

System Specification

This chapter describes the system specifications for Cisco NCS 5700 router.

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Weight and Power Consumption

For information on physical specifications and power consumption, refer to the following data sheets:

- NCS-57B1 Fixed Chassis Data Sheet
- NCS-57C3 Fixed Chassis Data Sheet
- NCS-57C1 Fixed Chassis Data Sheet
- NCS-D2 Fixed Chassis Data Sheet

Environmental Specifications

For information on environmental specifications, see table *Environmental properties* in the following data sheets:

- NCS-57B1 Fixed Chassis Data Sheet
- NCS-57C3 Fixed Chassis Data Sheet
- NCS-57C1 Fixed Chassis Data Sheet
- NCS-D2 Fixed Chassis Data Sheet

Thermal Limitations

The optics listed below have different temperature specifications, as described below:

Table 1: Thermal Limitations

Optical Module	Platform	Ports Supported	Supported Temperature
QSFP-100G-ZR4-S	NCS-57C3-MODS-S, NCS-57C3-MOD-HX fixed ports, with NC57-MPA-2D4H-S, NC57-MPA-2D4H-H-S and NC55-MPA-4H-S	• MPA1 - 4 Ports • MPA2 - 4 Ports • MPA3 - 4 Ports **Note** Not supported on fixed ports of NCS-57C3-MOD-S/NCS-57C3-MOD-HX.	50°C
	NCS-57C3-MODS-S fixed ports, with NC57-MPA-2D4H-S, NC57-MPA-2D4H-H-S and NC55-MPA-4H-S	• MPA1 - 4 Ports • MPA2 - 4 Ports • MPA3 - 4 Ports **Note** Not supported on fixed ports of NCS-57C3-MODS-S.	50°C
	NCS-5501-SE	4 Fixed ports	50°C
CFP2-DCO Coherent Optical Module	NCS-57C3 fixed ports, with NC55-MPA-2TH-S and NC55-MPA-1T2H-S	• MPA1 - 2 Ports • MPA2 - 2 Ports • MPA3 - 2 Ports	45°C
400G Digital Coherent QSFP-DD Optical Module	NCS-57C3 fixed ports, with NC57-MPA-2D4H-S and NC57-MPA-2D4H-H-S	• MPA1 - 1 Ports • MPA2 - 2 Ports • MPA3 - 2 Ports	40°C

RJ-45 Connectors

The RJ-45 connector connects Category 3, Category 5, Category 5e, Category 6, or Category 6A foil twisted-pair or unshielded twisted-pair cable from the external network to the following module interface connectors:

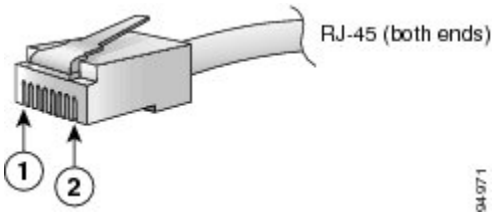
- Router chassis
  - CONSOLE port

- MGMT ETH port

Caution To comply with GR-1089 intrabuilding, lightning immunity requirements, you must use a foil twisted-pair (FTP) cable that is properly grounded at both ends.

The following figure shows the RJ-45 connector.

Figure 1: RJ-45 Connector



1	Pin 1	2	Pin 2

Management Pinouts

The following table summarizes the Management Ethernet port pinouts.

Table 2: Management Ethernet Port Pinouts

Pin	Signal Name
1	TRP0+
2	TRP0-
3	TRP1+
4	TRP1-
5	TRP2+
6	TRP2-
7	TRP3+
8	TRP3-

Time-of-Day Port Pinouts

The following table summarizes the ToD/1-PPS port pinouts.

Table 3: RJ-45 ToD/1-PPS Port Pinouts

Pin	Signal Name	Direction	Description
1	–	–	–
2	–	–	–
3	1PPS_N	Output or Input	1PPS RS422 signal
4	GND	–	–
5	GND	–	–
6	1PPS_P	Output or Input	1PPS RS422 signal
7	TOD_N	Output or Input	Time-of-Day character
8	TOD_P	Output or Input	Time-of-Day character

USB Flash or MEM Port Pinouts

The following table summarizes the USB flash or MEM port pinouts.

Table 4: USB Flash or MEM Port Pinouts

Pin	Signal Name	Description
A1	Vcc	+5 VDC
A2	D-	Data -
A3	D+	Data +
A4	Gnd	Ground

Console Port Pinouts

The following table summarizes the Console port pinouts.

Table 5: Console Port Pinouts

Pin	Signal Name	Direction	Description
1	Loop1	NA	Loopback 1
2	Loop2	NA	Loopback 2
3	TxD	Output	Console RS232 transmit
4	Gnd	NA	Ground

Pin	Signal Name	Direction	Description
5	Gnd	NA	Ground
6	RxD	Input	Console RS232 receive
7	Loop2	NA	Loopback 2
8	Loop1	NA	Loopback 1

Power Supply Power Cord Specifications

For more information on the supported power cables, see *Ordering information for power cables supported on NCS 5700* on the Cisco Network Convergence System 5700 Router Data Sheet.