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## Overview

Cisco Catalyst 2960-Plus 24 Ports LAN Base Switches, supporting 24 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+24TC-L.



Table 1 shows the Quick Specs.

|                               |                            |
|-------------------------------|----------------------------|
| <b>Product Code</b>           | WS-C2960+24TC-L            |
| <b>Enclosure Type</b>         | Rack-mountable 1U          |
| <b>Feature Set</b>            | LAN Base                   |
| <b>Uplink Interfaces</b>      | 2 (SFP or 1000BASE-T)      |
| <b>Ports</b>                  | 24 x 10/100 Ethernet Ports |
| <b>Forwarding Bandwidth</b>   | 16 Gbps                    |
| <b>Forwarding Performance</b> | 6.5 Mpps                   |
| <b>RAM</b>                    | 128 MB                     |
| <b>Flash Memory</b>           | 64 MB                      |
| <b>Dimensions</b>             | 4.4cm x 45.0 cm x 24.2 cm  |
| <b>Package Weight</b>         | 7.73 Kg                    |

### Product Details

Figure 2 shows the front panel.



Note:

- (1) Switch LEDs
- (2) Mode button
- (3) 24\*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+24TC-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 |

## Get more information

Do you have any question about the Cisco Catalyst C2960+24TC-L switch?

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

## Specification

## WS-C2960+24TC-L Specification

### Configurations

|                                |                       |
|--------------------------------|-----------------------|
| 10/100 Ethernet Interfaces     | 24                    |
| 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 | 6.5        |

### 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) |
|--|----------------------------|

|  |   |
|--|---|
| Operating temperature up to 10,000 ft (3000 m)   | 23° to 104°F<br>(-5° to 40°C)   |
| Short-term exception at sea level*               | 23° to 131°F<br>(-5° to 55°C)   |
| Short-term exception up to 5000 feet (1500 m)*   | 23° to 122°F<br>(-5° to 50°C)   |
| Short-term exception up to 10,000 feet (3000 m)* | 23° to 113°F<br>(-5° to 45°C)   |
| Short-term exception up to 13,000 feet (4000 m)* | 23° to 104°F<br>(-5° to 40°C)   |
| Storage temperature up to 15,000 feet (4573 m)   | 23° to 158°F<br>(-25° to 70°C)  |
| Operating altitude                               | Up to 10,000 Feet<br>(Up to 3,000 Meters)   |
| Storage altitude                                 | Up to 13,000 Feet<br>(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<br>Maximum, LpAD: 36  |
| Sound Power, dbA                                 | Typical, LwA: 43<br>Maximum, LwAD: 46   |
| MTBF in thousands of hours                       | 667   |
| <b>Connectors and Interfaces</b>                 |   |
| Ethernet Interfaces                              | 10BASE-T ports: RJ-45 connectors, 2-pair Category 3, 4, or 5 unshielded twisted-pair (UTP) cabling<br>100BASE-TX ports: RJ-45 connectors, 2-pair Category 5 UTP cabling<br>1000BASE-T ports: RJ-45 connectors, 4-pair Category 5 UTP cabling<br>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<br>System status, Port Status, RPS, link duplex, and link speed   |
| Console  | Cisco Catalyst console cables:<br>CAB-CONSOLE-RJ45 Console cable 6 ft. with RJ-45   |
| Power  | 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. |

## Management and Standards Support

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-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

|                                  |   |
|----------------------------------|---|
| Standards                        | <p>IEEE 802.1D Spanning Tree Protocol<br/> IEEE 802.1p CoS Prioritization<br/> IEEE 802.1Q VLAN<br/> IEEE 802.1s<br/> IEEE 802.1w<br/> IEEE 802.1X<br/> IEEE 802.1ab (LLDP)<br/> IEEE 802.3ad<br/> IEEE 802.3af<br/> IEEE 802.3ah (100BASE-X single/multimode fiber only)<br/> IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports<br/> IEEE 802.3 10BASE-T<br/> IEEE 802.3u 100BASE-TX<br/> IEEE 802.3ab 1000BASE-T<br/> IEEE 802.3z 1000BASE-X<br/> RMON I and II standards<br/> SNMP v1, v2c, and v3</p>   |
| RFC compliance                   | <p>RFC 768 - UDP<br/> RFC 783 - TFTP<br/> RFC 791 - IP<br/> RFC 792 - ICMP<br/> RFC 793 - TCP<br/> RFC 826 - ARP<br/> RFC 854 - Telnet<br/> RFC 951 - Bootstrap Protocol (BOOTP)<br/> RFC 959 - FTP<br/> RFC 1112 - IP Multicast and IGMP<br/> RFC 1157 - SNMP v1<br/> RFC 1166 - IP Addresses<br/> RFC 1256 - Internet Control Message Protocol (ICMP) Router Discovery<br/> RFC 1305 - NTP<br/> RFC 1492 - TACACS+<br/> RFC 1493 - Bridge MIB<br/> RFC 1542 - BOOTP extensions<br/> RFC 1643 - Ethernet Interface MIB<br/> RFC 1757 - RMON<br/> RFC 1901 - SNMP v2C<br/> RFC 1902-1907 - SNMP v2<br/> RFC 1981 - Path MTU Discovery for IPv6<br/> RFC 2068 - HTTP<br/> RFC 2131 - DHCP<br/> RFC 2138 - RADIUS<br/> RFC 2233 - IF MIB v3<br/> RFC 2373 - IPv6 Aggregatable Addrs<br/> RFC 2460 - IPv6<br/> RFC 2461 - IPv6 Neighbor Discovery<br/> RFC 2462 - IPv6 Autoconfiguration<br/> RFC 2463 - ICMP IPv6<br/> RFC 2474 - Differentiated Services (DiffServ) Precedence<br/> RFC 2597 - Assured Forwarding<br/> RFC 2598 - Expedited Forwarding<br/> RFC 2571 - SNMP Management<br/> RFC 3046 - DHCP Relay Agent Information Option<br/> RFC 3376 - IGMP v3<br/> RFC 3580 - 802.1X RADIUS</p> |
| <b>Voltage and Power Ratings</b> |   |
| Voltage (Autoranging)            | 100 to 240 VAC  |
| Current (Amperes)                | 0.4 - 0.2   |
| Frequency                        | 50 to 60Hz  |
| Power Rating (kVA)               | 0.03  |
| DC Input Voltages (RPS Input)    | 2A at 12V   |

|                              |   |
|------------------------------|---|
| Power Consumption            | 0% traffic: 18.4<br>10% traffic: 18.3<br>100% traffic: 18.6<br>ATIS weighted average: 18.3  |
| <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<br>CAN/CSA-C22.2 No. 60950-1 Second Edition<br>EN 60950-1 Second Edition<br>IEC 60950-1 Second Edition<br>AS/NZS 60950-1  |
| EMC - Emissions              | 47CFR Part 15 (CFR 47) Class A<br>AS/NZS CISPR22 Class A<br>CISPR22 Class A<br>EN55022 Class A<br>ICES003 Class A<br>VCCI Class A<br>EN61000-3-2<br>EN61000-3-3<br>KN22 Class A<br>CNS13438 Class A |
| EMC - Immunity               | EN55024<br>CISPR24<br>EN300386<br>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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