.6 ATIS weighted average: 30.2
Safety and Compliance	
Regulatory Compliance	Products should comply with CE Marking per directives 2004/108/EC and 2006/95/EC
Safety	UL 60950-1 Second Edition CAN/CSA-C22.2 No. 60950-1 Second Edition EN 60950-1 Second Edition IEC 60950-1 Second Edition AS/NZS 60950-1
EMC - Emissions	47CFR Part 15 (CFR 47) Class A AS/NZS CISPR22 Class A CISPR22 Class A EN55022 Class A ICES003 Class A VCCI Class A EN61000-3-2 EN61000-3-3 KN22 Class A CNS13438 Class A
EMC - Immunity	EN55024 CISPR24 EN300386 KN24
Environmental	Reduction of Hazardous Substances (RoHS) including Directive 2011/65/EU

Download Resource

Selection Decision

 [Cisco's New Switch Selection Decision 2018](#)

Support and Resources

 [Cisco Switch Catalyst 2960-Plus Series Datasheet](#)

Transition Guide

 [Cisco Catalyst 2960/2960-SF/2960-S Series Transition Guide](#)

 [Guide to Upgrade Cisco Access and Backbone Switch](#)

 [Selecting Cisco Switches-Campus, Branch, Digital Building](#)

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