

Cisco Catalyst 2960-X Series Switches

PB728262

Cisco® Catalyst® 2960-X Series Switches are the next generation of the world's most widely deployed access switches. They enable intelligent services such as application visibility, Smart Operations, Layer 3 routing and deliver best-in-class energy efficiency with up to 80 percent energy savings. Designed for operational simplicity to lower TCO, this platform also offers investment protection with mixed stacking with existing Cisco Catalyst 2960-S and 2960-SF switches.

Cisco is introducing the Cisco Catalyst 2960-X series of stackable Gigabit Ethernet access switches, the game changing product to promote IT transformation:

- The **Cisco Catalyst 2960-X** models provide Layer 2 switching and have one fixed power-supply with an optional external redundant power supply. They provide 24 and 48 Gigabit Ethernet ports, with Power over Ethernet/Power over Ethernet Plus (PoE/PoE+) support and four Gigabit Ethernet SFP or two 10 Gigabit Ethernet Small Form-Factor Pluggable Plus (SFP+) uplinks.
- The **Cisco Catalyst 2960-XR** models offer all the features of the Cisco Catalyst 2960-X. In addition, they introduce Layer 3 routing functionality for the first time in the Cisco Catalyst 2960 Series. They also have two field-replaceable redundant power supply modules for power redundancy.



Primary Features and Benefits

- FlexStack-Plus with up to 80 GB of stack bandwidth and up to 8 members in a stack.
- Innovative energy saving hibernation modes that reduce energy consumption by up to 90% when the switch is not in use (nights, weekends).
- IEEE 802.3az EEE (Energy-Efficient Ethernet) enables dynamic power savings on all switch ports.
- Cisco EnergyWise services empowers IT teams to measure and manage the power consumed by devices connected to the network, providing measurable energy savings and reduced greenhouse gas emissions.
- Smart Install automatically downloads Cisco IOS® Software and configures the switches for zero-touch deployment.
- Auto Smart Ports automatically configures port settings (VLAN, security, QoS) based on device type (for example, IP phones, access points) for simplified configuration and rapid deployment.

- NetFlow Lite detects IP packet types and provides enhanced visibility into the network.
- Standards-based 802.1x enables port-based network access control. 802.1x monitor mode simplifies first-time 802.1x deployments by allowing user traffic pass-through while monitoring the access. IT can then implement 802.1x in phases.
- IPv6 First Hop Security protects against IPv6 address theft and malicious attacks.
- One policy through integration with Cisco Identity Services Engine (ISE) simplifies policy management in our 2960-XR switches.
- One management through integration with Cisco Prime™ provides ease of use.

Ordering Information

Tables 1 and 2 provide ordering information for the new Cisco Catalyst 2960-X switches. Table 3 provides information about accessories for Cisco Catalyst 2960-X switches. Tables 4 and 5 provide information about redundant power supplies for the 2960-X switches. Table 6 provides information about power cords for Cisco Catalyst 2960-X switches.

Table 1. Cisco Catalyst 2960-X Switches Ordering Information

Part Number	10/100/1000 Ethernet Interfaces	Uplink Interfaces	Cisco IOS Software Feature Set	Available PoE Power	FlexStack-Plus Stacking
WS-C2960X-48FPD-L	48	2 SFP+	LAN Base	740W	Optional
WS-C2960X-48LPD-L	48	2 SFP+	LAN Base	370W	Optional
WS-C2960X-24PD-L	24	2 SFP+	LAN Base	370W	Optional
WS-C2960X-48TD-L	48	2 SFP+	LAN Base	-	Optional
WS-C2960X-24TD-L	24	2 SFP+	LAN Base	-	Optional
WS-C2960X-48FPS-L	48	4 SFP	LAN Base	740W	Optional
WS-C2960X-48LPS-L	48	4 SFP	LAN Base	370W	Optional
WS-C2960X-24PS-L	24	4 SFP	LAN Base	370W	Optional
WS-C2960X-24PSQ-L	24	2 SFP & 2 1000BASE-T	LAN Base	92W	No
WS-C2960X-48TS-L	48	4 SFP	LAN Base	-	Optional
WS-C2960X-24TS-L	24	4 SFP	LAN Base	-	Optional
WS-C2960X-48TS-LL	48	2 SFP	LAN Lite	-	No
WS-C2960X-24TS-LL	24	2 SFP	LAN Lite	-	No

Table 2. Cisco Catalyst 2960-XR Switches Ordering Information

Part Number	10/100/1000 Ethernet Interfaces	Uplink Interfaces	Cisco IOS Software Feature Set	Default AC Power Supply	Available PoE Power	FlexStack-Plus Stacking
WS-C2960XR-48FPD-I	48	2 SFP+	IP Lite	1025W	740W	Optional
WS-C2960XR-48LPD-I	48	2 SFP+	IP Lite	640W	370W	Optional
WS-C2960XR-24PD-I	24	2 SFP+	IP Lite	640W	370W	Optional
WS-C2960XR-48TD-I	48	2 SFP+	IP Lite	250W	-	Optional
WS-C2960XR-24TD-I	24	2 SFP+	IP Lite	250W	-	Optional
WS-C2960XR-48FPS-I	48	4 SFP	IP Lite	1025W	740W	Optional
WS-C2960XR-48LPS-I	48	4 SFP	IP Lite	640W	370W	Optional
WS-C2960XR-24PS-I	24	4 SFP	IP Lite	640W	370W	Optional
WS-C2960XR-48TS-I	48	4 SFP	IP Lite	250W	-	Optional

Part Number	10/100/1000 Ethernet Interfaces	Uplink Interfaces	Cisco IOS Software Feature Set	Default AC Power Supply	Available PoE Power	FlexStack-Plus Stacking
WS-C2960XR-24TS-I	24	4 SFP	IP Lite	250W	-	Optional

Table 3. Cisco Catalyst 2960-X and 2960-XR Accessories

Part Numbers	Description
C2960X-STACK	FlexStack-Plus hot-swappable stacking module
C2960X-STACK=	Spare FlexStack-Plus hot-swappable stacking module
CAB-STK-E-0.5M	FlexStack-Plus stacking cable with a 0.5 m length
CAB-STK-E-1M	FlexStack-Plus stacking cable with a 1.0 m length
CAB-STK-E-3M	FlexStack-Plus stacking cable with a 3.0 m length
CAB-CONSOLE-RJ45	Console cable 6 ft with RJ45
CAB-CONSOLE-USB	Console cable 6 ft with USB Type A and mini-B connectors
RCKMNT-1RU-2KX=	Spare rack-mount kit for Cisco Catalyst 2960-X Series for 19- and 24-inch racks
RCKMNT-REC-2KX=	1 RU recessed rack-mount kit for Cisco Catalyst 2960-X Series
PWR-CLP	Power cable restraining clip

Table 4. Cisco Catalyst 2960-X Redundant Power Supply Options

Part Numbers	Description
PWR-RPS2300	Cisco Redundant Power System 2300 and blower, no power supply
BLNK-RPS2300=	Spare bay insert for Cisco Redundant Power System 2300 for Cisco 2960-X switches
CAB-RPS2300-E=	Spare RPS2300 cable for Cisco Catalyst 2960-X switches
BLWR-RPS2300=	Spare 45 CFM blower for RPS 2300
C3K-PWR-750WAC=	RPS 2300 750W AC power supply spare for the Cisco Catalyst 2960-X

For more information about the RPS-2300, visit cisco.com/en/US/products/ps7130/index.html.

Table 5. Cisco Catalyst 2960-XR Power Supply Options

Part Numbers	Description
PWR-C2-250WAC¹	Redundant FRU power supply and fan for all non-PoE C2960-XR switches, provides 250W AC power
PWR-C2-640WAC¹	Redundant FRU power supply and fan for all 370W PoE+ C2960-XR switches, provides 640W AC power
PWR-C2-1025WAC¹	Redundant FRU power supply and fan for all 740W PoE+ C2960-XR switches, provides 1025W AC power
PWR-C2-250WAC=	Spare FRU power supply and fan for all non-PoE C2960-XR switches, provides 250W AC power
PWR-C2-640WAC=	Spare FRU power supply and fan for all 370W PoE+ C2960-XR switches, provides 640W AC power
PWR-C2-1025WAC=	Spare FRU power supply and fan for all 740W PoE+ C2960-XR switches, provides 1025W AC power

Table 6. Power Cords for Cisco Catalyst 2960-X Product Family

Part Numbers	Description
CAB-16AWG-AC	AC Power cord, 16AWG
CAB-ACE	AC Power Cord (Europe), C13, CEE 7, 1.5M
CAB-L620P-C13-US	Power Cord, 250VAC, 15A, NEMA L6-20 to C13, US
CAB-ACI	AC Power Cord (Italy), C13, CEI 23-16, 2.5m

¹ The first FRU power supply with integrated fan is configured automatically when the switch is ordered. The second redundant FRU power supply is an option while configuring the order.

Part Numbers	Description
CAB-ACU	AC Power Cord (UK), C13, BS 1363, 2.5m
CAB-ACA	AC Power Cord (China/Australia), C13, AS 3112, 2.5m
CAB-ACS	AC Power Cord (Switzerland), C13, IEC 60884-1, 2.5m
CAB-ACR	AC Power Cord (Argentina), C13, EL 219 (IRAM 2073), 2.5m
CAB-ACC	CORD,PWR,CHINA,10A,IEC 320,C13 (APN=CS-PWR-CH)
CAB-JPN-12A	CABASY,POWER CORD,JAPAN 2P, PSE, 12A @125VAC
CAB-L620P-C13-JPN	Power Cord, 250VAC, 15A, NEMA L6-20 to C13, JAPAN
CAB-IND	Power cable for India
CAB-C15-ISR	Power cable for Israel
CAB-ACSA	Power cable for South Africa
CAB-AC15A-90L-US	15A AC Pwr Cord, left-angle (United States)
CAB-ACE-RA	Power Cord Europe, Right Angle
CAB-ACI-RA	Power Cord-Italian, Right Angle
CAB-ACU-RA	Power Cord UK, Right Angle
CAB-ACC-RA	Power Cord China, Right Angle
CAB-ACA-RA	Power Cord, Australian, Right Angle
CAB-ACS-RA	Power Cord for Switzerland, Right Angle
CAB-ACR-RA	Power Cord, Argentina, Right Angle
CAB-JPN-RA	Power Cord, Japan, Right Angle
CAB-C15-CBN	Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors

Table 7. Power Cords for Cisco Catalyst 2960-XR Product Family

Part Numbers	Description
CAB-3KX-AC	AC Power Cord for Catalyst 2960-XR (North America)
CAB-3KX-AC-AP	AC Power Cord for Catalyst 2960-XR (Australia)
CAB-3KX-AC-AR	AC Power Cord for Catalyst 2960-XR (Argentina)
CAB-3KX-AC-SW	AC Power Cord for Catalyst 2960-XR (Switzerland)
CAB-3KX-AC-UK	AC Power Cord for Catalyst 2960-XR (United Kingdom)
CAB-3KX-AC-JP	AC Power Cord for Catalyst 2960-XR (Japan)
CAB-3KX-AC-EU	AC Power Cord for Catalyst 2960-XR (Europe)
CAB-3KX-AC-IT	AC Power Cord for Catalyst 2960-XR (Italy)
CAB-3KX-AC-IN	AC Power Cord for Catalyst 2960-XR (India)
CAB-3KX-AC-CN	AC Power Cord for Catalyst 2960-XR (China)
CAB-3KX-AC-DN	AC Power Cord for Catalyst 2960-XR (Denmark)
CAB-3KX-AC-IS	AC Power Cord for Catalyst 2960-XR (Israel)
CAB-3KX-250VAC-JP	Japan 250V AC Power Cord
CAB-C15-CBN	Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors
CAB-ACBZ-10A	AC Power Cord (Brazil) 10A/250V BR-3-10 plug for <10A device
CAB-ACBZ-12A	AC Power Cord (Brazil) 12A/125V BR-3-20 plug for <12A device

Software Policy for Cisco Catalyst 2960-X Series Switches

Customers with Cisco Catalyst LAN Lite, LAN Base, and IP Lite software feature sets will be 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 one year from the end-of-sale date for this product, whichever occurs earlier.

Cisco Enhanced Limited Lifetime Hardware Warranty

The Cisco Catalyst 2960-X Series Switches come with an enhanced limited lifetime warranty (E-LLW) that includes next-business-day (NBD) 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 further information on warranty terms, visit <http://www.cisco.com/go/warranty>. Table 8 provides information about the E-LLW.

Table 8. E-LLW Details

	Cisco E-LLW
Device covered	Applies to Cisco Catalyst 2960-X Series 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 NBD 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-X 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.

Contact Cisco

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