



C I S C O S Y S T E M S

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Installing a Dual-Bank Flash Memory SIMM on the AccessPro PC Card

This document explains how to replace the system-code SIMM (a single-bank Flash memory SIMM) on your AccessPro PC card with a dual-bank Flash memory SIMM. A dual-bank Flash memory SIMM provides additional memory and the ability to load two system codes into Flash memory (one system code in each bank).

Preventing Electrostatic Discharge Damage

Electrostatic discharge (ESD) is a discharge of stored static electricity that can damage equipment and impair electrical circuitry. It occurs when electronic components are improperly handled and can result in complete or intermittent failures.

Following are guidelines for preventing ESD damage:

- Before you open a chassis, ensure that power to the unit is off, but that the power cord is connected to the wall receptacle. Having the power cord connected ensures a ground path for any ESD voltages.
- Always use an ESD-preventive wrist or ankle strap and ensure that it makes good skin contact.
- Connect the equipment end of the strap to an unpainted surface of the chassis frame or another proper grounding point or surface. Attach it to the inside bottom of the chassis or to the rear panel (inside or outside) without making contact with any connectors or appliques.
- Avoid contact between equipment and clothing. The wrist or ankle strap only protects the equipment from ESD voltages on the body; ESD voltages on clothing can still cause damage.
- Handle printed circuit cards and appliques by the edges only; avoid touching the components, traces, or any connector pins.
- Place a removed card component side up on an antistatic surface or in a static shielding bag. If the component is being returned to the factory, immediately place it in a static shielding bag.
- Do not remove the wrist or ankle strap until the installation is complete.



Caution To avoid damaging the equipment, periodically check the resistance value of the antistatic strap. The measurement should be between 1 and 10 megohms (Mohms).

Tools and Equipment Required

The following tools and equipment are required for installation:

- Number 1 Phillips screwdriver
- ESD-preventive wrist strap with an installed alligator clip
- A dual-bank Flash memory SIMM

Note Flash memory SIMMs for the AccessPro card are available only from Cisco Systems, Inc. Contact a customer service representative for more information.

Removing the System-Code SIMM

To remove the system-code SIMM installed on your AccessPro PC card, follow these steps:

Step 1 Back up the system code (software) on the system-code SIMM following the instructions in the publication *Router Products Configuration Guide*.



Caution Dual-bank Flash memory SIMMs are shipped without preinstalled system code. Be sure to back up the system code on the system-code SIMM before removing it.

Step 2 Turn OFF power but, to channel ESD voltages to ground, do not unplug the power cord.

Step 3 Remove the PC chassis cover, if it has not already been removed, following the instructions in your PC system manual.

Step 4 Attach an ESD-preventive wrist strap.

Step 5 Locate the AccessPro card in its ISA-bus slot. Remove the screw that secures the card bracket to the PC chassis. If a daughter card is installed, remove the screw that secures the daughter card bracket to the PC chassis.

Step 6 Remove the AccessPro card from its ISA-bus slot.

Step 7 Turn the card so it is oriented in the position shown in Figure 1, with the DRAM SIMM toward you.

Step 8 Locate the system-code SIMM on the system card. (See Figure 2.)

Step 9 Remove the existing system-code SIMM by pulling outward on the connectors to unlatch them. The connector holds the SIMM tightly, so be careful not to break the holders on the SIMM connector. (See Figure 3.)



Caution To prevent damage, do not push on the center the SIMM. Handle the SIMM with care.

Figure 1 Orientation for SIMM Installation

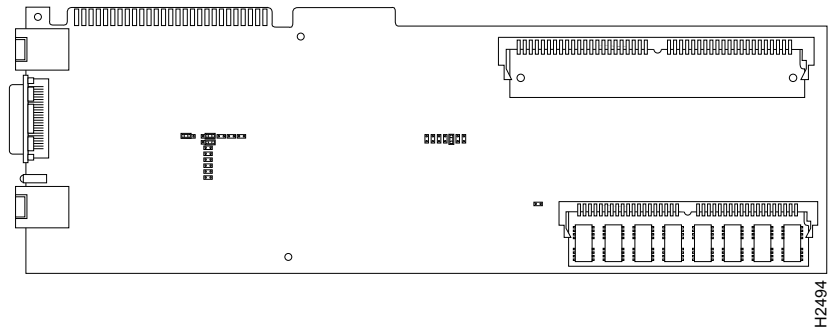


Figure 2 Locating the SIMM Socket

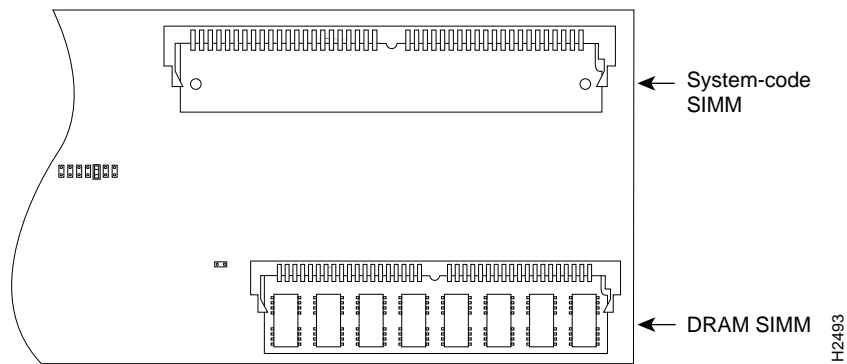
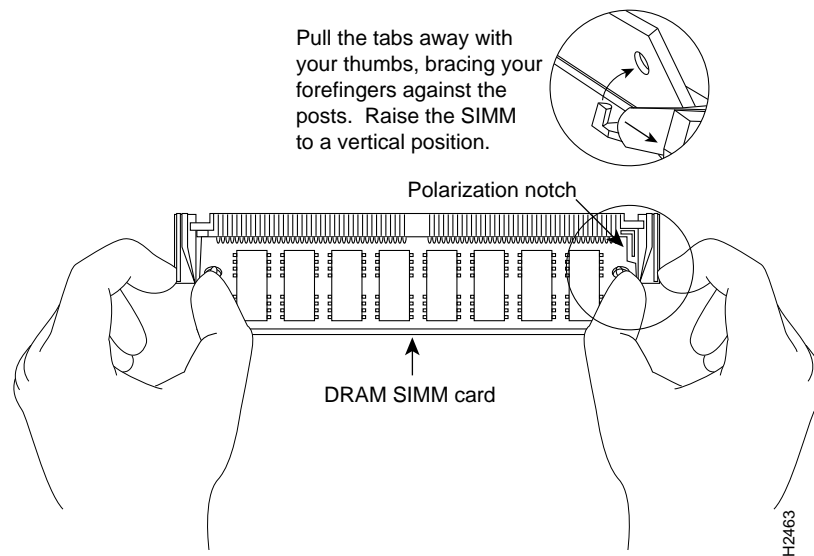


Figure 3 Removing and Replacing SIMMs



Installing the Dual-Bank Flash Memory SIMM

- Step 1** Turn the AccessPro card so it is oriented in the position shown in Figure 1, with the DRAM SIMM toward you.
- Step 2** Position the new dual-bank Flash memory SIMM so that the polarization notch is located at the right end of the SIMM socket, as shown in Figure 3.



Caution Note that Flash memory SIMMs have components mounted on the rear side. To prevent damage when inserting a SIMM, always use the polarization notch as a reference and *not* the position of the components on the SIMM.

- Step 3** Insert the new SIMM by sliding the end with the metal fingers into the SIMM connector socket at approximately a 45-degree angle to the AccessPro card. Gently rock the SIMM back into place until the latch on either side snaps into place. Do not use excessive force, or the connector could break.
- Step 4** Insert the AccessPro card into its ISA-bus slot on the PC motherboard. Carefully align the edge connector on the ISA-bus slot, and use a rocking motion to seat the card in the proper position. Secure the card in the ISA-bus slot with the bracket screw.
- Step 5** Replace the cover of the PC following the directions provided by the manufacturer and turn on the power.
- Step 6** Restore the system code you backed up in Step 1 of the previous section, “Removing the System-Code SIMM.” Refer to the publication *Router Products Configuration Guide* for detailed instructions about restoring the system code.

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This document is to be used in conjunction with the *AccessPro PC Card Installation* publication.

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