

# Cabling Specifications

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This appendix lists the pinouts for ports on the supervisor engine and other modules and for some of the interface cables that connect modules to the external network. All pins not specifically listed are not connected.

The following is a list of the signal summaries contained in this appendix:

- Supervisor Engine Module DB-25 Console Port Signals
- Supervisor Engine Module 40-Pin MII Fast Ethernet Connector Signals
- Supervisor Engine Module 100BaseTX MDI X Port Signals
- Fast Ethernet Switching Module 100BaseT RJ-45 Port Signals

## Console Port Signals

The console port on the supervisor engine module is an EIA/TIA-232, data communications equipment (DCE), DB-25 receptacle. Both data set ready (DSR) and data carrier detect (DCD) are active when the system is running. The Request To Send (RTS) signal tracks the state of the Clear To Send (CTS) input. The console port does not support modem control or hardware flow control. Table C-1 lists the signals used on this port.

## Fast Ethernet Connector Signals

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**Table C-1 Supervisor Engine Module DB-25 Console Port Signals**

Pin	Signal	Direction	Description
1	GND		Ground
2	RxD-	—>	Receive data –
3	TxD+	<—	Transmit Data +
4	CTS	<—	Clear to send
5	RTS	—>	Return to send
7	GND		Ground
8	DTR	—>	Data terminal ready
11	+5V		+ 5 Volts
18	GND		Ground
20	DCD	<—	Data carrier detect

## Fast Ethernet Connector Signals

Most Ethernet transceivers require a transceiver cable to connect an Ethernet transceiver to the supervisor engine module and Ethernet switching module Ethernet ports. Some unshielded twisted-pair (10BaseT) transceivers are compact enough to connect directly to the Ethernet module ports without impeding other connections. For descriptions of Ethernet transceivers, connectors, and cables, refer to the section “Ethernet Connection Equipment” in the chapter “Installation Overview.”

Table C-2 lists the signals for the supervisor engine module 40-pin MII Fast Ethernet connector cable.

**Table C-2 Supervisor Engine Module 40-Pin MII Fast Ethernet Connector Signals**

Pin	Signal
1	+5V
2	MDIO

## Fast Ethernet Connector Signals

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Pin	Signal
3	MDC
4	RxD<3>
5	RxD<2>
6	RxD<1>
7	RxD<0>
8	Rx_DV
9	Rx_Clk
10	Rx_Er
11	Tx_Er
12	Tx_Clk
13	Tx_En
14	TxD<0>
15	TxD<1>
16	TxD<2>
17	TxD<3>
18	Col
19	CRS
20	+5V
21	+5V
22	Common
23	Common
24	Common
25	Common
26	Common
27	Common
28	Common
29	Common

## Fast Ethernet Connector Signals

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Pin	Signal
30	Common
31	Common
32	Common
33	Common
34	Common
35	Common
36	Common
37	Common
38	Common
39	Common
40	+5V

Table C-3 lists the signals for the supervisor engine module RJ-45 Fast Ethernet 100BaseTX MDI X port.

**Table C-3 Supervisor Engine Module 100BaseTX MDI X Port Signals**

Pin	Signal	Direction	Description
1	RxD+	<—	Receive data +
2	RxD—	<—	Receive data —
3	TxD+	—>	Transmit Data +
4	NC		No connection
5	NC		No connection
6	TxD—	—>	Transmit Data —
7	NC		No connection
8	NC		No connection

Table C-4 lists the signals for the Fast Ethernet switching module 100BaseTX 12 Port RJ-45 Fast Ethernet connector cable.

Table C-4 lists the RJ-45 connector port signals for the Fast Ethernet switching module 100BaseTX (12 port) and 10/100 Mbps Fast Ethernet switching module (12 port).

**Table C-4 Fast Ethernet Switching Module 100BaseT RJ-45 Port Signals**

Signal	Pin	Direction	Description
RxD+	1	<—	Receive data +
RxD–	2	<—	Receive data –
TxD+	3	—>	Transmit Data +
NC	4		No connection
NC	5		No connection
TxD–	6	—>	Transmit Data –
NC	7		No connection
NC	8		No connection

## Fast Ethernet Connector Signals

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