



Connecting Modem to Console Port

This appendix explains how to configure a dial-up modem and connect it to the console port on the Cisco OER Master Controller Engine. Connecting a modem to the Cisco OER Master Controller Engine allows you to remotely perform the same console operations as you would locally. The Cisco OER Master Controller Engine supports the following modems:

- 3Com (US Robotics) Courier Model 3453 Modem
- 3Com OfficeConnect Model 3294 Modem
- 3Com (US Robotics) Sportster Model 5686 Modem
- MultiTech Model MT5634ZBA Modem

This appendix includes the following sections:

- [Configuring a Modem](#)
- [Cabling a Modem to Cisco OER Master Controller Engine](#)

Configuring a Modem

You must configure the modem before you can connect it to the Cisco OER Master Controller Engine. You can connect the modem to a terminal or a PC using a terminal emulation program, such as Hyperterminal. If you connect the modem to the COM port on a PC, you need the following cable and connectors:

- RJ-45-to-RJ-45 rolled cable
- RJ-45-to-DB-25 modem adapter
- DB-9-to-RJ-45 terminal adapter

Figure B-1 shows the pin number assignments for the 9-pin, male D-shell console port connector on the back of the Cisco OER appliance. These pin number assignments conform to the industry standard.

Figure B-1 Console Port Connector Pin Numbers

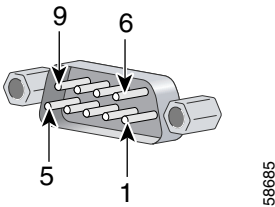


Table B-1 connector pinouts for the Cisco OER appliance console port.

Table B-1 Console Port Connector Pinouts

Pin	Signal	I/O	Definition
1	DCD	I	Data carrier detect
2	SIN	I	Serial input
3	SOUT	O	Serial output
4	DTR	O	Data terminal ready
5	GND	N/A	Signal ground
6	DSR	I	Data set ready
7	RTS	O	Request to send

Pin	Signal	I/O	Definition
8	CTS	I	Clear to send
9	RI	I	Ring indicator
Shell	N/A	N/A	Chassis ground

You configure the modem by entering commands from the Attention (AT) command set and, if applicable, setting the configuration switches on the modem. Although the process to configure the modem may vary from one modem to another, configure your modem so that its resulting behavior is as follows:

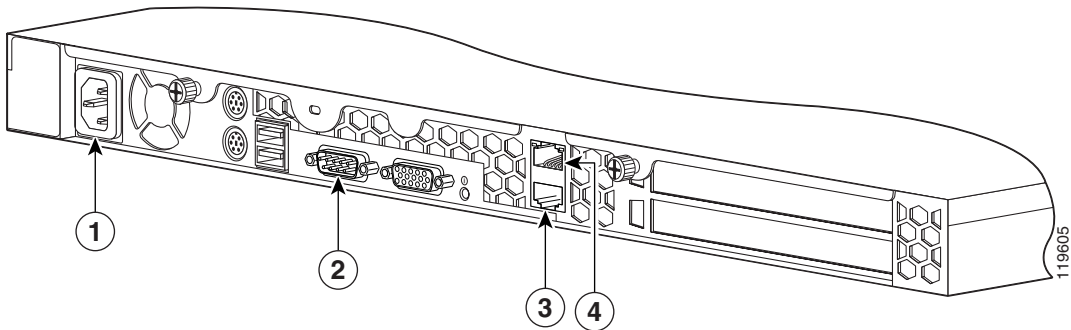
- Answers a call on the first ring
- Disables both hardware and software flow control mechanisms
- Ignores modem control signals DTR and RTS
- Suppresses echoing of command mode input
- Disables recognition of AT commands

Cabling a Modem to Cisco OER Master Controller Engine

After you configure the modem, perform the following to cable a modem to the Cisco OER Master Controller Engine:

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- Step 1** Unplug the flat rolled RJ-45-to-RJ-45 cable from the terminal adapter on the PC and connect the cable to the console port on the Cisco OER Master Controller Engine ([Figure B-2](#)).

Figure B-2 Back Panel Ports and Receptacles



1	AC power receptacle	2	Console/serial connector
3	RJ-45 Ethernet 1 connector with 10/100/1000-Mbit/s operation	4	RJ-45 Ethernet 0 connector with 10/100/1000-Mbit/s operation

Step 2 Make sure that the settings on the remote console match the Cisco OER Master Controller Engine default settings specified in [Table B-2](#).

Table B-2 Console Port Default Settings

Parameters	Default Settings
Baud	9600
Data Bits	8
Parity	None
Stop Bits	1
Terminal Type	VT100/ANSI
Flow Control	None

**Note**

When you remotely log in to the Cisco OER Master Controller Engine through a modem, ensure that you log out before disconnecting from the session. Use the **exec-timeout** *timeout* command to set the maximum amount of time that the console session can be idle on the Cisco OER Master Controller Engine before it logs it out. By default, the timeout is 150 minutes.

Cabling a Modem to Cisco OER Master Controller Engine