

	8 port	16 port	24 port (1/10G uplinks)	48 port (1/10G uplinks)
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: system, PoE, and link speed			
Console cables	CAB-CONSOLE-RJ45 Console cable 6 ft. with RJ-45 CAB-CONSOLE-USB Console cable 6 ft. with USB Type A and mini-B connectors			
Power	Use the supplied AC power cord to connect the AC power connector to an AC power outlet			
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-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 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	
	For an updated list of supported MIBs, refer to the MIB Locator at cisco.com/go/mibs .			
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) Bluetooth Ver 4.0	IEEE 802.3ad IEEE 802.3af and IEEE 802.3at 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 IEEE 802.3az IEEE 802.3ae 10 Gigabit Ethernet IEEE 802.1ax	
RFC compliance				
	RFC 768 - UDP RFC 783 - TFTP RFC 791 - IP RFC 792 - ICMP RFC 793 - TCP	RFC 1256 - Internet Control Message Protocol (ICMP) Router Discovery RFC 1305 - NTP RFC 1492 - TACACS+		

	8 port	16 port	24 port (1/10G uplinks)	48 port (1/10G uplinks)
	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 1493 - Bridge MIB RFC 1542 - BOOTP extensions RFC 1901 - SNMP v2C RFC 1902-1907 - SNMP v2 RFC 1981 - Maximum Transmission Unit (MTU) Path Discovery IPv6 RFC 2068 - HTTP RFC 2131 - DHCP RFC 2138 - RADIUS RFC 2233 - IF MIB v3		

Cisco Enhanced Limited Lifetime Hardware Warranty

Cisco Catalyst 2960-L Series Switches come with an Enhanced Limited Lifetime Warranty (E-LLW). The E-LLW provides the same terms as the Cisco standard limited lifetime warranty but adds next-business-day delivery of replacement hardware, where available, and 90 days of 8x5 Cisco Technical Assistance Center (TAC) support. Your formal warranty statement, including the warranty applicable to Cisco software, appears in the Cisco information packet that accompanies your Cisco product. We encourage you to review carefully the warranty statement shipped with your specific product before use.

Cisco reserves the right to refund the purchase price as its exclusive warranty remedy. For more information about warranty terms, visit <https://www.cisco.com/go/warranty> and see Table 3. Warranty terms.

Cisco enhanced limited lifetime hardware warranty	
Device covered	Applies to all Cisco Catalyst 2960-L Series Switches.
Warranty duration	As long as the original end user continues to own or use the product.
End-of-life policy	In the event of discontinuance of product manufacture, Cisco warranty support is limited to 5 years from the announcement of discontinuance.
Hardware replacement	Cisco or its service center will use commercially reasonable efforts to ship a Cisco Catalyst 2960-L replacement part for next-business-day delivery, where available. Otherwise, a replacement will be shipped within 10 working days after the receipt of the RMA request. Actual delivery times might vary depending on customer location.
Effective date	Hardware warranty commences from the date of shipment to customer (and in case of resale by a Cisco reseller, not more than 90 days after original shipment by Cisco).
TAC support	Cisco will provide during customer's local business hours, 8 hours per day, 5 days per week basic configuration, diagnosis, and troubleshooting of device-level problems for up to 90 days from the date of shipment of the originally purchased Cisco Catalyst 2960-L product. This support does not include solution or network-level support beyond the specific device under consideration.
Cisco.com access	Warranty allows guest access only to Cisco.com.

Cisco DNA Subscription Licensing

Cisco Catalyst 2960-L Series Switches support term-based Cisco DNA Essentials licenses (DNA-E). Table 4 lists the features supported in Cisco DNA Essentials. Table 5 gives ordering information for Cisco DNA Essentials with the 2960-L Series.

Ordering and managing licenses with smart accounts: Creating smart accounts by using the Cisco Smart Software Manager (SSM) enables you to order devices and licensing packages and also to manage your software licenses from a centralized website. You can set up Cisco SSM to receive daily email alerts and to be notified of expiring add-on licenses that you want to renew. When the license term expires, you can either renew the add-on license to continue using it or deactivate the add-on license and then reload the switch to continue operating with the base license capabilities.

Table 3. Features supported in Cisco DNA Essentials for Cisco Catalyst 2960-L Series Switches

Category	Features
Day-zero network bring-up automation	Cisco Network Plug-and-Play application
Cisco DNA Center	Discovery, inventory, topology, software image management
Network monitoring	Device 360

Software Policy

Customers with enhanced Cisco IOS LAN Lite software feature sets are provided with maintenance updates and bug fixes designed to maintain the compliance of the software with published specifications, release notes, and industry standards as long as the original end user continues to own or use the product or up to 1 year from the end-of-sale date for this product, whichever occurs earlier.

This policy supersedes any previous warranty or software statement and is subject to change without notice.

Technical Support and Services

Table 4 describes available technical services.

Table 4. Technical services available for Cisco Catalyst 2960-L Series Switches

Technical services
<p>Cisco Smart Net Total Care™ Service</p> <ul style="list-style-type: none"> • Around-the-clock, global access to the Cisco TAC • Unrestricted access to the extensive Cisco.com knowledge base and tools • Next-business-day, 8x5x4, 24x7x4, or 24x7x2 advance hardware replacement and onsite parts replacement and installation available¹ • Ongoing operating system software updates within the licensed feature set² • Proactive diagnostics and real-time alerts on Smart Call Home–enabled devices
<p>Cisco Smart Foundation Service</p> <ul style="list-style-type: none"> • Next-business-day advance hardware replacement as available • Access to SMB TAC during business hours (access levels vary by region) • Access to Cisco.com SMB knowledge base • Online technical resources through Smart Foundation Portal • Operating system software bug fixes and patches
<p>Cisco Smart Care Service</p> <ul style="list-style-type: none"> • Network-level coverage for the needs of small and medium-sized businesses • Proactive health checks and periodic assessments of Cisco network foundation, voice, and security technologies • Technical support for eligible Cisco hardware and software through Smart Net Total Care portal • Cisco operating system and application software updates and upgrades² • Next-business-day advance hardware replacement as available, 24x7x4 option available¹
<p>Cisco SP Base Service</p> <ul style="list-style-type: none"> • Around-the-clock, global access to the Cisco TAC • Registered access to Cisco.com • Next-business-day, 8x5x4, 24x7x4, and 24x7x2 advance hardware replacement; return to factory option available¹ • Ongoing operating system software updates²
<p>Cisco Focused Technical Support Services</p> <p>Three levels of premium, high-touch services are available:</p> <ul style="list-style-type: none"> • Cisco High-Touch Operations Management Service • Cisco High-Touch Technical Support Service • Cisco High-Touch Engineering Service <p>Valid Cisco Smart Net Total Care or SP Base contracts are required on all network equipment.</p>

¹ Advance hardware replacement is available in various service-level combinations. For example, 8x5xNBD indicates that shipment is initiated during the standard 8-hour business day, 5 days a week (the generally accepted business days within the relevant region), with Next-Business-Day (NBD) delivery. Where NBD is not available, same-day shipping is provided. Restrictions apply; for details, review the appropriate service descriptions.

² Cisco operating system updates include the following: maintenance releases, minor updates, and major updates within the licensed feature set.

Accessories

Table 5 describes the available accessories.

Table 5. Cisco Catalyst 2960-L Series accessories

Part numbers	Description	Compatibility
CAB-CONSOLE-RJ45	Console Cable 6 Feet with RJ-45	All models
CAB-CONSOLE-USB	Console Cable 6 Feet with USB Type A and mini-B Connectors	All models
PWR-CLP	Power Cable Restraining Clip	All models
RCKMNT-1RU-2KX	1RU Rack Mount Kit for 2960-X, 2960-XR, and 2960-L	24-port and 48-port models only
RCKMNT-REC-2KX	Recessed 1RU rack mount for 2960X, 2960-XR, and 2960-L	24-port and 48-port models only
CMPCT-MGNT-TRAY	Magnetic Mounting Tray for 3560-CX, 2960-CX, and 2960-L Compact Switches	8-port and 16-port models only
CMPCT-CBLE-GRD	Cable Guard for 3560-CX, 2960-CX, and 2960-L Compact Switches	8-port and 16-port models only
CMPCT-DIN-MNT	DIN Rail Mount for 3560-CX, 2960-CX, and 2960-L Compact Switches	8-port and 16-port models only

Ordering Information

Table 6 lists ordering information for the Cisco Catalyst 2960-L Series. To place an order, visit the Cisco Ordering homepage at https://www.cisco.com/en/US/ordering/or13/or8/order_customer_help_how_to_order_listing.html.

Table 6. Cisco Catalyst 2960-L ordering information

Product number	Description
Cisco Catalyst 2960-L Switches with 2x 1G SFP uplinks	
WS-C2960L-8TS-LL	8 port 10/100/1000 Ethernet ports, 2 x 1G SFP
WS-C2960L-8PS-LL	8 port 10/100/1000 Ethernet PoE+ ports, 2 x 1G SFP
WS-C2960L-16TS-LL	16 port 10/100/1000 Ethernet ports, 2 x 1G SFP
WS-C2960L-16PS-LL	16 port 10/100/1000 Ethernet PoE+ ports, 2 x 1G SFP
Cisco Catalyst 2960-L Switches with 4x 1G SFP Uplinks	
WS-C2960L-24TS-LL	24 port 10/100/1000 Ethernet ports, 4 x 1G SFP
WS-C2960L-24PS-LL	24 port 10/100/1000 Ethernet PoE+ ports, 4 x 1G SFP
WS-C2960L-48TS-LL	48 port 10/100/1000 Ethernet ports, 4 x 1G SFP
WS-C2960L-48PS-LL	48 port 10/100/1000 Ethernet PoE+ ports, 4 x 1G SFP
Cisco Catalyst 2960-L Switches with 4x 10G SFP+ Uplinks	
WS-C2960L-24TQ-LL	24 port 10/100/1000 Ethernet ports, 4 x 10G SFP+
WS-C2960L-24PQ-LL	24 port 10/100/1000 Ethernet PoE+ ports, 4 x 10G SFP+
WS-C2960L-48TQ-LL	48 port 10/100/1000 Ethernet ports, 4 x 10G SFP+
WS-C2960L-48PQ-LL	48 port 10/100/1000 Ethernet PoE+ ports, 4 x 10G SFP+

Table 7. Product IDs for Cisco DNA Essentials licenses on the Cisco Catalyst 2960-L Series

Ports	Product ID	Description
8	C2960L-DNA-E-8=	C2960L DNA Essentials, 8-port term licenses
	C2960L-DNA-E-8-3Y	C2960L DNA Essentials, 8-port, 3-year term licenses
	C2960L-DNA-E-8-5Y	C2960L DNA Essentials, 8-port, 5-year term licenses
16	C2960L-DNA-E-16=	C2960L DNA Essentials, 16-port term licenses
	C2960L-DNA-E-16-3Y	C2960L DNA Essentials, 16-port, 3-year term licenses
	C2960L-DNA-E-16-5Y	C2960L DNA Essentials, 16-port, 5-year term licenses
	C2960L-DNA-E-16-7Y	C2960L DNA Essentials, 16-port, 7-year term licenses
24	C2960L-DNA-E-24=	C2960L DNA Essentials, 24-port term licenses
	C2960L-DNA-E-24-3Y	C2960L DNA Essentials, 24-port, 3-year term licenses
	C2960L-DNA-E-24-5Y	C2960L DNA Essentials, 24-port, 5-year term licenses
	C2960L-DNA-E-24-7Y	C2960L DNA Essentials, 24-port, 7-year term licenses
48	C2960L-DNA-E-48=	C2960L DNA Essentials, 48-port term licenses
	C2960L-DNA-E-48-3Y	C2960L DNA Essentials, 48-port, 3-year term licenses
	C2960L-DNA-E-48-5Y	C2960L DNA Essentials, 48-port, 5-year term licenses
	C2960L-DNA-E-48-7Y	C2960X DNA Essentials, 48-port, 7-year term licenses

Optics Compatibility Information

The Cisco Catalyst 2960-L Series supports a wide range of optics. Because the list of supported optics is updated on a regular basis, consult the tables available here for compatibility information: [Optics Compatibility](#).

Contact Cisco

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[Worldwide Product Support](#).

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