System Specification

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

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-MOD-S fixed ports, with NC57-MPA-2D4H-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.	50℃
	NCS-57C3-MODS-S fixed ports, with NC57-MPA-2D4H-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℃
	NCS-5501-SE	4 Fixed ports	50℃
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℃
400G Digital Coherent QSFP-DD Optical Module	NCS-57C3 fixed ports, with NC57-MPA-2D4H-S	• MPA1 - 1 Ports • MPA2 - 2 Ports • MPA3 - 2 Ports	40℃

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:
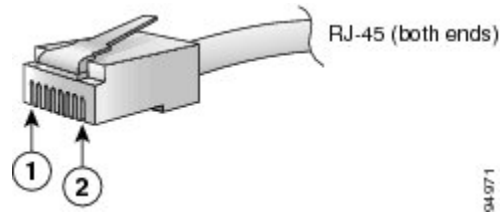
• Router chassis

- 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.