

Technical Specifications

This appendix provides technical specifications for the Catalyst 2926 and Catalyst 2926G series switches and for the 10/100-Mbps Fast Ethernet autosensing switched ports.

Catalyst 2926 and Catalyst 2926G series switch specifications are provided in Table A-1.

Table A-1 Specifications for the Catalyst 2926 and Catalyst 2926G Series Switches

Item	Specification
Environmental	
Temperature, ambient operating	32°F (0°C) to 104°F (40°C)
Temperature, ambient nonoperating and storage	–40 to 158°F (–40 to 70°C)
Humidity (RH), ambient (noncondensing) operating	10% to 90%
Humidity (RH), ambient (noncondensing) nonoperating and storage	5% to 95%
Altitude, operating	Sea level to 10,000 ft (3050 m)
Altitude, nonoperating	Sea level to 40,000 ft (12,200 m)
Switching Components	
Backplane	1.2-Gbps, frame-based switching fabric
Microprocessor	25-MHz 68EC040 for the NMP ¹ (Catalyst 2926 series switch) 150-MHz IDT R4700 RISC processor (Catalyst 2926G series switch)

Table A-1 Specifications for the Catalyst 2926 and Catalyst 2926G Series Switches (continued)

Item	Specification
Memory	
Catalyst 2926 series switch	DRAM: 16 MB Flash (onboard): 4 MB NVRAM: 256 KB
Catalyst 2926G series switch	DRAM: 32 MB Flash (onboard): 4 MB Flash PC Card: 16 MB or 20 MB NVRAM: 512 KB
Physical Characteristics	
Dimensions (H x W x D)	5.75 x 17 x 18 in. (14.6 x 43.18 x 46.72 cm)
Weight	35 lb (15.9 kg) with 2 power supplies, 24 switched 10/100-Mbps ports, and 1 supervisor engine
Connectors	
Catalyst 2926 series supervisor engine	<ul style="list-style-type: none"> • RJ-45 IEEE 802.3u 100BaseTX Fast Ethernet • MII 100BaseTX Fast Ethernet • SC multimode fiber-optic 100BaseFX Fast Ethernet
Catalyst 2926G series supervisor engine	<ul style="list-style-type: none"> • SC multimode fiber-optic 1000BaseSX • SC multimode or single-mode fiber-optic 1000BaseLX/LH
10/100-Mbps Fast Ethernet ports	RJ-45 IEEE 802.3u Fast Ethernet 10/100BaseTX

Table A-1 Specifications for the Catalyst 2926 and Catalyst 2926G Series Switches (continued)

Item	Specification
AC Power without Power Factor Correction	
Power supply output capacity	155W maximum
System power dissipation	155W maximum configuration, 120W typical
System heat dissipation	850 Btus ² /hr
AC-input voltage	100 to 240 VAC
AC frequency	50 to 60 Hz
AC-input current	6.0A maximum
Power supply output	+5.15V @ 26A, +12V @ 1.5A, +24V @ 0.1A
AC Power with Power Factor Correction	
Power supply output capacity	175W maximum
System power dissipation	155W maximum configuration, 100W typical
System heat dissipation	950 Btus/hr
AC-input voltage	90 to 264 VAC autoranging
AC frequency	47 to 63 Hz
AC-input current	3.0A maximum @ 110 VAC, 1.5A maximum @ 220 VAC
Power supply output	+5.15V @ 30A, +12V @ 1.5A, +24V @ 0.1A
Airflow	300 cfm ³ through system fan assembly

Table A-1 Specifications for the Catalyst 2926 and Catalyst 2926G Series Switches (continued)

Item	Specification
Station-to-station cabling distances (maximum)	
Catalyst 2926 series switch	<p>Fiber-optic supervisor engine: MMF⁴: 1.2 miles (2 km) full duplex, 121 feet (400 m), half duplex</p> <p>10/100BaseTX Fast Ethernet: Category 5 UTP⁵: 328 ft (100 m)</p>
Catalyst 2926G series switch	<p>1000BaseSX Gigabit Ethernet MMF (850 nm wavelength):</p> <ul style="list-style-type: none"> • 62.5-micron core size, 160 MHz-km modal bandwidth, 722 ft. (220 m) cable distance • 62.5-micron core size, 200 MHz-km modal bandwidth, 902 ft. (275 m) cable distance • 50.0-micron core size, 400 MHz-km modal bandwidth, 1640 ft. (500 m) cable distance • 50.0-micron core size, 500 MHz-km modal bandwidth, 1804 ft. (550 m) cable distance <p>1000BaseLX/LH Gigabit Ethernet MMF⁶ (1300 nm wavelength):</p> <ul style="list-style-type: none"> • 62.5-micron core size, 500 MHz-km modal bandwidth, 1804 ft. (550 m) cable distance • 50.0-micron core size, 400 MHz-km modal bandwidth, 1804 ft. (550 m) cable distance • 50.0-micron core size, 500 MHz-km modal bandwidth, 1804 ft. (550 m) cable distance <p>1000BaseLX/LH Gigabit Ethernet SMF⁷ (1300-nm wavelength):</p> <ul style="list-style-type: none"> • 9/10-micron core size, 32,810 ft. (10 km) cable distance
Frame processing	Transparent bridging (802.1d)

Table A-1 Specifications for the Catalyst 2926 and Catalyst 2926G Series Switches (continued)

Item	Specification
Network management	SNMP ⁸ agent
Agency approvals	
Safety	UL ¹⁰ 1950, CSA ¹¹ C22.2 No. 950, EN 60950, IEC 950, TS ¹² 001, AS/NZS 3260, CE ¹³ Marking
EMI ⁹	FCC Class A (47 CFR, Part 15), ICES ¹⁴ -003 Class A, CISPR22 Class A, CE Marking, EN55022 Class A and VCCI Class A, AS/NZS3548 Class A with UTP cables EN55022 Class B, CISPR22 Class B, AS/NZS 3590 Class B, VCCI ¹⁵ Class B with STP ¹⁶ cables

- 1 NMP = Network Management Processor
- 2 Btus = British thermal units
- 3 cfm = cubic feet per minute
- 4 MMF = multimode fiber
- 5 UTP = unshielded twisted-pair
- 6 Patch cord recommended. See the “Connecting the Patch Cord (Catalyst 2926GL Switch Only)” section on page 3-11 for details.
- 7 SMF = single-mode fiber
- 8 SNMP = Simple Network Management Protocol
- 9 EMI = electromagnetic interference
- 10 UL = Underwriters Laboratory
- 11 CSA = Canadian Standards Association
- 12 TS = Technical Standard
- 13 CE = Conformance Europeene
- 14 ICES = Interference-Causing Equipment Standard
- 15 VCCI = Voluntary Control Council for Information Technology Equipment
- 16 STP = shielded twisted-pair

