



# Cisco Catalyst 2960-XR Series Switch Datasheet



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### Contact Us

Tel: +1-626-239-8066 (USA) +852-3050-1066 / +852-3174-6166 /

+852-9795-4940 (Hong Kong)

Fax: +852-3050-1066 (Hong Kong)

Email: [cisco@router-switch.com](mailto:cisco@router-switch.com) (Sales Inquiries)

[ccie-support@router-switch.com](mailto:ccie-support@router-switch.com) (CCIE Technical Support)

## OVERVIEW

Cisco® Catalyst® 2960-XR Series Switches are fixed-configuration, stackable Gigabit Ethernet switches that provide enterprise-class access for campus and branch applications. Designed for operational simplicity to lower total cost of ownership, they enable scalable, secure and energy-efficient business operations with intelligent services and a range of advanced Cisco IOS® Software features.

There are 10 models in this series:

Catalyst 2960XR-24PD-I Switch

Catalyst 2960XR-24PS-I Switch

Catalyst 2960XR-24TD-I Switch

Catalyst 2960XR-24TS-I Switch

Catalyst 2960XR-48FPD-I Switch

Catalyst 2960XR-48FPS-I Switch

Catalyst 2960XR-48LPD-I Switch

Catalyst 2960XR-48TD-I Switch

Catalyst 2960XR-48LPS-I Switch

Catalyst 2960XR-48TS-I Switch

## APPEARANCE

**Figure 1.** Cisco Catalyst 2960XR-24PD-I Switch



**Figure 2.** Catalyst 2960XR-48FPS-I Switch



**Figure 3.** Catalyst 2960XR-24PS-I Switch



**Figure 4.** Catalyst 2960XR-48LPD-I Switch



**Figure 5.** Catalyst 2960XR-24TD-I Switch



**Figure 6.** Catalyst 2960XR-48TD-I Switch



**Figure 7.** Catalyst 2960XR-24TS-I Switch



**Figure 8.** Catalyst 2960XR-48LPS-I Switch



**Figure 9.** Catalyst 2960XR-48FPD-I Switch



**Figure 10.** Catalyst 2960XR-48TS-I Switch



## KEY FEATURES AND BENEFITS

- 24 or 48 Gigabit Ethernet ports with line-rate forwarding performance
- Gigabit Small Form-Factor Pluggable (SFP) or 10G SFP+ uplinks
- FlexStack Plus for stacking of up to 8 switches with 80 Gbps of stack throughput (optional)
- Power over Ethernet Plus (PoE+) support with up to 740W of PoE budget
- 24-port PoE fanless switch for deployment outside the wiring closet
- Reduced power consumption and advanced energy management features
- USB and Ethernet management interfaces for simplified operations
- Application visibility and capacity planning with integrated Full (Flexiable) NetFlow and NetFlow-Lite
- LAN Base or LAN Lite Cisco IOS software features
- Enhanced limited lifetime warranty (E-LLW) offering next-business-day hardware replacement
- Identify, classify and control of trusted internal network traffic through Domain Name System as an Authoritative Source (DNS-AS)
- Power resiliency with optional dual field-replaceable power supplies
- IP Lite Cisco IOS software with dynamic routing and Layer 3 features

## CISCO CATALYST 2960-XR SERIES SWITCHES PRODUCT SPECIFICATIONS

| Hardware Specifications                                                              |                                                             |                         |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------|
| Flash memory                                                                         | 128 MB for LAN Base & IP Lite SKUs, 64 MB for LAN Lite SKUs |                         |
| DRAM                                                                                 | 512 MB for LAN Base and 256 MB for LAN Lite                 |                         |
| CPU                                                                                  | APM86392 600MHz dual core                                   |                         |
| Console Ports                                                                        | USB (Type-B), Ethernet (RJ-45)                              |                         |
| Storage Interface                                                                    | USB (Type-A) for external flash storage                     |                         |
| Network Management Interface                                                         | 10/100 Mbps Ethernet (RJ-45)                                |                         |
| 2960-XR IP Lite Performance and Scalability                                          |                                                             |                         |
| Forwarding bandwidth                                                                 | 108 Gbps                                                    |                         |
| Switching bandwidth*                                                                 | 216 Gbps                                                    |                         |
| Maximum active VLANs                                                                 | 1023                                                        |                         |
| VLAN IDs available                                                                   | 4096                                                        |                         |
| Maximum transmission unit (MTU)-L3 packet                                            | 9198 bytes                                                  |                         |
| Jumbo frame - Ethernet frame                                                         | 9216 bytes                                                  |                         |
| Catalyst 2960-XR Family Forwarding Performance                                       |                                                             |                         |
| Forwarding Rate                                                                      | 64-Byte L3 Packets                                          |                         |
| Cisco Catalyst 2960XR-48FPD-I                                                        | 130.9 Mpps                                                  |                         |
| Cisco Catalyst 2960XR-48LPD-I                                                        | 130.9 Mpps                                                  |                         |
| Cisco Catalyst 2960XR-24PD-I                                                         | 95.2 Mpps                                                   |                         |
| Cisco Catalyst 2960XR-48TD-I                                                         | 130.9 Mpps                                                  |                         |
| Cisco Catalyst 2960XR-24TD-I                                                         | 95.2 Mpps                                                   |                         |
| Cisco Catalyst 2960XR-48FPS-I                                                        | 107.1 Mpps                                                  |                         |
| Cisco Catalyst 2960XR-48LPS-I                                                        | 107.1 Mpps                                                  |                         |
| Cisco Catalyst 2960XR-24PS-I                                                         | 71.4 Mpps                                                   |                         |
| Cisco Catalyst 2960XR-48TS-I                                                         | 107.1 Mpps                                                  |                         |
| Cisco Catalyst 2960XR-24TS-I                                                         | 71.4 Mpps                                                   |                         |
| Cisco Catalyst 2960-XR Series Mechanical Specifications                              |                                                             |                         |
| Models (The Power Supplies Could Add Up to 3.1 " to the Depth of the 2960XR Chassis) |                                                             |                         |
| Dimensions                                                                           | Inches (H x D x W)                                          | Centimeters (H x D x W) |

|                    |                    |                    |
|--------------------|--------------------|--------------------|
| WS-C2960XR-48FPD-I | 1.75 x 16.0 x 17.5 | 4.45 x 40.8 x 44.5 |
| WS-C2960XR-48LPD-I | 1.75 x 16.0 x 17.5 | 4.45 x 40.8 x 44.5 |
| WS-C2960XR-48TD-I  | 1.75 x 16.0 x 17.5 | 4.45 x 40.8 x 44.5 |
| WS-C2960XR-24PD-I  | 1.75 x 16.0 x 17.5 | 4.45 x 40.8 x 44.5 |
| WS-C2960XR-24TD-I  | 1.75 x 16.0 x 17.5 | 4.45 x 40.8 x 44.5 |
| WS-C2960XR-48FPS-I | 1.75 x 16.0 x 17.5 | 4.45 x 40.8 x 44.5 |
| WS-C2960XR-48LPS-I | 1.75 x 16.0x 17.5  | 4.45 x 40.8 x 44.5 |
| WS-C2960XR-48TS-I  | 1.75 x 16.0 x 17.5 | 4.45 x 40.8 x 44.5 |
| WS-C2960XR-24PS-I  | 1.75 x 16.0 x 17.5 | 4.45 x 40.8 x 44.5 |
| WS-C2960XR-24TS-I  | 1.75 x 16.0 x 17.5 | 4.45 x 40.8 x 44.5 |
| <b>Weights</b>     | Pounds             | Kilograms          |
| WS-C2960XR-48FPD-I | 14.6               | 6.6                |
| WS-C2960XR-48LPD-  | 14.0               | 6.4                |
| WS-C2960XR-48TD-I  | 13.3               | 6.1                |
| WS-C2960XR-24PD-I  | 13.6               | 6.2                |
| WS-C2960XR-24TD-I  | 13.0               | 5.9                |
| WS-C2960XR-48FPS-I | 14.7               | 6.7                |
| WS-C2960XR-48LPS-I | 14.2               | 6.4                |
| WS-C2960XR-48TS-I  | 13.2               | 6.0                |
| WS-C2960XR-24PS-I  | 13.7               | 6.2                |
| WS-C2960XR-24TS-I  | 13.0               | 5.9                |

### Environmental Specifications

#### Environmental Ranges

|                                                | Fahrenheit    | Centigrade   |
|------------------------------------------------|---------------|--------------|
| Operating temperature up to 5000 ft (1500 m)   | 23°F to 113°F | -5°C to 45°C |
| Operating temperature up to 10,000 ft (3000 m) | 23°F to 104°F | -5°C to 40°C |
| Short-term exception at sea level*             | 23°F to 131°F | -5°C to 55°C |
| Short-term exception up to 5000 feet (1500 m)* | 23°F to 122°F | -5°C to 50°C |

| Short-term exception up to 10,000 feet (3000 m)* | 23°F to 113°F   | -5°C to 45°C   |               |                |
|--------------------------------------------------|-----------------|----------------|---------------|----------------|
| Short-term exception up to 13,000 feet (4000 m)* | 23° to 104°F    | -5°C to 40°C   |               |                |
| Storage temperature up to 15,000 feet (4573 m)   | -13° to 158°F   | -25° to 70°C   |               |                |
|                                                  | Feet            | Meters         |               |                |
| Operating altitude                               | Up to 10,000    | Up to 3000     |               |                |
| Storage altitude                                 | Up to 13,000    | Up to 4000     |               |                |
| Model                                            | Sound Pressure  |                | Sound Power   |                |
|                                                  | LpA (Typical)   | LpAD (Maximum) | LwA (Typical) | LwAD (Maximum) |
| Cisco Catalyst 2960XR-48FPD-I                    | 40dB            | 43dB           | 5.2B          | 5.5B           |
| Cisco Catalyst 2960XR-48LPD-I                    | 40dB            | 43dB           | 5.2B          | 5.5B           |
| Cisco Catalyst 2960XR-24PD-I                     | 40dB            | 43dB           | 5.2B          | 5.5B           |
| Cisco Catalyst 2960XR-48TD-I                     | 22dB            | 25dB           | 3.3B          | 3.6B           |
| Cisco Catalyst 2960XR-24TD-I                     | 22dB            | 25dB           | 3.3B          | 3.6B           |
| Cisco Catalyst 2960XR-48FPS-I                    | 40dB            | 43dB           | 5.2B          | 5.5B           |
| Cisco Catalyst 2960XR-48LPS-I                    | 40dB            | 43dB           | 5.2B          | 5.5B           |
| Cisco Catalyst 2960XR-24PS-I                     | 40dB            | 43dB           | 5.2B          | 5.5B           |
| Cisco Catalyst 2960XR-48TS-I                     | 22dB            | 25dB           | 3.3B          | 3.6B           |
| Cisco Catalyst 2960XR-24TS-I                     | 22dB            | 25dB           | 3.3B          | 3.6B           |
| Predicted Reliability                            |                 |                |               |                |
| Model                                            | MTBF in hours** |                |               |                |
| Cisco Catalyst 2960XR-48FPD-I                    | 231,590         |                |               |                |
| Cisco Catalyst 2960XR-48LPD-I                    | 275,430         |                |               |                |
| Cisco Catalyst 2960XR-24PD-I                     | 322,740         |                |               |                |
| Cisco Catalyst 2960XR-48TD-I                     | 440,880         |                |               |                |
| Cisco Catalyst 2960XR-24TD-I                     | 561,890         |                |               |                |
| Cisco Catalyst 2960XR-48FPS-I                    | 230,860         |                |               |                |
| Cisco Catalyst 2960XR-48LPS-I                    | 274,380         |                |               |                |
| Cisco Catalyst 2960XR-24PS-I                     | 321,290         |                |               |                |
| Cisco Catalyst 2960XR-48TS-I                     | 438,130         |                |               |                |

| Cisco Catalyst 2960XR-24TS-I            | 557,320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cisco PWR-C2-250WAC                     | 1,000,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Cisco PWR-C2-640WAC                     | 1,000,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Cisco PWR-C2-1025WAC                    | 1,000,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Management and Standards Support</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Category                                | Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Management</b>                       | <ul style="list-style-type: none"> <li>• BRIDGE-MIB</li> <li>• CISCO-CABLE-DIAG-MIB</li> <li>• CISCO-CDP-MIB</li> <li>• CISCO-CLUSTER-MIB</li> <li>• CISCO-CONFIG-COPY-MIB</li> <li>• CISCO-CONFIG-MAN-MIB</li> <li>• CISCO-DHCP-SNOOPING-MIB</li> <li>• CISCO-ENTITY-VENDORTYPE-OID-MIB</li> <li>• CISCO-ENVMON-MIB</li> <li>• CISCO-ERR-DISABLE-MIB</li> <li>• CISCO-FLASH-MIB</li> <li>• CISCO-FTP-CLIENT-MIB</li> <li>• CISCO-IGMP-FILTER-MIB</li> <li>• CISCO-IMAGE-MIB</li> <li>• CISCO-TC-MIB</li> <li>• CISCO-TCP-MIB</li> <li>• CISCO-UDLDP-MIB</li> <li>• CISCO-VLAN-IFTABLE</li> <li>• RELATIONSHIP-MIB</li> <li>• CISCO-VLAN-MEMBERSHIP-MIB</li> <li>• CISCO-VTP-MIB</li> <li>• ENTITY-MIB</li> <li>• ETHERLIKE-MIB</li> <li>• IEEE8021-PAE-MIB</li> <li>• IEEE8023-LAG-MIB</li> <li>• IF-MIB</li> <li>• INET-ADDRESS-MIB</li> <li>• OLD-CISCO-CHASSIS-MIB</li> <li>• OLD-CISCO-FLASH-MIB</li> <li>• OLD-CISCO-INTERFACES-MIB</li> <li>• OLD-CISCO-IP-MIB</li> <li>• OLD-CISCO-SYS-MIB</li> <li>• OLD-CISCO-TCP-MIB</li> <li>• OLD-CISCO-TS-MIB</li> <li>• RFC1213-MIB</li> <li>• RMON-MIB</li> <li>• RMON2-MIB</li> <li>• SNMP-FRAMEWORK-MIB</li> <li>• SNMP-MPD-MIB</li> <li>• SNMP-NOTIFICATION-MIB</li> <li>• SNMP-TARGET-MIB</li> </ul> |



|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                      |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | <ul style="list-style-type: none"> <li>• CISCO-IP-STAT-MIB</li> <li>• CISCO-LAG-MIB</li> <li>• CISCO-MAC-NOTIFICATION-MIB</li> <li>• CISCO-MEMORY-POOL-MIB</li> <li>• CISCO-PAGP-MIB</li> <li>• CISCO-PING-MIB</li> <li>• CISCO-POE-EXTENSIONS-MIB</li> <li>• CISCO-PORT-QOS-MIB</li> <li>• CISCO-PORT-SECURITY-MIB</li> <li>• CISCO-PORT-STORM-CONTROL-MIB</li> <li>• CISCO-PRODUCTS-MIB</li> <li>• CISCO-PROCESS-MIB</li> <li>• CISCO-RTTMON-MIB</li> <li>• CISCO-SMI-MIB</li> <li>• CISCO-STP-EXTENSIONS-MIB</li> <li>• CISCO-SYSLOG-MIB</li> </ul> | <ul style="list-style-type: none"> <li>• SNMPv2-MIB</li> <li>• TCP-MIB</li> <li>• UDP-MIB</li> <li>• ePM MIB</li> <li>• CISCO-FLEXSTACK-PLUS-MIB (2960-X)</li> </ul> |
| <b>Standards</b> | <ul style="list-style-type: none"> <li>• IEEE 802.1D Spanning Tree Protocol</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>• IEEE 802.3 10BASE-T</li> <li>• IEEE 802.3u 100BASE-TX</li> </ul>                                                            |

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | <ul style="list-style-type: none"> <li>• IEEE 802.1p CoS Prioritization</li> <li>• IEEE 802.1Q VLAN</li> <li>• IEEE 802.1s</li> <li>• IEEE 802.1w</li> <li>• IEEE 802.1X</li> <li>• IEEE 802.1ab (LLDP)</li> <li>• IEEE 802.3ad</li> <li>• IEEE 802.3af and IEEE 802.3at</li> <li>• IEEE 802.3ah (100BASE-X single/multimode fiber only)</li> <li>• IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports</li> </ul> | <ul style="list-style-type: none"> <li>• IEEE 802.3ab 1000BASE-T</li> <li>• IEEE 802.3z 1000BASE-X</li> <li>• RMON I and II standards</li> <li>• SNMP v1, v2c, and v3</li> <li>• IEEE 802.3az</li> <li>• IEEE 802.3ae 10Gigabit Ethernet</li> <li>• IEEE 802.1ax</li> </ul>                                                                                                                                                                                                                                                                                                                                                          |
| <b>RFC compliance</b> | <ul style="list-style-type: none"> <li>• RFC 768 - UDP</li> <li>• RFC 783 - TFTP</li> <li>• RFC 791 - IP</li> <li>• RFC 792 - ICMP</li> <li>• RFC 793 - TCP</li> <li>• RFC 826 - ARP</li> <li>• RFC 854 - Telnet</li> <li>• RFC 951 - Bootstrap Protocol (BOOTP)</li> <li>• RFC 959 - FTP</li> <li>• RFC 1112 - IP Multicast and IGMP</li> </ul>                                                                                     | <ul style="list-style-type: none"> <li>• RFC 1902-1907 - SNMP v2</li> <li>• RFC 1981 - Maximum Transmission Unit (MTU) Path Discovery IPv6</li> <li>• RFC 2068 - HTTP</li> <li>• RFC 2131 - DHCP</li> <li>• RFC 2138 - RADIUS</li> <li>• RFC 2233 - IF MIB v3</li> <li>• RFC 2373 - IPv6 Aggregatable Addrs</li> <li>• RFC 2460 - IPv6</li> <li>• RFC 2461 - IPv6 Neighbor Discovery</li> <li>• RFC 2462 - IPv6 Autoconfiguration</li> <li>• RFC 2463 - ICMP IPv6</li> <li>• RFC 2474 - Differentiated Services (DiffServ) Precedence</li> <li>• RFC 2597 - Assured Forwarding</li> <li>• RFC 2598 - Expedited Forwarding</li> </ul> |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                         |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> <li>• RFC 1157 - SNMP v1</li> <li>• RFC 1166 - IP Addresses</li> <li>• RFC 1256 - Internet Control Message Protocol (ICMP) Router Discovery</li> <li>• RFC 1305 - NTP</li> <li>• RFC 1492 - TACACS+</li> <li>• RFC 1493 - Bridge MIB</li> <li>• RFC 1542 - BOOTP extensions</li> <li>• RFC 1643 - Ethernet Interface MIB</li> <li>• RFC 1757 - RMON</li> <li>• RFC 1901 - SNMP v2C</li> </ul> | <ul style="list-style-type: none"> <li>• RFC 2571 - SNMP Management</li> <li>• RFC 2865 - RADIUS</li> <li>• RFC 3046 - DHCP Relay Agent Information Option</li> <li>• RFC 3376 - IGMP v3</li> <li>• RFC 3580 - 802.1X RADIUS</li> </ul> |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Input Voltage and Current

| Model                         | Voltage (Auto ranging) | Current     | Frequency  |
|-------------------------------|------------------------|-------------|------------|
| Cisco Catalyst 2960XR-48FPD-I | 100 to 240 VAC         | 10A to 5A   | 50 to 60Hz |
| Cisco Catalyst 2960XR-48LPD-I |                        | 6A to 3 A   |            |
| Cisco Catalyst 2960XR-24PD-I  |                        | 6A to 3 A   |            |
| Cisco Catalyst 2960XR-48TD-I  |                        | 1A to 0.5 A |            |
| Cisco Catalyst 2960XR-24TD-I  |                        | 1A to 0.5 A |            |
| Cisco Catalyst 2960XR-48FPS-I |                        | 10A to 5 A  |            |
| Cisco Catalyst 2960XR-48LPS-I |                        | 6A to 3 A   |            |
| Cisco Catalyst 2960XR-24PS-I  |                        | 6A to 3 A   |            |
| Cisco Catalyst 2960XR-48TS-I  |                        | 1A to 0.5 A |            |
| Cisco Catalyst 2960XR-24TS-I  |                        | 1A to 0.5 A |            |

| Power Rating (Switch maximum consumption values) |                                                                                                                                                    |             |              |                  |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| Cisco Catalyst 2960XR-48FPD-I                    | 0.89KVA                                                                                                                                            |             |              |                  |
| Cisco Catalyst 2960XR-48LPD-I                    | 0.48KVA                                                                                                                                            |             |              |                  |
| Cisco Catalyst 2960XR-24PD-I                     | 0.46KVA                                                                                                                                            |             |              |                  |
| Cisco Catalyst 2960XR-48TD-I                     | 0.047KVA                                                                                                                                           |             |              |                  |
| Cisco Catalyst 2960XR-24TD-I                     | 0.039KVA                                                                                                                                           |             |              |                  |
| Cisco Catalyst 2960XR-48FPS-I                    | 0.89KVA                                                                                                                                            |             |              |                  |
| Cisco Catalyst 2960XR-48LPS-I                    | 0.47KVA                                                                                                                                            |             |              |                  |
| Cisco Catalyst 2960XR-24PS-I                     | 0.46KVA                                                                                                                                            |             |              |                  |
| Cisco Catalyst 2960XR-48TS-I                     | 0.046KVA                                                                                                                                           |             |              |                  |
| Cisco Catalyst 2960XR-24TS-I                     | 0.038KVA                                                                                                                                           |             |              |                  |
| Measured Power Consumption in Watts              |                                                                                                                                                    |             |              |                  |
| Model                                            | 0% Traffic                                                                                                                                         | 10% Traffic | 100% Traffic | Weighted Average |
| Cisco Catalyst 2960XR-48FPD-I                    | 46.7                                                                                                                                               | 61.8        | 62.5         | 61.9             |
| Cisco Catalyst 2960XR-48LPD-I                    | 40.7                                                                                                                                               | 54.6        | 55.9         | 54.8             |
| Cisco Catalyst 2960XR-24PD-I                     | 36.1                                                                                                                                               | 42.9        | 43.7         | 43.0             |
| Cisco Catalyst 2960XR-48TD-I                     | 29.7                                                                                                                                               | 44.7        | 45.6         | 44.8             |
| Cisco Catalyst 2960XR-24TD-I                     | 29.3                                                                                                                                               | 37.2        | 38.1         | 37.3             |
| Cisco Catalyst 2960XR-48FPS-I                    | 44.8                                                                                                                                               | 58.5        | 58.8         | 58.5             |
| Cisco Catalyst 2960XR-48LPS-I                    | 37.9                                                                                                                                               | 52.8        | 53.0         | 52.9             |
| Cisco Catalyst 2960XR-24PS-I                     | 36.5                                                                                                                                               | 43.2        | 43.4         | 43.2             |
| Cisco Catalyst 2960XR-48TS-I                     | 30.0                                                                                                                                               | 44.8        | 45.0         | 44.8             |
| Cisco Catalyst 2960XR-24TS-I                     | 28.8                                                                                                                                               | 36.0        | 36.2         | 36.0             |
| Safety and Compliance                            |                                                                                                                                                    |             |              |                  |
| Specification                                    | Description                                                                                                                                        |             |              |                  |
| 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                                                                                                                     |             |              |                  |

|                                     |                                                                                                                                                                   |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | 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 |
| <b>EMC - Immunity</b>               | EN55024<br>CISPR24<br>EN300386<br>KN24                                                                                                                            |
| <b>Environmental</b>                | Reduction of Hazardous Substances (RoHS) including Directive 2011/65/EU                                                                                           |
| <b>Telco</b>                        | Common Language Equipment Identifier (CLEI) code                                                                                                                  |
| <b>US Government Certifications</b> | USGv6 and IPv6 Ready Logo                                                                                                                                         |

## CISCO CATALYST 2960-XR SERIES SWITCHES BASIC ORDERING INFORMATION

### Cisco Catalyst 2960-XR Configurations Ordering Information

| Part Number                               | 10/100/1000 Ethernet Interfaces | Uplink Interfaces | Cisco IOS Software Feature Set | Available PoE Power | Second FRU Power Supply Option | FlexStack-Plus Stacking |
|-------------------------------------------|---------------------------------|-------------------|--------------------------------|---------------------|--------------------------------|-------------------------|
| <a href="#"><u>WS-C2960XR-48FPD-I</u></a> | 48                              | 2 SFP+            | IP Lite                        | 740W                | 1025W                          | Optional                |
| <a href="#"><u>WS-C2960XR-48LPD-I</u></a> | 48                              | 2 SFP+            | IP Lite                        | 370W                | 640W                           | Optional                |
| <a href="#"><u>WS-C2960XR-24PD-I</u></a>  | 24                              | 2 SFP+            | IP Lite                        | 370W                | 640W                           | Optional                |

|                                           |    |        |         |      |       |          |
|-------------------------------------------|----|--------|---------|------|-------|----------|
| <a href="#"><u>WS-C2960XR-48TD-I</u></a>  | 48 | 2 SFP+ | IP Lite | -    | 250W  | Optional |
| <a href="#"><u>WS-C2960XR-24TD-I</u></a>  | 24 | 2 SFP+ | IP Lite | -    | 250W  | Optional |
| <a href="#"><u>WS-C2960XR-48FPS-I</u></a> | 48 | 4 SFP  | IP Lite | 740W | 1025W | Optional |
| <a href="#"><u>WS-C2960XR-48LPS-I</u></a> | 48 | 4 SFP  | IP Lite | 370W | 640W  | Optional |
| <a href="#"><u>WS-C2960XR-24PS-I</u></a>  | 24 | 4 SFP  | IP Lite | 370W | 640W  | Optional |
| <a href="#"><u>WS-C2960XR-48TS-I</u></a>  | 48 | 4 SFP  | IP Lite | -    | 250W  | Optional |
| <a href="#"><u>WS-C2960XR-24TS-I</u></a>  | 24 | 4 SFP  | IP Lite | -    | 250W  | Optional |

Cisco Catalyst 2960-XR Power Supply Options

|                                        |                                                                                                |
|----------------------------------------|------------------------------------------------------------------------------------------------|
| <a href="#"><u>PWR-C2-250WAC=</u></a>  | Second FRU power supply and fan for all non-PoE 2960-XR switches, provides 250W AC of power    |
| PWR-C2-640WAC4                         | Second FRU power supply and fan for all 370W PoE+ 2960-XR switches, provides 640W AC of power  |
| PWR-C2-1025WAC4                        | Second FRU power supply and fan for all 740W PoE+ 2960-XR switches, provides 1025W AC of power |
| PWR-C2-250WAC=                         | Spare FRU power supply and fan for all non-PoE 2960-XR switches, provides 250W AC of power     |
| <a href="#"><u>PWR-C2-640WAC=</u></a>  | Spare FRU power supply and fan for all 370W PoE+ 2960-XR switches, provides 640W AC of power   |
| <a href="#"><u>PWR-C2-1025WAC=</u></a> | Spare FRU power supply and fan for all 740W PoE+ 2960-XR switches, provides 1025W AC of power  |

Power Cords for Cisco Catalyst 2960-XR Product Family

|                                   |                                                         |
|-----------------------------------|---------------------------------------------------------|
| <a href="#"><u>CAB-TA-NA=</u></a> | AC power cord for Cisco Catalyst 2960XR (North America) |
| <a href="#"><u>CAB-TA-AP=</u></a> | AC power cord for Cisco Catalyst 2960XR (Australia)     |

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>CAB-TA-AR=</b>      | AC power cord for Cisco Catalyst 2960XR (Argentina)        |
| <b>CAB-TA-SW=</b>      | AC power cord for Cisco Catalyst 2960XR (Switzerland)      |
| <b>CAB-TA-UK=</b>      | AC power cord for Cisco Catalyst 2960XR (United Kingdom)   |
| <b>CAB-TA-JP=</b>      | AC power cord for Cisco Catalyst 2960XR (Japan)            |
| <b>CAB-TA-250V-JP=</b> | Japan 250VAC power cord for Cisco Catalyst 2960XR (Japan)  |
| <b>CAB-TA-EU=</b>      | AC power cord for Cisco Catalyst 2960XR (Europe)           |
| <b>CAB-TA-IT=</b>      | AC power cord for Cisco Catalyst 2960XR (Italy)            |
| <b>CAB-TA-IN=</b>      | AC power cord for Cisco Catalyst 2960XR (India)            |
| <b>CAB-TA-CN=</b>      | AC power cord for Cisco Catalyst 2960XR (China)            |
| <b>CAB-TA-DN=</b>      | AC power cord for Cisco Catalyst 2960XR (Denmark)          |
| <b>CAB-TA-IS=</b>      | AC power cord for Cisco Catalyst 2960XR (Israel)           |
| <b>CAB-C15-CBN=</b>    | Cabinet jumper power cord, 250 VAC 13A, C14-C15 connectors |
| <b>CAB-C15-CBN-JP=</b> | Japan Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15      |
| <b>CAB-TA-JP-RA=</b>   | Japan AC Right Angled Power Cord for Cisco Catalyst 2960XR |

## SOURCES

[https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-2960-x-series-switches/data\\_sheet\\_c78-728232.html](https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-2960-x-series-switches/data_sheet_c78-728232.html)

<https://www.cisco.com/c/en/us/support/switches/catalyst-2960-xr-series-switches/tsd-products-support-series-home.html>