



## Technical Specifications

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## Switch Specifications

**Table 1: Cisco IE 4010 Switch Specifications**

Environmental Ranges	
Operating temperature	-40°C to +74°C
<b>Note</b> Operating temperatures exceeding 60°C are not covered by the product safety certifications and approvals. However, the switch can function in the installations under the environmental conditions listed.	<ul style="list-style-type: none"> <li>• -40°C to +75°C (Vented Enclosure Operating- 40 LFM Air Flow)</li> <li>• -40°C to +60°C (Sealed Enclosure Operating- 0 LFM Air Flow)</li> <li>• -34°C to +75°C (Fan or Blower equipped Enclosure Operating- 200 LFM Air Flow)</li> <li>• -40°C to +85°C (IEC 60068-2-2 Environmental Type Tested to +85°C for 16 hours)</li> </ul>
	<b>Note</b> The maximum operating temperature of the switch varies depending on the type of SFP module that you use.
Storage temperature	-40 to 185°F (-40 to 85°C)
Relative humidity	5 to 95% (noncondensing)
Operating altitude	Up to 13,800 ft (3049 m)
Storage altitude	Up to 15,000 ft (4570 m)
Thermal spacing	1.75 in. (4.4 cm)
Operational shock	50G at 11ms, half sine and 200G at 2.11ms, half sine.

Environmental Ranges	
Non-Operational Shock	65-80G at 9ms, Trapezoidal
Physical Specifications	
Weight	Without power supply: IE-4010-4S24P: 12.1 lbs (5.46 kg), IE-4010-16S12P: 12.7 lbs (5.78 kg)  <ul style="list-style-type: none"> <li>• PWR-RGD-AC-DC-H: 2.55 lb (1.16 kg)</li> <li>• PWR-RGD-LOW-DC-H: 2.5 lb (1.13 kg)</li> </ul>
Dimensions (H x W x D)	1.75 x 17.5 x 15.0 in. (4.45 x 44.5 x 38.1 cm)

**Table 2: Cisco IE 4010 Switch Power Requirements**

Nominal input voltage	PWR-RGD-AC-DC-H: 100 to 240 VAC, 50 to 60 Hz 100 to 250 VDC PWR-RGD-LOW-DC-H: 24 to 60 VDC
Absolute maximum (short term) input voltage	PWR-RGD-AC-DC-H: 85 to 265 VAC, 47 to 63 Hz 88 to 300 VDC PWR-RGD-LOW-DC-H: 18 to 75 VDC
Maximum PoE power available to Powered Devices (PD), with one power supply module installed	80W
Maximum PoE power available to Powered Devices (PD), with two power supply modules installed	200W

**Table 3: Table 15 Cisco IE 4010 Switch Power Consumption**

		Max Power at 60C			
FRU Configuration	FRU Mode	IE-4010-4S24P		IE-4010-16S12P	
		Watts	BTU/hr	Watts	BTU/hr
With 2 power supplies (150W or 250W), PoE not enabled.	Redundant	65	222	70	239

		Max Power at 60C			
FRU Configuration	FRU Mode	IE-4010-4S24P		IE-4010-16S12P	
		Watts	BTU/hr	Watts	BTU/hr
With 1 power supply (150W or 250W), PoE not enabled.	-NA-	61	208	65	222
With 2 150W power supplies, PoE enabled	Load Shared	112	382	117	399
With 2 250W power supplies, PoE enabled	Load Shared	157	535	156	532
With 2 power supplies(150W and 250W), PoE enabled	Load Shared	133	454	138	471

## Power-Supply Module Specifications

*Table 4: Power Supply Module Physical Specifications*

Weight PWR-RGD-AC-DC-H PWR-RGD-LOW-DC-H	2.55 lb (1.15 kg) 2.5 lb (1.13 kg)
Dimensions (H x W x D) PWR-RGD-AC-DC-H and PWR-RGD-LOW-DC-H	1.58 x 7 x 5 in. (4 x 17.8 x 12.7 cm) (without mounting flanges) 1.58 x 8.15 x 5 in. (4 x 20.7 x 12.7 cm) (with mounting flanges)

## Alarm Ratings

*Table 5: Alarm Input and Output Ratings*

Alarm input electrical specification	No external voltage needed to activate alarm inputs. The open circuit voltage between any Alarm input (1 to 4) and Alarm input Common is 5VDC and the loop current is 2 mA max per input.
Alarm output electrical specification	30VDC @ 1A, 48VDC @ 0.5A

