

Description	Specification				
Environmental ranges		Cisco Catalyst 3560-C		Cisco Catalyst 2960-C	
	Operating temperature up to 5000 ft (1524 m)	-5°C to +45°C**	+23°F to +113°F	-5°C to +45°C**	+23°F to +113°F
	Operating temperature up to 10,000 ft (3048 m)	-5°C to +45°C	+23°F to +113°F	-5°C to +45°C	+23°F to +113°F
	Storage temperature up to 15,000 ft (4572 m)	-25°C to +70°C	-13°F to +158°F	-25°C to +70°C	-13°F to +158°F
	Operating altitude	Up to 3048 m	Up to 10,000 ft	Up to 3048 m	Up to 10,000 ft
	Storage altitude	Up to 4000 m	Up to 15,000 ft	Up to 4000 m	Up to 15,000 ft
	Operating relative humidity	5% to 95% noncondensing		5% to 95% noncondensing	
	Storage relative humidity	5% to 95% noncondensing		5% to 95% noncondensing	
* Minimum ambient temperature for cold start is 0°C (+32°F). ** FE SKUs only GE SKU have a max operation temp of 40C.					
Acoustic noise	ISO 7779 and ISO 9296: Bystander positions operating to an ambient temperature of 25°C.				
	Model	Sound pressure LpA (Typical)	Model	Sound pressure LpA (Typical)	
	Cisco Catalyst 3560-C	0dB (fanless)	Cisco Catalyst 2960-C	0dB (fanless)	
Mean time between failure (MTBF)	Cisco Catalyst 3560-C	MTBF	Cisco Catalyst 2960-C	MTBF	
	3560CG-8PC-S	355,830	2960CPD-8PT-L	346,590	
	3560CG-8TC-S	488,549	2960CPD-8TT-L	471,888	
	3560CPD-8PT-S	333,354	2960CG-8TC-L	542,482	
	3560C-8PC-S	373,635	2960C-8TC-L	516,980	
	3560C-12PC-S	357,027	2960C-8TC-S	516,980	
				2960C-8PC-L	373,635
			2960C-12PC-L	357,027	

* The 2960-C LAN Lite only supports 64 VLANs.

Table 4 shows switch power specifications.

Table 4. Power Specifications for Cisco Catalyst 3560-C and 2960-C Series Compact Switch

Description	Specification			
Measured 100% throughput power consumption	Cisco Catalyst 3560-C	Switch Power Consumption Watts	Cisco Catalyst 2960-C	Switch Power Consumption Watts
	3560CPD-8PT-S	Single Uplink = 21W ¹ Dual Uplink = 22W ¹	2960CPD-8PT-L	Single Uplink = 12W ¹ Dual Uplink = 15W ¹
	3560CG-8PC-S	24W	2960CPD-8TT-L	Single Uplink = 12W ¹ Dual Uplink = 15W ¹
	3560CG-8TC-S	20W	2960CG-8TC-L	18W
	3560C-8PC-S	17W	2960C-8TC-L	11W
	3560C-12PC-S	19W	2960C-8TC-S	11W
			2960C-8PC-L	17W
		2960C-12PC-L	19W	

Description	Specification								
Measured 5% throughput power consumption	Cisco Catalyst 3560-C		Switch Power Consumption Watts		Cisco Catalyst 2960-C		Switch Power Consumption Watts		
	3560CPD-8PT-S		Single Uplink = 20W ¹ Dual Uplink = 21W ¹		2960CPD-8PT-L		Single Uplink = 12W ¹ Dual Uplink = 15W ¹		
	3560CG-8PC-S		24W		2960CPD-8TT-L		Single Uplink = 12W ¹ Dual Uplink = 15W ¹		
	3560CG-8TC-S		18W		2960CG-8TC-L		18W		
	3560C-8PC-S		17W		2960C-8TC-L		11W		
	3560C-12PC-S		19W		2960C-8TC-S		11W		
					2960C-8PC-L		17W		
					2960C-12PC-L		18W		
Measured 100% throughput power consumption (with maximum possible PoE loads)	Cisco Catalyst 3560-C		Switch Power Consumption Watts		Cisco Catalyst 2960-C		Switch Power Consumption Watts		
	3560CPD-8PC-S		40W		2960CPD-8PT-L		43W		
	3560CG-8PC-S		165W		2960C-8PC-L		157W		
	3560C-8PC-S		158W		2960C-12PC-L		158W		
	3560C-12PC-S		159W						
AC/DC input voltage and current	Cisco Catalyst 3560-C			Cisco Catalyst 2960-C					
		I/P Voltage	I/P Current		I/P voltage	I/P Current			
	3560CPD-8PT-S	37-57VDC	.01-.6A	2960CPD-8PT-L	37-57VDC	.01-.6A			
	3560CG-8PC-S	100-240 VAC	1.7-.8A	2960CPD-8TT-L	37-57VDC	.01-.3A			
	3560CG-8TC-S	100-240 VAC	.37-.2A	2960CG-8TC-L	100-240 VAC	.34-.2A			
	3560C-8PC-S	100-240 VAC	1.6-.8A	2960C-8TC-L	100-240 VAC	.21-.1A			
	3560C-12PC-S	100-240 VAC	1.6-.8A	2960C-8TC-S	100-240 VAC	.21-.1A			
				2960C-8PC-L	100-240 VAC	1.6-.8A			
				2960C-12PC-L	100-240 VAC	1.6-.8A			
	Note: For the AC values of the 3560CPD and 2960CPD SKUs see Hardware Installation Guide.								
Power rating	Cisco Catalyst 3560-C				Cisco Catalyst 2960-C				
		Watts	KVA	BTU		Watts	KVA	BTU	
	3560CPD-8PT-S	51	.05	170.6	2960CPD-8PT-L	15	0.04	136	
	3560CG-8PC-S	165	.17	580 ¹	2960CPD-8TT-L	15	0.04	136	
	3560CG-8TC-S	20	.05	170.6	2960CG-8TC-L	18	0.04	136	
	3560C-8PC-S	158	.16	546 ¹	2960C-8TC-L	11	.03	102	
	3560C-12PC-S	159	.16	546 ¹	2960C-8TC-S	11	.03	102	
					2960C-8PC-L	157	.16	546 ¹	
					2960C-12PC-L	158	.16	546 ¹	
¹ Switch dissipation only (excludes PoE which is dissipated at the end device). Power measurement are best and worst case. Best Case is 1 PoE Connection. Worst case is 2 PoE+ connections.									
PoE and PoE+	<ul style="list-style-type: none"> Maximum power supplied per Port for PoE+ is 30W Maximum power supplied per port for PoE: 15.4W 								

Table 5 shows switch management and standards support.

Table 5. Management and Standards Support for Cisco Catalyst 3560-C and 2960-C Series Compact Switch

Description	Specification	
Management	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 specification • IEEE 802.3u 100BASE-TX specification • IEEE 802.3ab 1000BASE-T specification • IEEE 802.3z 1000BASE-X specification 	<ul style="list-style-type: none"> • 100BASE-BX (SFP) • 100BASE-FX (SFP) • 100BASE-LX (SFP) • 1000BASE-BX (SFP) • 1000BASE-SX (SFP) • 1000BASE-LX/LH (SFP) • 1000BASE-ZX (SFP) • 1000BASE-CWDM SFP 1470 nm • 1000BASE-CWDM SFP 1490 nm • 1000BASE-CWDM SFP 1510 nm • 1000BASE-CWDM SFP 1530 nm • 1000BASE-CWDM SFP 1550 nm • 1000BASE-CWDM SFP 1570 nm • 1000BASE-CWDM SFP 1590 nm • 1000BASE-CWDM SFP 1610 nm • RMON I and II standards • SNMPv1, SNMPv2c, and SNMPv3

Description	Specification
RFC compliance	<ul style="list-style-type: none"> • 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 • RFC 1542: BOOTP Extensions • RFC 959: FTP • RFC 1058: RIP Routing • RFC 1112: IP Multicast and IGMP • RFC 1157: SNMPv1 • RFC 1166: IP Addresses • RFC 1253: OSPF Routing • RFC 1256: ICMP Router Discovery • RFC 1305: NTP • RFC 1492: TACACS+ • RFC 1493: Bridge MIB • RFC 1542: Bootstrap Protocol • RFC 1583: OSPFv2 • RFC 1643: Ethernet Interface MIB • RFC 1723: RIPv2 Routing • RFC 1757: RMON • RFC 1812: IP Routing • RFC 1901: SNMPv2C • RFC 1902-1907: SNMPv2 • RFC 1981: MTU Path Discovery IPv6 • RFC 2068: HTTP • RFC 2080: RIP for IPv6 • RFC 2131: DHCP • RFC 2138: RADIUS • RFC 2233: IF MIB • RFC 2236: IP Multicast • RFC 2328: OSPFv2 • RFC 2273-2275: SNMPv3 • RFC 2373: IPv6 Aggregatable Addrs • RFC 2453: RIPv2 Routing • RFC 2460: IPv6 protocol • RFC 2461: IPv6 Neighbor Discovery • RFC 2462: IPv6 Autoconfiguration • RFC 2463: ICMP IPv6 • RFC 2474: DiffServ Precedence • RFC 2597: Assured Forwarding • RFC 2598: Expedited Forwarding • RFC 2571: SNMP Management • RFC 2740: OSPF for IPv6 • RFC 3046: DHCP Relay Agent Information Option • RFC 3101, 1587: NSSAs • RFC 3376: IGMPv3 • RFC 3580: 802.1x RADIUS
Note: RFC, MIB and Standards compliance is dependant on IOS Level	

Table 6 shows switch safety and compliance information.

Table 6. Safety and Compliance

Description	Specification
Safety standards	<ul style="list-style-type: none"> • UL 60950-1 • CAN/CSA 22.2 No. 60950-1 • EN 60950-1 • IEC 60950-1 • CE Marking • GB 4943 • IEC 60825
Electromagnetic emissions certifications	<ul style="list-style-type: none"> • FCC Part 15, CFR 47, Class A, North America • EN 55022 (CISPR22) and EN 55024 (CISPR24), CE marking, European Union • AS/NZS, Class A, CISPR22:2004 or EN55022, Australia and New Zealand • VCCI Class A, V-3/2007.04, Japan • KCC (Formerly MIC, GB17625.1-1998) Class A, KN24/KN22, Korea • ANATEL, Brazil • CCC, China • GOST, Russia
Environmental	Reduction of Hazardous Substances (ROHS) 6
Telco	Common Language Equipment Identifier (CLEI) code

Safety Compliance and Product Approval Status

For further information on safety and compliance documentation, visit the Product Approval Status tool at http://tools.cisco.com/cse/prdapp/jsp/externalsearch.do?action=externalsearch&page=EXTERNAL_SEARCH.

Cisco Enhanced Limited Lifetime Hardware Warranty

Cisco Catalyst 2960-C and 3560-C Series Switches come with an enhanced limited lifetime hardware warranty (E-LLW) that includes 90 days of Cisco Technical Assistance Center (TAC) support and next-business-day hardware replacement free of charge. (See Table 7.)

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 additional information on warranty terms, visit <http://www.cisco.com/go/warranty>.

Adding a Cisco technical services contract to your device coverage provides access to the Cisco TAC beyond the 90-day period allowed by the E-LLW. It also can provide a variety of hardware replacement options to meet critical business needs, as well as updates for licensed premium Cisco IOS Software, and registered access to the extensive Cisco.com knowledge base and support tools.

Footnotes

- ¹. Cisco operating system updates include the following: maintenance releases, minor updates, and major updates within the licensed feature set.
- ². Advance hardware replacement is available in various service-level combinations. For example, 8x5xNBD indicates that shipment will be 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 ship is provided. Restrictions apply; review the appropriate service descriptions for details.

Table 7. Enhanced Limited Lifetime Hardware Warranty

	Cisco Enhanced Limited Lifetime Hardware Warranty
Device covered	Applies to Cisco Catalyst 2960-C and 3560-C Series compact switches.
Warranty duration	As long as the original customer owns the product.
EoL 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 replacement for next business day delivery, where available. Otherwise, a replacement will be shipped within 10 working days after 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 business hours, 8 hours per day, 5 days per week basic configuration, diagnosis, and troubleshooting of device-level problems for up to a 90-day period from the date of shipment of the originally purchased Cisco Catalyst 2960 and 3560 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.

Software Policy for Cisco Catalyst 3560-C and 2960-C Series Compact Switches

Customers with Cisco Catalyst LAN Base and IP Base software feature sets will be provided with updates and bug fixes designed to maintain the compliance of the software with published specifications, release notes, and industry standards compliance as long as the original end user continues to own or use the product or up to one 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.

Cisco and Partner Services for Next-Generation Cisco Catalyst Compact Switches

Enable the innovative, secure, intelligent edge in the Borderless Network Architecture using personalized services from Cisco and our partners. Through a discovery process that begins with understanding your business objectives, we help you integrate the next-generation Cisco Catalyst fixed switches into your architecture and incorporate network services onto that platform. Sharing knowledge and leading practices, we support your success every step of the way as you deploy, absorb, manage, and scale new technology. Choose from a flexible suite of support services designed to meet your business needs and help you maintain high-quality network performance while controlling operational costs. (See Table 8.)

Table 8. Technical Services Available for Cisco Catalyst 3560-C and 2960-C Series Compact Switches

Technical Services
<p>Cisco SMARTnet[®] Service</p> <ul style="list-style-type: none">• Around-the-clock, global access to the Cisco Technical Assistance Center (TAC)• Unrestricted access to the extensive Cisco.com knowledge base and tools• Next-business-day, 8x5x4, 24x7x4, and 24x7x2 advance hardware replacement and onsite parts replacement and installation available• Ongoing operating system software updates within the licensed feature set• 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• Business hours access to SMB TAC (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 Focused Technical Support Services</p> <ul style="list-style-type: none">• 3 levels of premium, high-touch services are available:• Cisco High-Touch Operations Management Service• Cisco High-Touch Technical Support Service• Cisco High-Touch Engineering Service• Valid Cisco SMARTnet or SP Base contracts on all network equipment are required

Ordering Information

Tables 9 and 10 give ordering information for the Cisco Catalyst 3560-C and 2960-C Series compact switches and accessories.

To place an order, visit the Cisco Ordering homepage at

http://www.cisco.com/en/US/ordering/or13/or8/order_customer_help_how_to_order_listing.html.

Table 9. Ordering Information for Cisco Catalyst 3560-C and 2960-C Series Compact Switches

Cisco Catalyst 3560-C Compact Switches	
WS-C3560CG-8TC-S	3560C Switch 8 GE, 2 x Dual Purpose Uplink, IP Base
WS-C3560CG-8PC-S	3560C Switch 8 GE PoE+, 2 x Dual Purpose, IP Base
WS-C3560CPD-8PT-S	3560C PD PSE Switch 8 GE PoE, 2 x 1G Copper Uplink, IP Base
WS-C3560C-8PC-S	3560C Switch 8 FE PoE+, 2 x Dual Purpose Uplink, IP Base
WS-C3560C-12PC-S	3560C Switch 12 FE PoE+, 2 x Dual Purpose Uplink, IP Base
Cisco Catalyst 2960-C Compact Switches	
WS-C2960CPD-8TT-L	2960C PD Switch 8 FE, 2 x 1G, PoE+ LAN Base
WS-C2960CPD-8PT-L	2960C PD PSE Switch 8 FE PoE, 2 x 1G, PoE+ LAN Base
WS-C2960CG-8TC-L	2960C Switch 8 GE, 2 x Dual Purpose Uplink, LAN Base
WS-C2960C-8TC-L	2960C Switch 8 FE, 2 x Dual Purpose Uplink, LAN Base
WS-C2960C-8TC-S	2960C Switch 8 FE, 2 x Dual Purpose Uplink, LAN Lite
WS-C2960C-8PC-L	2960C PoE Switch 8 FE PoE, 2 x Dual Purpose Uplink, LAN Base
WS-C2960C-12PC-L	2960C PoE Switch 12 FE PoE, 2 x Dual Purpose Uplink, LAN Base

Table 10. Ordering Information for Cisco Catalyst 3560-C and 2960-C Series Compact Switch Accessories

Part Number	Description
CMP-CBLE-GRD=	Cable guard for the 3560-C and 2960-C compact switches
CMP-MGNT-TRAY =	Magnet and Mounting Tray for 3560-C and 2960-C compact switches
PWR-ADPT=	Power Adapter for the 3560-C and 2960-C compact switches
PWR-CLP	Power Clip for the 3560-C and 2960-C compact switches
CMP-DIN-MNT=	DIN Rail Mount for 3560-C and 2960-C compact switches
RCKMNT-19-CMPCT=	19-Inch Rack Mounting Brackets
RCKMNT-23-CMPCT=	23- and 24-Inch Rack Mounting Brackets

