



Technical Specifications

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Switch Specifications

Table 13 Environmental and Physical Specifications

Environmental Ranges	
Operating temperature ¹	-40C to +74C <ul style="list-style-type: none"> ■ -40C to +70C (Vented Enclosure Operating) ■ -40C to +60C (Sealed Enclosure Operating) ■ -34C to +74C (100LFM or more Fan or Blower equipped Enclosure Operating) ■ -40C to +85C (Type Tested to +85C for 16 hours) ²
Storage temperature	-40 to 185° F (-40 to 85° C)
Relative humidity	5 to 95% (noncondensing)
Operating altitude	Up to 10,000 ft (3049 m)
Storage altitude	Up to 15,000 ft (4570 m)
Thermal spacing	1.75 in. (4.4 cm)
Operating shock	30 g at 11 ms
Physical Specifications	
Weight	
Cisco IE-3010-24TC	9.1 lb (4.1 kg) (no power-supply module)
Cisco IE-3010-16S-8PC	10 lb (4.5 kg) (no power-supply module)
Dimensions (H x W x D)	
Cisco IE-3010-24TC	1.75 x 17.5 x 14.0 in. (4.45 x 44.5 x 35.6 cm)
Cisco IE-3010-16S-8PC	1.75 x 17.5 x 14.0 in. (4.45 x 44.5 x 35.6 cm)

1. Operating temperatures exceeding 60C are not covered by the product safety certifications and approvals. However, the switch can function in the installations under the environmental conditions listed.
2. The maximum operating temperature of the switch varies depending on the type of SFP module that you use.

Table 14 Technical Specifications for the Cisco IE 3010-16S-8PC Switch

Power Requirements	
Nominal input voltage	PWR-RGD-AC-DC/IA: 100 to 240 VAC, 50 to 60 Hz 100 to 250 VDC PWR-RGD-LOW-DC/IA: 24 to 60 VDC
Absolute maximum (short term) input voltage	PWR-RGD-AC-DC/IA: 85 to 265 VAC, 47 to 63 Hz 88 to 300 VDC PWR-RGD-LOW-DC/IA: 18 to 75 VDC
Power consumption with one PWR-RGD-AC-DC/IA power-supply module	AC: 147 BTUs per hour 43.2 W Power rating: 0.044 KVA@115 V
	DC: 137 BTUs per hour 40.3 W Power rating: 0.0403 KVA@125 VDC
Power consumption with one PWR-RGD-AC-DC/IA power-supply module (with PoE on 4 ports)	AC: 376 BTUs per hour 110.1 W Power rating 0.11 KVA@115 V
	DC: 375 BTUs per hour 109.8 W Power rating: 0.109 KVA@125 VDC
Power consumption with two PWR-RGD-AC-DC/IA power-supply modules	AC: 166 BTUs per hour 48.8 W Power rating: 0.051 KVA@115 V
	DC: 167 BTUs per hour 48.9 W Power rating: 0.0489 KVA@125 VDC

Table 14 Technical Specifications for the Cisco IE 3010-16S-8PC Switch (continued)

Power consumption with two PWR-RGD-AC-DC/IA power-supply modules (with PoE on 8 ports)	AC: 628 BTUs per hour 184.1 W Power rating: 0.185 KVA@115 V
	DC: 622 BTUs per hour 182.2 W Power rating: 0.182 KVA@125 VDC
Power consumption with one PWR-RGD-LOW-DC/IA power-supply module	DC: 116 BTUs per hour 34.2 W Power rating: 0.034 KVA@24 VDC
Power consumption with one PWR-RGD-LOW-DC/IA power-supply module (with PoE on 4 ports)	DC: 363 BTUs per hour 106 W Power rating: 0.106 KVA@24 VDC
Power consumption with two PWR-RGD-LOW-DC/IA power-supply modules	DC: 127 BTUs per hour 37.1 W Power rating: 0.037 KVA@24 VDC
Power consumption with two PWR-RGD-LOW-DC/IA power-supply modules (with PoE on 8 ports)	DC: 622 BTUs per hour 181.9 W Power rating: 0.182 KVA@24 VDC

Table 15 Technical Specifications for the Cisco IE-3010-24TC Switch

Power Requirements	
Nominal input voltage	PWR-RGD-AC-DC/IA: 100 to 240 VAC, 50 to 60 Hz 100 to 250 VDC PWR-RGD-LOW-DC/IA: 24 to 60 VDC
Absolute maximum (short term) input voltage	PWR-RGD-AC-DC/IA: 85 to 265 VAC, 47 to 63 Hz 88 to 300 VDC PWR-RGD-LOW-DC/IA: 18 to 75 VDC

Table 15 Technical Specifications for the Cisco IE-3010-24TC Switch (continued)

Power consumption with one PWR-RGD-AC-DC/IA power-supply module	AC: 102 BTUs per hour 29.8 W Power rating: 0.031 KVA@115 V
	DC: 98 BTUs per hour 28.6 W Power rating: 0.0286 KVA@125 VDC
Power consumption with two PWR-RGD-AC-DC/IA power-supply modules	AC: 121 BTUs per hour 35.5 W Power rating: 0.0367 KVA@115 V
	DC: 117 BTUs per hour 34.4 W Power rating: 0.0344 KVA@ 125 VDC
Power consumption with one PWR-RGD-LOW-DC/IA power-supply module	DC: 92 BTUs per hour 26.8 W Power rating: 0.027 KVA@ 24 VDC
Power consumption with two PWR-RGD-LOW-DC/IA power-supply modules	DC: 105 BTUs per hour 30.7 W Power rating: 0.030 KVA@ 24 VDC

Power-Supply Module Specifications

Table 16 Environmental and Physical Specifications for the AC- and DC-Power-Supply Modules

Environmental Ranges	
Operating temperature	-40 to 140°F (-40 to 60°C)
Storage temperature	-49 to 185°F (-45 to 85°C)
Relative humidity	5 to 95% (noncondensing)
Altitude	Up to 10,000 ft (3049 m)
Physical Specifications	
Weight	
PWR-RGD-AC-DC/IA	2.55 lb (1.15 kg)
PWR-RGD-LOW-DC/IA	2.5 lb (1.13 kg)
Dimensions (H x W x D)	
PWR-RGD-AC-DC/IA	1.58 x 7 x 5 in. (4 x 17.8 x 12.7 cm) (without mounting flanges)
PWR-RGD-LOW-DC/IA	1.58 x 8.15 x 5 in. (4 x 20.7 x 12.7 cm) (with mounting flanges)

Alarm Ratings

Table 17 Technical Specifications for the PWR-RGD-AC-DC/IA Power-Supply Module

Power Specifications	
Maximum output power	150 W
Nominal input voltage	100 to 240 VAC, 50 to 60 Hz 100 to 250 VDC
Absolute maximum (short term) input voltage	85 to 265 VAC, 47 to 63 Hz 88 to 300 VDC
Input current	AC: 2.2 to 0.7 A, 85 to 265 VAC DC: 2.5 to 0.6 A, 88 to 300 VDC
Total input BTU	AC: 638 BTUs per hour DC: 750 BTUs per hour

Table 18 Technical Specifications for the PWR-RGD-LOW-DC/IA Power-Supply Module

Power Specifications	
Maximum output power	150 W
Nominal input voltage	24 to 60 VDC
Absolute maximum (short term) input voltage	18 to 75 VDC
Input current	12 to 2.5 A, 18 to 75 VDC
Total input BTU	737 BTUs per hour

Alarm Ratings

Table 19 Alarm Input and Output Ratings

Alarm Ratings	
Alarm input electrical specification	8 V @ 1mA
Alarm output electrical specification	30 V @ 1A Note: The alarm output does not support AC voltage because the RJ-45 connector pin spacing is too small.

