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EPC®-1AM

Installation Instructions

RadiSys Corporation

19545 NW von Neumann Drive
Beaverton, Oregon 97006
(503) 690-1229
(800) 950-0044

07-0035-00 February 1990

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EPC-1AM Installation Instructions

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February 1990

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1 Introducing the EPC-1AM

The EPC-1AM adapter module is designed to accept 8-bit PC/AT *short cards* (up to 5.75 inches long). The EPC-1AM has three components: a front panel, a circuit board, and a replacement SCSI disk cable. The circuit board has an edge connector and a sliding bracket which allow a PC/AT short card to be mounted upside down with its panel connector facing the front of the VMEbus card cage.

On the back of the adapter module circuit board is a 96-pin female connector which plugs into a matching pin group on the outer board of the EPC-1P CPU module.

Because it typically resides between the CPU and disk modules in an EPC-1 system, the adapter module circuit board has two rectangular holes through which the SCSI and floppy drive cables may pass. Diskless network nodes consist of the adapter and CPU modules, along with the appropriate networking card and software.

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2 Installing the EPC-1AM

CAUTION: BEWARE OF POSSIBLE DAMAGE BY ELECTROSTATIC DISCHARGE. Please ground yourself and your work surface before performing the following procedures.

Note: If your EPC-1P CPU module and EPC-1MS disk module are already installed in the card cage, remove them and carefully unplug both ribbon cables from the EPC-1P.

2.1 On an EPC-1 System with an EPC-1MS Disk Module

Step 1: Figure 1 shows the EPC-1MS disk module as seen from the rear. The upper cable goes to the floppy drive; the wider SCSI cable below it goes to the hard disk. Remove the SCSI cable from the hard disk, and replace it with the longer SCSI cable that comes with the EPC-1AM. Make sure that the end of the cable attached to the hard disk *does not* have a plastic pull tab. Make sure, too, that the SCSI cable extends to the right when the disk module is viewed from the rear.

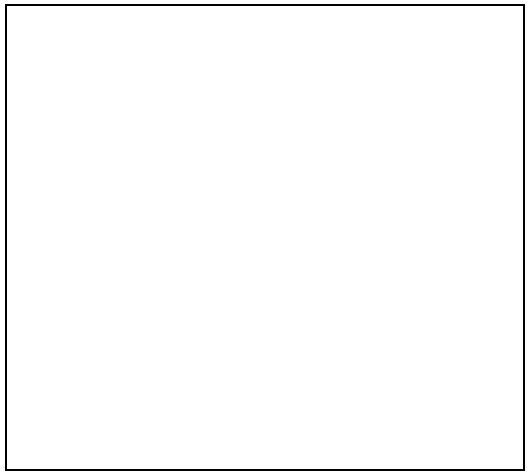


FIGURE 1. EPC-1MS (rear view)

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Step 2: Lay the EPC-1P CPU module on a flat surface with its component side up and the VMEbus P1 and P2 connectors to the right (see Figure 2). Lay the EPC-1AM circuit board to the right of the CPU module with the 96-pin female "AT bus" connector up (see Figure 2). As indicated by the dotted lines in Figure 2, flip the adapter module circuit board over the CPU module so that the female connector on the adapter module circuit board lines up with the 96 pins on the CPU module. *Do not* seat the connector fully; press the connector only about 1/4" down over the 96 pins. This spacing allows the adapter module circuit board (AMCB) to reside in the VMEbus slot adjacent to the CPU module.

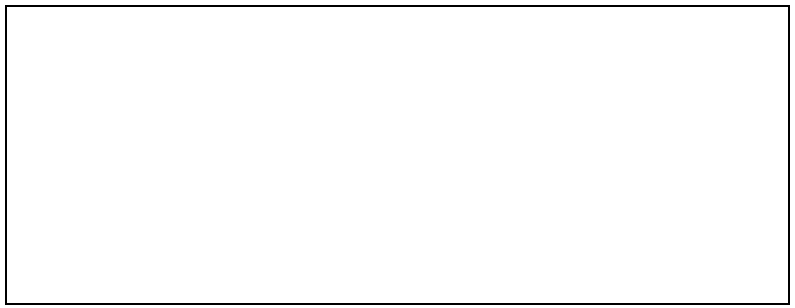


FIGURE 2. *Left,* EPC-1P; *right,* EPC-1AM circuit board

Step 3: Place the disk module on its right side next to the CPU-AMCB assembly, with its P1 connector facing the P1 connectors of the CPU module and adapter module circuit board (see Figure 3). Pass the SCSI cable through the larger hole in the adapter module circuit board and attach it to the SCSI cable pins on the CPU module. Make sure the SCSI cable is fully seated at both ends. (Let the floppy cable hang free.)

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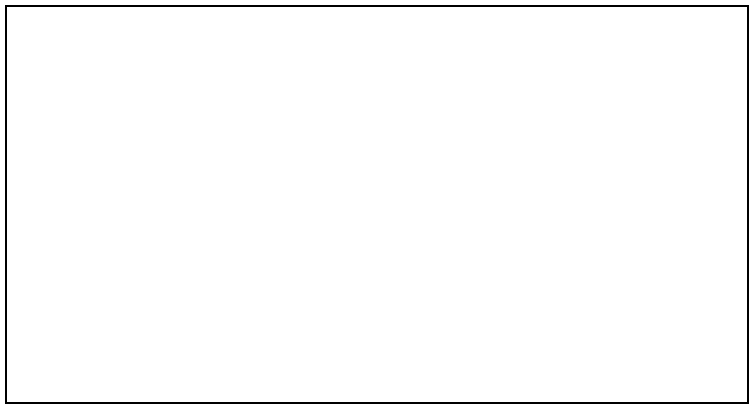


FIGURE 3. *Left,* CPU-AMCB assembly; *right,* disk module

Step 4: Hold your PC/AT short card with its "components" side up and its PC bus connector pointing away from you. Insert the short card into the edge connector on the adapter module circuit board, as shown in Figure 4. The short card will cover part of the SCSI cable.

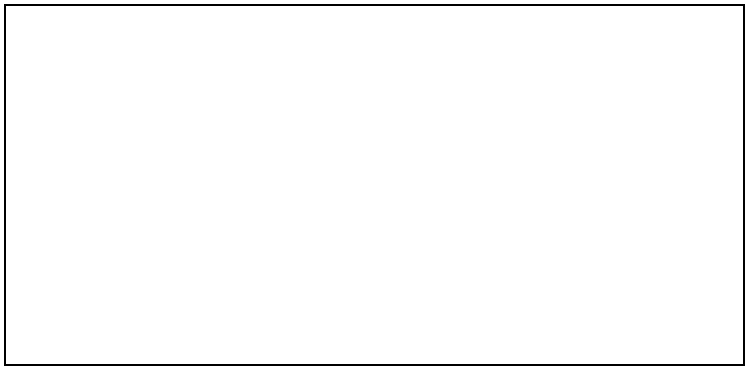


FIGURE 4. *Left,* CPU-AMCB assembly; *right,* disk module

Step 5: Use the sliding bracket to anchor the PC/AT short card at the edge closest to you (see Figure 4).

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Step 6: Verify that the 96-pin female connector is still properly seated and carefully raise all three modules. Stand them on their bottom edges with the CPU-AMCB assembly and the disk module angled slightly apart, like a partially opened book. Pass the floppy drive cable through the smaller rectangular hole near the top of the adapter module circuit board and attach it to the floppy drive pins on the CPU module. Swing the front panels of the CPU-AMCB assembly and the disk module together and lift all three modules. Hold them with their front panels facing you and align the cards with the VMEbus slots you mean them to occupy.

Step 7: Slide only the CPU-AMCB assembly into the card cage until all three boards of the assembly are well started along their top and bottom guides. Leaving an empty slot between the adapter module circuit board and the disk module, slide the disk module into the card cage. (With a PC/AT card mounted, the adapter module will occupy two VMEbus slots.) Seat all modules firmly in the VMEbus backplane.

Step 8: Remove the screw on the bent lip of the adapter module front panel. Fit the adapter module front panel over the metal panel of the PC/AT card so that the bent lips on the metal panel of the PC/AT card and the front panel of the adapter module line up. If possible, replace and tighten the screw on the bent lip of the adapter module front panel.

Step 9: Tighten all front panel mounting screws and power up the EPC-1 system in the normal way. The PC/AT card will function as it would in a desktop PC environment.

2.2 On an EPC-1 System with No Disk Module

Follow the preceding instructions, skipping steps 1 and 3. Ignore references in steps 6 and 7 to the EPC-1MS disk module.

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3 If You Have Problems

If, after installing the adapter module, the system appears not to be functioning correctly, please make sure all ribbon connectors are seated firmly on the correct pins. Make sure, too, that all modules are seated firmly in the VMEbus backplane.

If you encounter problems in using your EPC-1AM adapter module, please call the RadiSys technical support hotline at (800) 950-0044 between the hours of 8AM and 5PM Pacific time.

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1 Installing the EPC-1AM

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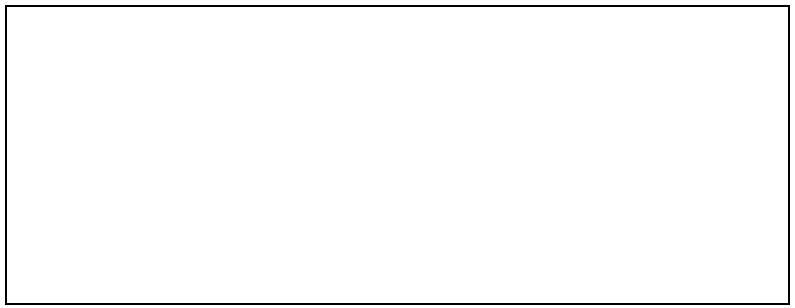


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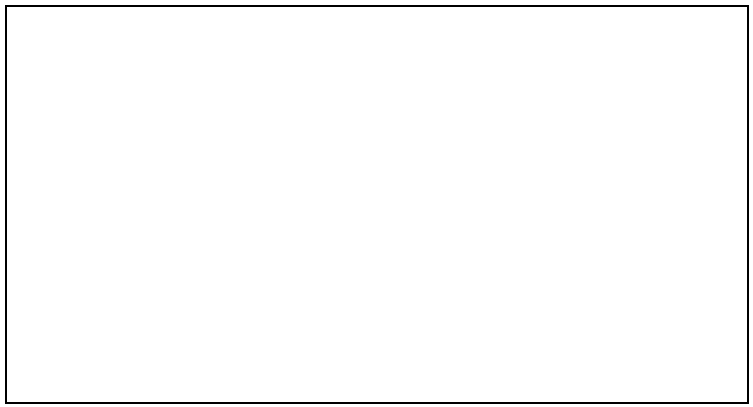


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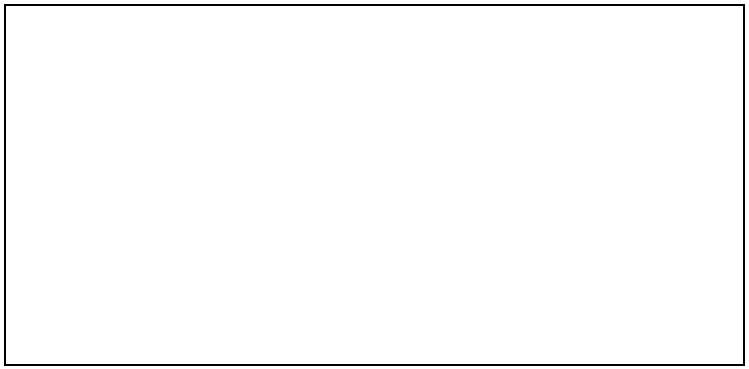


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