Cisco Catalyst 2960-Plus Series Switch Datasheet

CONTENT

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OVERVIEW

The Cisco® Catalyst® 2960-Plus Series Switches are fixed-configuration Fast Ethernet switches that provide enterprise-class Layer 2 switching for branch offices, conventional workspaces, and infrastructure applications. They enable reliable and secure operations with lower total cost of ownership through a range of Cisco IOS® software features, including Cisco Catalyst SmartOperations.

APPEARANCE

Figure 1. Cisco Catalyst 2960-PLUS Series Switches

KEY FEATURES AND BENEFITS

The Cisco Catalyst 2960-Plus Series provides cost-effective, enterprise class Ethernet switching for:

- Branch offices, remote sites, and retail locations
- Conventional desktop workspaces
- Building infrastructure, physical security, and other nontraditional access applications

Benefits of the 2960-Plus include:

- Robust quality of service (QoS) that prioritizes voice and critical business applications
- Flexible security features that can limit access to the network and mitigate threats
- Tools that reduce total cost of ownership through simplified operations and automation

PRODUCT SPECIFICATIONS OF CISCO CATALYST 2960-PLUS SWITCH

Cisco Catalyst 2960-Plus Series Configurations				
Model	10/100 Ethernet Interfaces	Uplink Interfaces	Cisco IOS Software Feature Set	Available PoE Power

Cisco Catalyst 2960-Plus 48PST-L	48	2 SFP and 2 1000BASE-T	LAN Base	370W
Cisco Catalyst 2960-Plus 24PC-L	24	2 (SFP or 1000BASE-T)	LAN Base	370W
Cisco Catalyst 2960-Plus 24LC-L	24	2 (SFP or 1000BASE-T)	LAN Base	123W
Cisco Catalyst 2960-Plus 48TC-L	48	2 (SFP or 1000BASE-T)	LAN Base	-
Cisco Catalyst 2960-Plus 24TC-L	24	2 (SFP or 1000BASE-T)	LAN Base	-
Cisco Catalyst 2960-Plus 48PST-S	48	2 SFP and 2 1000BASE-T	LAN Lite	370W
Cisco Catalyst 2960-Plus 24PC-S	24	2 (SFP or 1000BASE-T)	LAN Lite	370W
Cisco Catalyst 2960-Plus 24LC-S	24	2 (SFP or 1000BASE-T)	LAN Lite	123W
Cisco Catalyst 2960-Plus 48TC-S	48	2 (SFP or 1000BASE-T)	LAN Lite	-
Cisco Catalyst 2960-Plus 24TC-S	24	2 (SFP or 1000BASE-T)	LAN Lite	-

Switch PoE Power Capacity		
Switch Model	Maximum Number of PoE (IEEE 802.3af) Ports*	Available PoE Power
Cisco Catalyst 2960-Plus 48PST-L	24 ports up to 15.4W	370W

Cisco Catalyst 2960-Plus 24PC-L	24 ports up to 15.4W	370W
Cisco Catalyst 2960-Plus 24LC-L	8 ports up to 15.4W	123W
Cisco Catalyst 2960-Plus 48PST-S	24 ports up to 15.4W	370W
Cisco Catalyst 2960-Plus 24PC-S	24 ports up to 15.4W	370W
Cisco Catalyst 2960-Plus 24LC-S	8 ports up to 15.4W	123W

Cisco Catalyst 2960-Plus Series Hardware

Hardware Specifications

Flash memory	64 MB
DRAM	128 MB

Cisco Catalyst 2960-Plus Series Performance

Performance and Scalability

	LAN Base (-L) Models	LAN Lite (-S) Models
Forwarding bandwidth	16 Gbps	16 Gbps
Maximum active VLANs	255	64
VLAN IDs available	4K	4K
Maximum transmission unit (MTU) - L3 packet	9000 bytes	9000 bytes
Jumbo frame - Ethernet frame	9018 bytes	9018 bytes

Cisco Catalyst 2960-Plus Series Forwarding Performance Optional

Forwarding Rate: 64-Byte L3 Packets, Millions of packets per second	
Cisco Catalyst 2960-Plus 48PST-L	13.1
Cisco Catalyst 2960-Plus 24PC-L	6.5
Cisco Catalyst 2960-Plus 24LC-L	6.5
Cisco Catalyst 2960-Plus 48TC-L	10.1
Cisco Catalyst 2960-Plus 24TC-L	6.5
Cisco Catalyst 2960-Plus 48PST-S	13.1
Cisco Catalyst 2960-Plus 24PC-S	6.5
Cisco Catalyst 2960-Plus 24LC-S	6.5
Cisco Catalyst 2960-Plus 48TC-S	10.1
Cisco Catalyst 2960-Plus 24TC-S	6.5

Cisco Catalyst 2960-Plus Mechanical and Environmental Specifications		
Dimensions (H x W x D)		
Model	Inches	Centimeters
Cisco Catalyst 2960-Plus 48PST-L		
Cisco Catalyst 2960-Plus 24PC-L	1.73 x 17.70 x 13.07	4.4 x 45.0 x 33.2
Cisco Catalyst 2960-Plus 24LC-L		
Cisco Catalyst 2960-Plus 48TC-L	1.73 x 17.70 x 9.52	4.4 x 45.0 x 24.2
Cisco Catalyst 2960-Plus 24TC-L		

Cisco Catalyst 2960-Plus 48PST-S		
Cisco Catalyst 2960-Plus 24PC-S	1.73 x 17.70 x 13.07	4.4 x 45.0 x 33.2
Cisco Catalyst 2960-Plus 24LC-S		
Cisco Catalyst 2960-Plus 48TC-S	1.73 x 17.70 x 9.52	4.4 x 45.0 x 24.2
Cisco Catalyst 2960-Plus 24TC-S		

Weight		
Model	Pounds	Kilograms
Cisco Catalyst 2960-Plus 48PST-L	12	5.4
Cisco Catalyst 2960-Plus 24PC-L	12	5.4
Cisco Catalyst 2960-Plus 24LC-L	10	4.5
Cisco Catalyst 2960-Plus 48TC-L	8	3.6
Cisco Catalyst 2960-Plus 24TC-L	8	3.6
Cisco Catalyst 2960-Plus 48PST-S	12	5.4
Cisco Catalyst 2960-Plus 24PC-S	12	5.4
Cisco Catalyst 2960-Plus 24LC-S	10	4.5
Cisco Catalyst 2960-Plus 48TC-S	8	3.6
Cisco Catalyst 2960-Plus 24TC-S	8	3.6

Environmental Ranges		
	Fahrenheit	Centigrade

Operating temperature up to 5000 ft (1500 m)	23º to 113ºF	-5º to 45ºC
Operating temperature up to 10,000 ft (3000 m)	23º to 104ºF	-5º to 40ºC
Short-term exception at sea level*	23º to 131ºF	-5º to 55ºC
Short-term exception up to 5000 feet (1500 m)	23º to 122ºF	-5º to 50ºC
Short-term exception up to 10,000 feet (3000 m)	23º to 113ºF	-5º to 45ºC
Short-term exception up to 13,000 feet (4000 m)	23º to 104ºF	-5º to 40ºC
Storage temperature up to 15,000 feet (4573 m)	23º to 158ºF	-25º to 70ºC
	Feet	Meters
Operating altitude	Up to 10,000	Up to 3,000
Storage altitude	Up to 13,000	Up to 4,000
Operating relative humidity	10% to 95% noncondensing	
Storage relative humidity	10% to 95% noncondensing	
Acoustic Noise		
Measured per ISO 7779 and declared per ISO 9296.		
Bystander positions operating mode at 25°C ambient.		
	Sound Pressure, dBA	Sound Power, dbA

Model	Typical, LpAm	Maximum, LpAD	Typical, LwA	Maximum, LwAD
Cisco Catalyst 2960-Plus 48PST-L	41	44	51	54
Cisco Catalyst 2960-Plus 24PC-L	43	46	53	56
Cisco Catalyst 2960-Plus 24LC-L	43	46	53	56
Cisco Catalyst 2960-Plus 48TC-L	33	36	43	46
Cisco Catalyst 2960-Plus 24TC-L	33	36	43	46
Cisco Catalyst 2960-Plus 48PST-S	41	44	51	54
Cisco Catalyst 2960-Plus 24PC-S	43	46	53	56
Cisco Catalyst 2960-Plus 24LC-S	43	46	53	56
Cisco Catalyst 2960-Plus 48TC-S	33	36	43	46
Cisco Catalyst 2960-Plus 24TC-S	33	36	43	46

Predicted Reliability

Model	MTBF in thousands of hours**
Cisco Catalyst 2960-Plus 48PST-L	312
Cisco Catalyst 2960-Plus 24PC-L	382
Cisco Catalyst 2960-Plus 24LC-L	498
Cisco Catalyst 2960-Plus 48TC-L	623
Cisco Catalyst 2960-Plus 24TC-L	667

Cisco Catalyst 2960-Plus 48PST-S	312
Cisco Catalyst 2960-Plus 48PST-S	381
Cisco Catalyst 2960-Plus 24LC-S	498
Cisco Catalyst 2960-Plus 48TC-S	623
Cisco Catalyst 2960-Plus 24TC-S	667

CISCO CATALYST 2960-PLUS SWITCH BASIC ORDERING INFORMATION

Product Number	Product Description
WS-C2960+48PST-L	Catalyst 2960 Plus 48 10/100 PoE + 2 1000BT +2 SFP LAN Base
WS-C2960+24PC-L	Catalyst 2960 Plus 24 Port 10/100 PoE + 2 T/SFP LAN Base
WS-C2960+24LC-L	Catalyst 2960 plus 24 Port 10/100 (8 PoE) + 2 T/SFP LAN Base
WS-C2960+48TC-L	Catalyst 2960 Plus 48 10/100 + 2 T/SFP LAN Base
WS-C2960+24TC-L	Catalyst 2960 Plus 24 10/100 + 2T/SFP LAN Base
WS-C2960+24TC-S	Catalyst 2960 Plus 24 10/100 + 2 T/SFP LAN Lite
WS-C2960+48PST-S	Catalyst 2960 Plus 48 10/100 PoE + 2 1000BT +2 SFP LAN Lite
WS-C2960+24PC-S	Catalyst 2960 Plus 24 10/100 PoE + 2 T/SFP LAN Lite
WS-C2960+24LC-S	Catalyst 2960 Plus 24 10/100 (8 PoE) + 2 T/SFP LAN Lite
WS-C2960+48TC-S	Catalyst 2960 Plus 48 10/100 + 2 T/SFP LAN Lite
WS-C2960+24TC-S	Catalyst 2960 Plus 24 10/100 + 2 T/SFP LAN Lite

WS-C2960+48TC-L	Catalyst 2960 Plus 48 10/100 + 2 T/SFP LAN Base
Cisco Catalyst 2960-Plus Accessories	
CAB-CONSOLE-RJ45	Console cable 6 ft with RJ45
RCKMNT-1RU=	Spare rack-mount kit for Cisco Catalyst 2960 and 2960-Plus Series for 19- and 24-inch racks
RCKMNT-REC-1RU=	1 RU recessed rack-mount kit for Cisco Catalyst 2960 and 2960-Plus Series
PWR-CLP	Power cable restraining clip
Cisco Catalyst 2960-Plus Redundant Power Supply Options	
PWR-RPS2300	Cisco Redundant Power System 2300 and blower, no power supply
BLNK-RPS2300=	Spare bay insert for Cisco Redundant Power System 2300
CAB-RPS2300=	Spare RPS2300 cable for Cisco Catalyst 2960 switches
BLWR-RPS2300=	Spare 45 CFM blower for RPS 2300
C3K-PWR-750WAC=	RPS 2300 750W AC power supply spare for Cisco Catalyst 2960 switches
ACC-RPS2300=	Spare accessory kit for Cisco Redundant Power System 2300
Power Cords for Cisco Catalyst 2960-Plus Series	
CAB-AC=	AC Power Cord (US, Canada), C13, NEMA 5-15P, 2.5m
CAB-ACE=	AC Power Cord (Europe), C13, CEE 7, 1.5m
CAB-ACI=	AC Power Cord (Italy), C13, CEI 23-16, 2.5m
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	AC Power Cord (China), C13, PRC/3 GB2099/GB1002
CAB-JPN	AC Power Cord (Japan), C13, Japan 2-prong, 1.8m
CAB-IND-10A	AC Power Cord (India), C13, IS1293, 2.5m
CAB-ACBZ-10A	AC Power Cord (Brazil), C13,BR-3-20, 10A
CAB-ACSA	AC Power Cord (South Africa), C15, SABS 164-1, 1.8m

SOURCES

https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-2960-plus-series-switches/data_sheet_c78-728003.html