



Technical Specifications

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Environmental Specifications

This table describes the environmental specifications.

Table 1: Environmental Specifications for All Catalyst 2960-X Switches

Environmental Ranges	
Operating temperature 1	23 to 113°F (–5 to 45°C) up to 5,000 ft (1500 m) 23 to 104°F (–5 to 40°C) up to 10,000 ft (3000 m)
Storage temperature	–40 to 158°F (–40 to 70°C) up to 15,000 ft (4500 m)
Relative humidity	10 to 95% (noncondensing)
Storage altitude	Up to 15,000 ft (4500 m)

¹ Minimum ambient temperature for cold start is 32°F (0°C)

Specifications for the Catalyst 2960-X Switches

Table 2: Catalyst 2960X-48FPD-L, 2960X-48LPD-L, 2960X-24PD-L, 2960X-48FPS-L, 2960X-48LPS-L, and 2960X-24PS-L Switch Specifications

Power Requirements

AC input voltage	<p>100 to 240 VAC (autoranging)</p> <ul style="list-style-type: none"> • 9 to 4 A, 50 to 60 Hz (Catalyst 2960X-48FPD-L) • 5 to 2 A, 50 to 60 Hz (Catalyst 2960X-48LPD-L) • 5 to 2 A, 50 to 60 Hz (Catalyst 2960X-24PD-L) • 9 to 4 A, 50 to 60 Hz (Catalyst 2960X-48FPS-L) • 5 to 2 A, 50 to 60 Hz (Catalyst 2960X-48LPS-L) • 5 to 2 A, 50 to 60 Hz (Catalyst 2960X-24PS-L)
DC input voltage for RPS 2300	<ul style="list-style-type: none"> • +12 V @ 4 A, -53 V @ 15 A (Catalyst 2960X-48FPD-L) • +12 V @ 4 A, -53 V @ 8 A (Catalyst 2960X-48LPD-L) • +12 V @ 3A, -53 V @ 8 A (Catalyst 2960X-24PD-L) • 12 V @ 4 A, -53 V @ 15 A (Catalyst 2960X-48FPS-L) • +12 V @ 4 A, -53 V @ 8 A (Catalyst 2960X-48LPS-L) • +12 V @ 3 A, -53 V @ 8 A (Catalyst 2960X-24PS-L)
Power consumption ²	<ul style="list-style-type: none"> • 149 W, 508 BTUs per hour (Catalyst 2960X-48FPD-L) • 103 W, 351 BTUs per hour (Catalyst 2960X-48LPD-L) • 92 W, 313 BTUs per hour (Catalyst 2960X-24PD-L) • 149 W, 508 BTUs per hour (Catalyst 2960X-48FPS-L) • 102 W, 348 BTUs per hour (Catalyst 2960X-48LPS-L) • 90 W, 307 BTUs per hour (Catalyst 2960X-24PS-L)
Power rating ³	<ul style="list-style-type: none"> • 0.89 KVA (Catalyst 2960X-48FPD-L) • 0.48 KVA (Catalyst 2960X-48LPD-L) • 0.47 KVA (Catalyst 2960X-24PD-L) • 0.89 KVA (Catalyst 2960X-48FPS-L) • 0.49 KVA (Catalyst 2960X-48LPS-L) • 0.49 KVA (Catalyst 2960X-24PS-L)
PoE+	

<ul style="list-style-type: none"> • 30 W-per-port maximum, 740-W switch maximum (Catalyst 2960X-48FPD-L and 2960X-48FPS-L switches) • 15.4 W-per-port maximum, 370-W switch maximum (Catalyst 2960X-48LPD-L, 2960X-24PD-L, 2960X-48LPS-L, and 2960X-24PS-L switches) 	
Physical Dimensions	
Weight	<ul style="list-style-type: none"> • 12.9 lb (5.8 kg) (Catalyst 2960X-48FPD-L) • 12.8 lb (5.8 kg) (Catalyst 2960X-48LPD-L) • 12.7 lb (5.8 kg) (Catalyst 2960X-24PD-L) • 13.2 (6.0 kg) (Catalyst 2960X-48FPS-L) • 12.9 lb (5.8 kg) (Catalyst 2960X-48LPS-L) • 12.8 lb (5.8 kg) (Catalyst 2960X-24PS-L)
Dimensions (H x D x W)	1.75 x 14.50 x 17.5 in. (4.45 x 36.83 x 44.5 cm). Applies to all PoE switches.

² Power consumption values for the power consumed internally by the switch at 120 VAC 60 Hz.

³ Power rating values for the switch input power.

Table 3: Catalyst 2960X-48TD-L, 2960X-24TD-L, 2960X-48TS-L, 2960X-24TS-L, 2960X-48TS-LL, 2960X-F24TS-LL, Switch Specifications

Power Requirements	
AC input voltage	<p>100 to 240 VAC (autoranging)</p> <ul style="list-style-type: none"> • 1 to 0.5 A, 50 to 60 Hz (Catalyst 2960X-48TD-L) • 1 to 0.5 A, 50 to 60 Hz (Catalyst 2960X-24TD-L) • 1 to 0.5, 50 to 60 Hz (Catalyst 2960X-48TS-L) • 1 to 0.5 A, 50 to 60 Hz (Catalyst 2960X-24TS-L) • 1 to 0.5 A, 50 to 60 Hz (Catalyst 2960X-48TS-LL) • 1 to 0.5 A,, 50 to 60 Hz (Catalyst 2960X-24TS-LL)
DC input voltage for RPS 2300	<ul style="list-style-type: none"> • +12 V @ 4 A, -53 V @ 8 A (Catalyst 2960X-48TD-L) • +12 V @ 3 A, (Catalyst 2960X-24TD-L) • +12 V @ 5 A, (Catalyst 2960X-48TS-L) • +12 V @ 4 A, (Catalyst 2960X-24TS-L)

<p>Power consumption ⁴</p>	<ul style="list-style-type: none"> • 47 W, 161 BTUs per hour (Catalyst 2960X-48TD-L) • 32 W, 110 BTUs per hour (Catalyst 2960X-24TD-L) • 49 W, 168 BTUs per hour (Catalyst 2960X-48TS-L) • 37 W, 126 BTUs per hour (Catalyst 2960X-24TS-L) • 55 W, 187 BTUs per hour (Catalyst 2960X-48TS-LL) • 37 W, 126 BTUs per hour (Catalyst 2960X-24TS-LL)
<p>Power rating ⁵</p>	<ul style="list-style-type: none"> • 0.049 KVA (Catalyst 2960X-48TD-L) • 0.034 KVA (Catalyst 2960X-24TD-L) • 0.051 KVA (Catalyst 2960X-48TS-L) • 0.039 KVA (Catalyst 2960X-24TS-L) • 0.46 KVA (Catalyst 2960X-48TS-LL) • 0.035 KVA (Catalyst 2960X-24TS-LL)
<p>Physical Dimensions</p>	
<p>Weight Dimensions (H x D x W)</p>	<p>9.6 lb (4.3 kg) Catalyst 2960X-48TD-L 8.9 lb (4.0 kg) Catalyst 2960X-24TD-L 9.4 lb (4.2 kg) Catalyst 2960X-48TS-L 8.9 lb (4.0 kg) Catalyst 2960X-24TS-L 8.9 lb (4.0 kg) Catalyst 2960X-48TS-LL 8.2 lb (3.7 kg) Catalyst 2960X-24TS-LL</p>
<p>1.75 x 11 x 17.50 in. (4.45 x 27.94 x 44.5 cm) All non-PoE switches.</p>	

⁴ Power consumption values for the power consumed internally by the switch at 120 VAC 60 Hz.

⁵ Power rating values for the switch input power.