



Specifications

This appendix provides cable and technical specifications for Catalyst 4000 series switches.

Catalyst 4003 Switch Specifications

[Table A-1](#) lists the Catalyst 4003 switch specifications.

Table A-1 Catalyst 4003 Switch Specifications

Item	Specification
Environmental	
Temperature, ambient operating	32 to 104°F (0 to 40°C)
Temperature, ambient nonoperating and storage	–40 to 167°F (–40 to 75°C)
Humidity (RH), ambient (noncondensing), operating	10 to 90%
Humidity (RH), ambient (noncondensing), nonoperating and storage	5 to 95%
Altitude, operating and nonoperating	–200 to 6500 ft. (–60 to 2000 m)

Table A-1 Catalyst 4003 Switch Specifications (continued)

Item	Specification
Switching Components	
Backplane	12-Gbps full duplex
Microprocessor	Supervisor engine: 150-MHz R5000 RISC
Memory	
Supervisor engine	SDRAM: 32-MB on board, 32-MB DIMM (1Mx4x72, 168-pin, 100-MHz, nonregistered, 3.3 V), 16-MB Flash, 512-KB NVRAM
Physical Characteristics	
Dimensions (H x W x D)	10.50 x 17.25 x 11.81 in. (26.6 x 43.7 x 30 cm)
Weight	Minimum weight: 27.5 lb (12 kg) Maximum weight: 40 lb (18 kg)
400 W AC Power Supply	
Power supply output current	+12 V @ 33.3 A (maximum)
AC-input voltage	100 to 240 VAC
AC frequency	50 to 60 Hz
AC-input current	6.0 A maximum @ 100-VAC 60 Hz per power supply 3.0 A maximum @ 240-VAC 50 Hz per power supply
KVA rating	0.58 KVA
Heat dissipation	530 W maximum (1800 Btus per hour)
400 W DC Power Supply	
Power supply output current	+12 V @ 33.3 A (maximum) per power supply
DC-input voltage	-48 to -60 VDC per power supply
DC-input current	11 A per power supply
KVA rating	0.53 KVA
Heat dissipation	443.7 W maximum (1800 Btus per hour)
Input terminal block	The terminal block accepts 22-12 AWG copper conductors. The installer or local electrician must determine the actual size of the wire. The terminal block material is rated at 105°C.

Table A-1 Catalyst 4003 Switch Specifications (continued)

Item	Specification
650 W DC Power Supply	
Power supply output current	+12 V @ 55.09 A (maximum) per power supply
DC-input voltage	-48 to -60 VDC per power supply
DC-input current	18 A per power supply
KVA rating	0.866 KVA
Heat dissipation	866.66 W maximum (2957.91 Btus per hour)
Input terminal block	The terminal block accepts 22-12 AWG copper conductors. The installer or local electrician must determine the actual size of the wire. The terminal block material is rated at 95°C.
Airflow	
Switch	Right to left
Power supply	Front to back
Standards Compliance	
Compliance	CE ¹ Marking
Safety	UL ² 1950, CSA ³ -C22.2 No. 950, EN ⁴ 60950, and IEC ⁵ 950, TS001 ⁶ , AS/NZS ⁷ 3260
EMC⁸	FCC ⁹ Part 15, Class A (CFR ¹⁰ 47) (USA), ICES ¹¹ -003 Class A (Canada), EN55022 Class A (Europe), CISPR22 ¹² Class A (International), AS/NZS 3548 Class A (Australia), and VCCI ¹³ Class A (Japan) with UTP ¹⁴ EN55022 Class B (Europe), CISPR22 Class B (International), AS/NZS 3548 Class B, and VCCI Class B (Japan) with FTP ¹⁵ cables

1. CE = European Compliance
2. UL = Underwriters Laboratory
3. CSA = Canadian Standards Association
4. EN = European Norm
5. IEC = International Electrotechnical Commission

Catalyst 4006 Switch Specifications

6. TS = technical specifications
7. AS/NZS = Australia Standards/New Zealand Standards
8. EMC = electromagnetic compatibility
9. FCC = U.S. Federal Communications Commission
10. CFR = Code of Federal Regulations
11. ICES = Interference-Causing Equipment Standard
12. CISPR = Comite International Special des Perturbation Radioelectriques
13. VCCI = Voluntary Control Council for Information Technology Equipment
14. UTP = unshielded twisted-pair
15. FTP = foil twisted-pair

Catalyst 4006 Switch Specifications

Table A-2 lists the Catalyst 4006 switch specifications.

Table A-2 Catalyst 4006 Switch Specifications

Item	Specification
Environmental	
Temperature, ambient operating ambient nonoperating and storage	32 to 104°F (0 to 40°C) –40 to 167°F (–40 to 75°C)
Humidity (RH), ambient (noncondensing): operating nonoperating and storage	10 to 90% 5 to 95%
Altitude: operating nonoperating	–500 to 6,500 ft. (–150 to 2000 m) –1000 to 30,000 ft. (–300 to 9150 m)
Switching Components	
Backplane	32-Gbps full duplex
Microprocessor	Supervisor engine: 150-MHz R5000 RISC
Memory	
Supervisor engine	SDRAM: 64-MB DIMM (2Mx4x72, 168-pin, 100-MHz, nonregistered, 3.3 V), 16-MB Flash, 1-MB NVRAM

Table A-2 Catalyst 4006 Switch Specifications (continued)

Item	Specification
Physical Characteristics	
Dimensions (H x W x D)	15.75 x 17.25 x 11.81 in. (40 x 43.7 x 30 cm)
Weight	Minimum weight: 31 lb (14.0 kg) Maximum weight: 61 lb (27.7 kg)
400 W AC Power Supply	
Power supply output capacity	400 W maximum per power supply; 725 W maximum with two power supplies
Power supply output current	+12 V @ 33.3 A (maximum) per power supply
AC-input voltage	100 to 240 VAC
AC frequency	50 to 60 Hz
AC-input current	6.0 A maximum @ 100 VAC 60 Hz per power supply; 3.0 A maximum @ 240 VAC 50 Hz per power supply
KVA rating	0.58 KVA
Heat dissipation	725 W maximum (3090 Btus per hour)
400 W DC Power Supply	
Power supply output current	+12 V @ 33.3 A (maximum) per power supply
DC-input voltage	-48 to -60 VDC per power supply
DC-input current	11 A per power supply
KVA rating	0.53 KVA
Heat dissipation	530 W maximum (1800 Btus per hour)
Input terminal block	The terminal block accepts 22-12 AWG copper conductors. The installer or local electrician must determine the actual size of the wire. The terminal block material is rated at 105°C.
650W DC Power Supply	
Power supply output current	+12 V @ 55.09 A (maximum) per power supply
DC-input voltage	-48 to -60 VDC per power supply
DC-input current	18 A per power supply

Table A-2 Catalyst 4006 Switch Specifications (continued)

Item	Specification
KVA rating	0.866 KVA
Heat dissipation	866.66 W maximum (2957.91 Btus per hour)
Input terminal block	The terminal block accepts 22-12 AWG copper conductors. The installer or local electrician must determine the actual size of the wire. The terminal block material is rated at 95°C.
Airflow	
Switch	Right to left
Power supply	Front to back
Standards Compliance	
Compliance	CE ¹ Marking
Safety	UL ² 1950, CSA ³ -C22.2 No. 950, EN ⁴ 60950, and IEC ⁵ 950, TS001 ⁶ , AS/NZS ⁷ 3260
EMC⁸	FCC ⁹ Part 15, Class A (CFR ¹⁰ 47) (USA), ICES ¹¹ -003 Class A (Canada), EN55022 Class A (Europe), CISPR22 ¹² Class A (International), AS/NZS 3548 Class A (Australia), and VCCI ¹³ Class A (Japan) with UTP ¹⁴ EN55022 Class B (Europe), CISPR22 Class B (International), AS/NZS 3548 Class B, and VCCI Class B (Japan) with FTP ¹⁵ cables

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