



Installing Your Smart Serial 6 PCI Card

Your Smart Serial 6 package includes the following items:

- one Smart Serial 6 card for computers running the Macintosh operating system (Mac OS) and with PCI slots
- one six-ended Smart Serial 6 cable
- this manual

When installed in a PCI expansion slot of a computer running the MacOS, the Smart Serial 6 card provides the computer with six additional serial ports. If sufficient PCI slots are available, up to three Smart Serial 6 cards can be installed, to provide the maximum number of serial connections for an Apple Remote Access (ARA) MultiPort Server. (The MultiPort Server can have up to 16 connections.) Each of the six segments of the Smart Serial 6 cable ends in a DB-25 connector that can attach to any asynchronous serial device, such as a modem or an ISDN adapter.

This manual includes guidelines for safely installing the card, connecting the cable and connecting devices. For instructions on setting up and using a Remote Access MultiPort Server, see the *Apple Remote Access MultiPort Server Administrator's Guide*.

The software required to use the card is automatically installed when you install Remote Access MultiPort Server version 2.2 for PowerPC™-based computers running the Mac OS with at least one PCI slot. No additional software is required or supplied.

IMPORTANT Keep the card inside its antistatic bag in the protective cardboard box until you're ready for installation.

System requirements

You can install and set up your card in any computer running the Mac OS that has a PCI expansion slot. See Chapter 1 of the *Apple Remote Access MultiPort Server Administrator's Guide* for complete information on system software and random-access memory (RAM) requirements.

Installing the card and cable

To install the card, follow the instructions in this section.

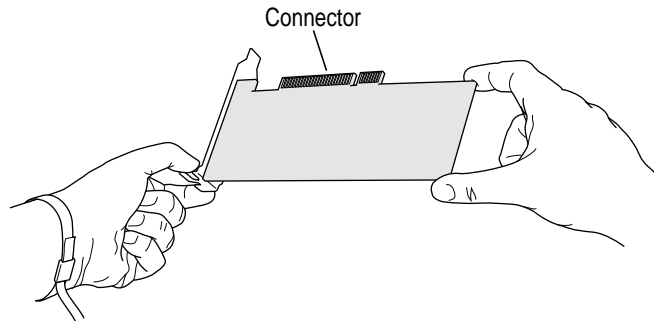
WARNING To avoid damage to the card and to your other computer equipment, be sure that you have both turned off and unplugged the computer before beginning installation.

- 1 Following the specific setup information that came with your computer, unplug the power cord, open the back panel or lid, and locate an empty PCI expansion slot inside the computer.**

Your computer setup guide includes instructions to help you avoid electric shock or damage to your computer's components when installing the card.

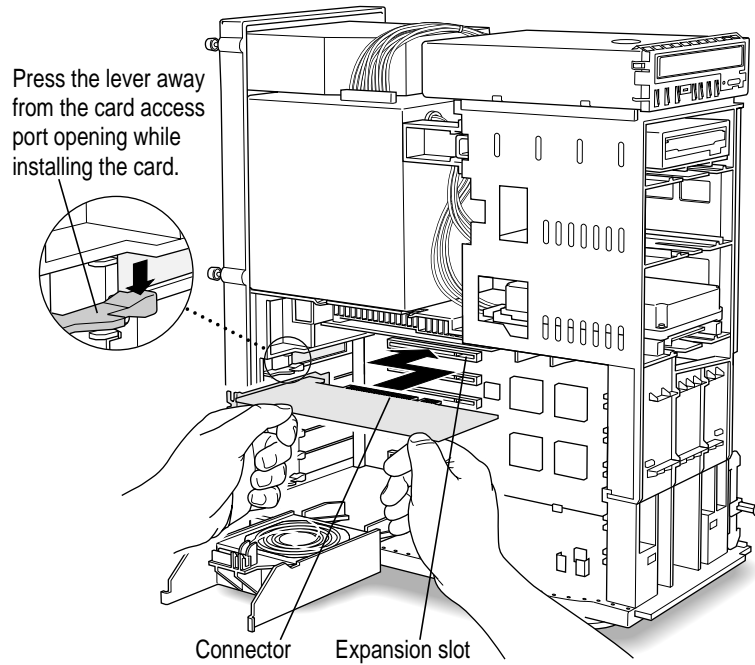
- 2 Remove the card from its antistatic bag.**

Handle the card by its edges and avoid touching the components and connector as much as possible.

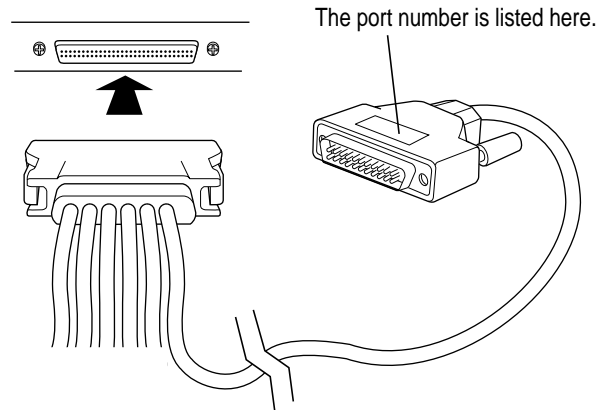


- 3 Align the card over the expansion slot and press down firmly and evenly on both ends until the card fits snugly into place.**

Continue to hold the card by its edges as you insert it, taking care not to touch or damage any of its components. Test to see if the card is properly connected by lifting the card slightly. If it resists and stays in place, it's connected.



- 4 **Attach the Smart Serial cable to the 80-pin edge connector on the Smart Serial 6 card.**
Make sure the cable is seated firmly and evenly, so that the 80-pin connector is fully engaged.



- 5 **Repeat steps 2 through 4 to install additional cards and cables.**
You can install cards to support a maximum of sixteen ports.
- 6 **Following the directions that came with your computer, replace the back panel or lid and then plug in the computer.**

Connecting to devices

Up to six devices can be connected per card, not to exceed a total of sixteen devices for the Remote Access MultiPort Server. Any of the six ports on the card can be used, but the ports have different communication rates:

- Ports 1 through 4 support asynchronous data transfer up to 115.2 kilobits per second (Kbps).
- Ports 5 and 6 support asynchronous data transfer up to 57.6 Kbps.

For best performance, use ports 1 through 4 for higher-speed communications, leaving ports 5 and 6 for lower-speed communications.

Note: The DB-25 connectors on the Smart Serial 6 cable are labeled according to port. Once you have decided which port each device should use, simply attach the appropriate connector to that device.

Wiring specifications

The DB-25 connectors on the Smart Serial 6 cable are wired for RS-232 DTE as shown in the following table.

Wiring specifications

Pin	Name	Signal designation
1	na	Shield
2	TxD	Transmit data
3	RxD	Receive data
4	RTS	Request to send
5	CTS	Clear to send
6	DSR	Data set ready
7	GND	Ground
8	DCD	Data carrier detect
15	TxC	Transmit clock
17	RxC	Receive clock
20	DTR	Data terminal ready

Service and support

If you encounter difficulties with installing or using your Smart Serial 6 card, contact your Apple-authorized dealer or service representative. You can also obtain help by calling the Apple Assistance Center, or by logging on to the Apple Remote Access Web page through <http://www.apple.com>.

Communications regulation information

FCC statement

This equipment has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications in Part 15 of FCC rules. See instructions if interference to radio or television reception is suspected.

Radio and television interference

The equipment described in this manual generates, uses, and can radiate radio-frequency energy. If it is not installed and used properly—that is, in strict accordance with Apple’s instructions—it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications in Part 15 of FCC rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

You can determine whether your computer system is causing interference by turning it off. If the interference stops, it was probably caused by the computer or one of the peripheral devices.

If your computer system does cause interference to radio or television reception, try to correct the interference by using one or more of the following measures:

- Turn the television or radio antenna until the interference stops.
- Move the computer to one side or the other of the television or radio.
- Move the computer farther away from the television or radio.
- Plug the computer into an outlet that is on a different circuit from the television or radio. (That is, make certain the computer and the television or radio are on circuits controlled by different circuit breakers or fuses.)

If necessary, consult an Apple-authorized service provider or Apple. See the service and support information that came with your Apple product. Or, consult an experienced radio/television technician for additional suggestions.

IMPORTANT Changes or modifications to this product not authorized by Apple Computer, Inc., could void the FCC Certification and negate your authority to operate the product.

This product was tested for FCC compliance under conditions that included the use of Apple peripheral devices and Apple shielded cables and connectors between system components. It is important that you use Apple peripheral devices and shielded cables and connectors between system components to reduce the possibility of causing interference to radios, television sets, and other electronic devices. You can obtain Apple peripheral devices and the proper shielded cables and connectors through an Apple-authorized dealer. For non-Apple peripheral devices, contact the manufacturer or dealer for assistance.

DOC statement

DOC Class B Compliance This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled “Digital Apparatus,” ICES-003 of the Department of Communications.

Observation des normes—Classe B Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur : “Appareils Numériques”, NMB-003 édictée par le ministre des Communications.

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