



Technical Specifications

- [Switch Specifications, on page 1](#)
- [Power-Supply Module Specifications, on page 3](#)
- [Alarm Ratings, on page 5](#)

Switch Specifications

This section contains physical and environmental information about the switch.

Table 1: Physical Specifications

Switch	Weight	Dimensions (H x W x D)
IE9310 Mixed-Port (IE-9310-16P8S4X)	10.6 lb (4.81 kg)	• 1.72 x 17.5 x 14.0 in. with PWR-RGD-AC-DC-H / PWR-RGD-LOW-DC-H • 1.72 x 17.5 x 15.18 in. with PWR-RGD-AC-DC-250 • 1.72 x 17.5 x 15.57 in. with PWR-RGD-AC-DC-400
IE9310 GE Fiber	12.2 lbs (5.53 kg) Note Weight is without power supply and blank filler.	• 1.72 x 17.5 x 14.0 in. (4.36 x 44.45 x 35.56 cm) with PWR-RGDAC-DC-H / PWR-RGD-LOW-DC-H • 1.72 x 17.5 x 15.18 in. (4.36 x 44.45 x 38.55 cm) with PWR-RGDAC-DC-250

Switch	Weight	Dimensions (H x W x D)
IE9320 GE Fiber	12.2 lbs (5.53 kg) Note Weight is without power supply and blank filler.	• 1.72 x 17.5 x 14.0 in. (4.36 x 44.45 x 35.56 cm) with PWR-RGDAC-DC-H / PWR-RGD-LOW-DC-H • 1.72 x 17.5 x 15.18 in. (4.36 x 44.45 x 38.55 cm) with PWR-RGDAC-DC-250
IE9320 10GE Copper Data (IE-9320-24T4X)	9.5 lb (4.3 kg) Note Weight is without power supply and blank filler.	1.72 x 17.5 x 14.0 in. (4.36 x 44.45 x 35.56 cm) with PWR-RGD-AC-DC-H / PWR-RGD-LOW-DC-H
IE9320 10GE PoE (IE-9320-24P4X)	9.7 lb (4.4 kg) Note Weight is without power supply and blank filler.	1.72 x 17.5 x 14.0 in. (4.36 x 44.45 x 35.56 cm) with PWR-RGD-AC-DC-H / PWR-RGD-LOW-DC-H
IE9320 10G mGig 4PPoE (IE-9320-16P8U4X)	9.9 lb (4.5 kg) Note Weight is without power supply and blank filler.	• 1.72 x 17.5 x 14.0 in. (4.36 x 44.45 x 35.56 cm) with PWR-RGD-AC-DC-H / PWR-RGD-LOW-DC-H • 1.72 x 17.5 x 15.18 in. (4.36 x 44.45 x 38.55 cm) with PWR-RGD-AC-DC-250 • 1.72 x 17.5 x 15.57 in. (4.36 x 44.45 x 39.55 cm) with PWR-RGD-AC-DC-400
IE9320 GE PoE (IE-9320-24P4S)	9.7 lb (4.4 kg) Note Weight is without power supply and blank filler.	• 1.72 x 17.5 x 14.0 in. (4.36 x 44.45 x 35.56 cm) with PWR-RGD-AC-DC-H / PWR-RGD-LOW-DC-H • 1.72 x 17.5 x 15.18 in. (4.36 x 44.45 x 38.55 cm) with PWR-RGD-AC-DC-250 • 1.72 x 17.5 x 15.57 in. (4.36 x 44.45 x 39.55 cm) with PWR-RGD-AC-DC-400

Table 2: Environmental Ranges

Measure	Range
Operating temperature	• –40° C to +75° C (blower equipped cabinet) • –40° C to +70° C (vented cabinet) • –40° C to +60° C (sealed cabinet)
Storage temperature	–40°C to +85°C
Relative humidity	5 percent to 95 percent noncondensing
Operating altitude	• Up to 15,000 feet (4572 m) with no temperature derating • Up to 40,000 feet (12,192 m) with temperature derating down to 25° C
Storage altitude	Up to 40,000 feet (12,192 m)
Thermal spacing	1.75 in (4.4 cm) clearance top, sides, and bottom
Operational shock	50G at 11ms, half sine and 200G at 2.11ms, half sine
Nonoperational shock	65 to 80G at 9ms, trapezoidal

Power-Supply Module Specifications

PSU Module	Weight	Dimensions
PWR-RGD-AC-DC-H	2.55 lb (1.15 kg)	1.58 x 7 x 5 in. (4 x 17.8 x 12.7 cm) (without mounting flanges)
PWR-RGD-LOW-DC-H	2.5 lb (1.13 kg)	
PWR-RGD-LOW-DC-250	3.2 lb (1.45 kg)	1.58 x 7 x 6.18 in. (4 x 17.8 x 15.7 cm) (without mounting flanges)
PWR-RGD-AC-DC-400	3.55 lb (1.61 kg)	1.58 x 7 x 6.58 in. (4 x 17.8 x 16.7 cm) (without mounting flanges)
Blank cover	.8 lbs	N/A



Note The safety certifications apply only to ambient temperatures under 140 F (60 C).

Table 3: Switch Power Requirements

Measure	Requirement
Nominal input voltage	• PWR-RGD-AC-DC-H: 3.5 A @100 VAC, 50 to 60 Hz • PWR-RGD-AC-DC-250: 4.0 A @ 100 VAC, 50 to 60 Hz • PWR-RGD-LOW-DC-H: 8 A @ 24 VDC • PWR-RGD-AC-DC-400: 6.0 A @ 100 VAC, 50 to 60Hz



Note Ensure that HV and LV power supplies are not used together.

The 400W power supplies are required to support 4PPoE Type 4 (PoE Class 7 and 8). Any of the supported power supplies can be used for PoE+ and 4PPoE Type 3 (PoE Class 1 through 6).

Table 4: Cisco IE9300 Rugged Series PoE and PoE+ Power Budget

PID	Available PoE Power						
	One 150 W PSU	Two 150 W PSUs	One 250 W PSU	One 150 W PSU + one 250W PSU	Two 250 W PSUs	400 W	Two 400 W PSUs
IE-9310-16P8S4X	50 W	170 W	150 W	260 W	350 W	300 W	480 W
IE-9320-24P4S	70W	190W	170W	280W	370W	320W	385W
IE-9320-24P4X-E	70W	190W	170W	280W	370W	320W	720W
IE-9320-16P8U4X	70W	190W	170W	280W	370W	320W	720W



Note 150W and 250W power supplies cannot be used with the 400W power supply in a load-sharing configuration.

Alarm Ratings

Specification	Description
Alarm input electrical specification	Senses an external dry contact. The open circuit voltage between any alarm input (1 to 4) and alarm input common is 3.3 VDC. The loop current is 3 mA max per input. Do not apply external power to the alarm input.
Alarm output electrical specification	30 VDC @ 1 A, or 60 VDC @ 0.5 A, LPS or PS2, resistive load only.

**Caution**

To reduce risk of electric shock and fire, the alarm ports must be connected to an IEC 60950/IEC 62368-compliant limited power source (LPS).

