



System Specifications

This appendix contains tables that list the specifications for the main components of the Cisco NCS 6000 Fabric Card Chassis (FCC).

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Fabric Card Chassis Specifications

Table 1: Cisco NCS 6000 FCC Chassis Specifications

Supported Cards and Modules	Up to 12 S2 fabric cards (FCs), two SC or SC-SW shelf controller cards, and two fan trays.
Fabric Chassis Dimensions	
Height	76.60 in. (205.7 cm) as shipped 84.0 in. (213.4 cm) as installed with the power shelf
Width	23.6 in. (59.9 cm) 35.3 in. (89.7 cm) as installed with optional AC PDU brackets on each side of the FCC
Depth	39.0 in. (99.1 cm) without exterior cosmetics 42.0 in. (106.7 cm) with all exterior cosmetics
Aisle spacing	To install the FCC (front): 48 in. (122 cm) To service FRUs (front): 31.7 in. (80.5 cm) To service FRUs (rear): 14.0 in. (35.6 cm)

Weights	
FCC as shipped	708 lb (321 kg)
FCC in shipping crate with pallet	925 lb (420 kg)
FCC, fully loaded with power enclosure, cards, and cosmetics	1130 lb (513 kg)
Floor Loading	
FCC in rack footprint(floor contact area)	FCC: 6.9 sq ft (0.64 sq m)
Maximum floor loading	164 lb/sq ft
Fabric Chassis Cooling	
FCC airflow	Up to 1980 cubic feet (56,6000 liters) per minute
DC power system airflow	Up to 120 cubic feet (3400 liters) per minute
AC power system airflow	Up to 88 cubic feet (2500 liters) per minute

Power Specifications

Table 2: Cisco NCS 6000 FCC Power Specifications

Power Enclosure Components	
Power Trays	Either four AC or four DC power trays. AC and DC power trays cannot be mixed.
Power modules (PMs)	The AC power tray has three slots for AC PMs. The DC power tray has four slots for DC PMs.
Power control modules (PCMs)	Two PCMs are preinstalled in the power enclosure (one per each set of power trays).
Power Redundancy (N+N)	<p>AC: Up to 12 power modules can be installed, and only 6 are needed to be active at any time. This allows support for 6+6 power redundancy by using two independent AC power sources (6 feeds each).</p> <p>DC: Up to 16 power modules can be installed, and only 8 are needed to be active at any time. This allows support for 8+8 power redundancy through "A" and "B" battery plant feeds.</p>
DC Input	
Nominal input voltage	-48 VDC or -60 VDC (tolerance range: -40 to -72 VDC)

Power Enclosure Components	
Input current	50 A max at -48 VDC 40 A max at -60 VDC 60 A at -40 VDC (maximum)
AC Input	Single-phase
Nominal input voltage	200 to 240 VAC (range 180 to 264 VAC)
Nominal line frequency	50/60 Hz (range 47 to 63 Hz)
Recommended AC service	20-A (North America) dedicated branch circuit 16-A (International) dedicated branch circuit
AC Power Cord Length	167 in. (4.25 m)

Environmental Specifications

Table 3: Cisco NCS 6000 FCC Environmental Specifications

Temperature	Operating, nominal: 41 to 104°F (5° to 40°C) Operating, short-term: 23 to 122°F (-5° to 50°C) ¹ Nonoperating: -40 to 158°F (-40° to 70°C)
Humidity	Operating, nominal: 5 to 85%, noncondensing Operating, short-term: 5 to 90%, noncondensing Nonoperating: 5 to 93%, noncondensing
Altitude	Operating: -200 to 13,800 ft (-61 to 4206 m) at 104°F (40°C) Nonoperating: Up to 16,000 ft (4877 m) at -13°F (-25°C), short-term
FCC airflow	2000 CFM (Cubic Feet per Minute) Up to 56,600 liters per minute
Power system airflow	Up to 3400 liters per minute
Air exhaust temperature	122°F (50°C)—at room temperatures of 95 to 102°F (35 to 39°C) 140°F (60°C)—maximum exhaust temperature on a fully loaded system during worst-case operating conditions (50°C and 6000 ft altitude)

Air velocity (at exhaust)	1000 ft/min (5.1m/s) under typical conditions 27°C 2250 ft/min(11.4m/s) at maximum speed Note Software controls the speed of the fans based on measurements from the fabric chassis thermal sensors.
Sound power level(AC and DC power)	76.6 dBA declared
Shock and vibration	Designed and tested to meet the NEBS shock and vibration standards defined in GR-63 Issue 4 2012.

¹ Short-term refers to a period of not more than 96 consecutive hours and a total of not more than 15 days in 1 year. This refers to a total of 360 hours in any given year, but no more than 15 occurrences during that 1-year period.

Regulatory, Compliance, and Safety Specifications

For information about the regulatory, compliance, and safety standards to which the Cisco NCS 6000 Fabric Card Chassis conforms, see: [Regulatory Compliance and Safety Information for the Cisco Network Convergence System 6000 Series Routers](#).