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## Overview

Cisco Catalyst 2960-Plus Series 24 ports LAN Base switch supports 16 x 10/100 Ethernet ports, 8 x 10/100 PoE (IEEE 802.3af-compliant) ports and 2 x combo Gigabit SFP ports.

### Quick Specs

Figure 1 shows the appearance of WS-C2960+24LC-L.



Table 1 shows the Quick Specs.

<b>Product Code</b>	WS-C2960+24LC-L
<b>Enclosure Type</b>	Rack-mountable 1U
<b>Feature Set</b>	LAN Base
<b>Uplink Interfaces</b>	2 (SFP or 1000BASE-T)
<b>Available PoE Power</b>	123W
<b>Maximum Number of PoE (IEEE 802.3af) Ports</b>	8 ports up to 15.4W
<b>Ethernet Ports</b>	24 x 10/100 Ethernet ports
<b>Forwarding Bandwidth</b>	16 Gbps
<b>RAM</b>	128 MB
<b>Flash Memory</b>	64 MB
<b>Dimensions</b>	4.4cm x 45.0cm x 33.2cm
<b>Package Weight</b>	9.19 Kg

### Product Details

Figure 2 shows the front panel.



Note:

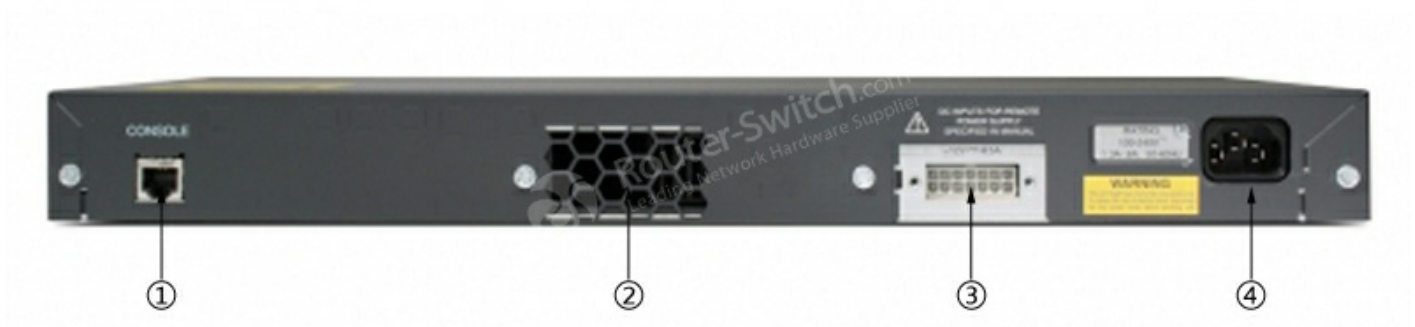
(1)	Switch LEDs	(3)	24 x 10/100 ports
(2)	Mode button	(4)	Dual-purpose ports

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

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

·Maximum Number of PoE (IEEE 802.3af) Ports is 8 ports up to 15.4W.

**Figure 3 shows the back panel.**



Note:

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

## The Accessories

Table 2 shows the accessories of WS-C2960+24LC-L.

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

## Compare to Similar Items

Table 3 shows the comparison of similar items.

<b>Models</b>	WS-C2960+24LC-L	<a href="#">WS-C2960+24PC-L</a>
<b>Ports</b>	16 x 10/100 Ethernet ports 8 x 10/100 PoE ports	24 x 10/100 Ethernet & PoE ports
<b>Uplinks</b>	2 (SFP or 1000BASE-T)	2 (SFP or 1000BASE-T)
<b>Feature Set</b>	LAN Base	LAN Base
<b>Available on PoE</b>	123W	370W

## Get more information

Do you have any question about the Cisco Catalyst 2960+24LC-L switch?

Contact us now via [Live Chat](#) or [cisco@router-switch.com](mailto:cisco@router-switch.com).

## Specification

WS-C2960+24LC-L Specification	
<b>Configurations</b>	
10/100 Ethernet Interfaces	24
Uplink Interfaces	2 (SFP or 1000BASE-T)
Cisco IOS Software Feature Set	LAN Base
Available PoE Power	123W (8 ports up to 15.4W)
<b>Hardware</b>	
Flash memory	64 MB
DRAM	128 MB
<b>Performance and Scalability</b>	
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	6.5
<b>Mechanical</b>	
Dimensions (H x W x D)	1.73 x 17.70 x 13.07 in (4.4 x 45.0 x 33.2 cm)
Weight	10 lb (4.5 Kg)
Package Weight	20.26 lb (9.19 Kg)
<b>Environmental Ranges</b>	
Operating temperature up to 5000 ft (1500 m)	23° to 113°F (-5° to 45°C)
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: 43 Maximum, LpAD: 46
Sound Power, dbA	Typical, LwA: 53 Maximum, LwAD: 56

MTBF in thousands of hours	498
<b>Connectors and Interfaces</b>	
Ethernet Interfaces	<p>10BASE-T ports: RJ-45 connectors, 2-pair Category 3, 4, or 5 unshielded twisted-pair (UTP) cabling</p> <p>100BASE-TX ports: RJ-45 connectors, 2-pair Category 5 UTP cabling</p> <p>1000BASE-T ports: RJ-45 connectors, 4-pair Category 5 UTP cabling</p> <p>1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Category 5 UTP cabling</p>
Indicator LEDs	<p>Per-port status: Link integrity, disabled, activity, speed, and full duplex</p> <p>System status, Port Status, PoE, RPS, link duplex, and link speed</p>
Console	<p>Cisco Catalyst console cables:</p> <p>CAB-CONSOLE-RJ45 Console cable 6 ft. with RJ-45</p>
Power	<p>The internal power supply is an auto-ranging unit and supports input voltages between 100 and 240V AC.</p> <p>Use the supplied AC power cord to connect the AC power connector to an AC power outlet.</p> <p>The Cisco RPS connector offers connection for an optional Cisco RPS 2300 that uses AC input and supplies DC output to the switch.</p> <p>Only the Cisco RPS 2300 (model PWR-RPS2300) should be attached to the redundant-power-system receptacle.</p>
<b>Management and Standards Support</b>	

Management	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-UDLDP-MIB CISCO-VLAN-IPTABLE 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
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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 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
RFC compliance	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
<b>Voltage and Power Ratings</b>	
Voltage (Autoranging)	100 to 240 VAC
Current (Amperes)	1.4 - 0.8
Frequency	50 to 60Hz
Power Rating (kVA)	0.16
DC Input Voltages (RPS Input)	2A at 12V (3A at -52V)

Power Consumption	0% traffic: 25.9 10% traffic: 25.7 100% traffic: 26.1 ATIS weighted average: 25.8
<b>Safety and Compliance</b>	
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

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### 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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