**3Com**

# System Processor Memory Upgrade Installation Guide

**For the CoreBuilder™ 3500 System**

**System Processor Memory Description**

You can expand the Application Processor (AP) memory, Frame Processor (FP) memory, and Flash memory on the CoreBuilder™ 3500 system processor. Installing additional memory expands the system capabilities. Memory for your system is provided in packages called Single In-line Memory Modules (SIMMs).

**i** *When you upgrade the system memory, you must upgrade all three memory SIMMs: the Application Processor memory, the Frame Processor memory, and the Flash memory.*

The following table lists the memory configuration as shipped from the factory and the expanded memory available:

| Memory Location | Factory-Installed Memory (MB) | Available Expanded Memory (MB) | Part Number | Total Memory (MB) |
|---|---|---|---|---|
| Application Processor | 16 (on board) | 16 SIMM | 10001299 | 32 |
| Frame Processor | 4 (on board) | 16 SIMM | 10001299 | 20* |
| Flash | 8 (on board) | 8 SIMM | 531-00007-000 | 16 |

*With Release 1.0 software and the Frame Processor SIMM installed, you do have 20 MB of memory in the system even though, when you enter `system display`, the software incorrectly reports total memory of 8 MB.

**Audience Description**  This guide is intended for **trained technical personnel** only. Do not attempt to install system memory on a CoreBuilder 3500 system processor if you do not have not had the proper training from 3Com. For training information, call 1-800-NET-3COM.

**WARNING:** *Hazardous energy exists within the CoreBuilder system. Use extreme caution when installing the CoreBuilder 3500 system memory. Always be careful to avoid electric shock or equipment damage. See "Safety Precautions" next.*

**Safety Precautions**  Be sure that you follow all safety precautions when installing components in a CoreBuilder 3500 system. To avoid electric shocks, burns, or equipment damage, read and follow these warnings:

**WARNING:** *Before you open the chassis, always unplug the power cord.*

*When the system is on, never insert metal objects such as a screwdriver or a finger with jewelry into open module slots.*

*When the system is on, do not touch any connections within the chassis with your hands or fingers. Do not insert metal objects into the backplane.*

**ESD Safety Information**  Electrostatic discharge (ESD) can damage components on the module. ESD, which occurs when the processor is handled improperly, can cause complete or intermittent failures. To prevent ESD-related damage:

■ Always wear an ESD wrist strap, ensuring that the strap makes good skin contact.

■ Keep the SIMMs in their antistatic shielded bag until you are ready to install them.

■ Always handle the system processor by its edges.

■ Do not touch the components, pins, leads, or solder connections.

**Removing the**   To remove the system processor board:
**System Processor**

**1** Disconnect all cables from the system processor's ports.

**2** Loosen the two captive screws that secure the system processor to the chassis.

**3** Move the injector/ejector handles to the outward position.

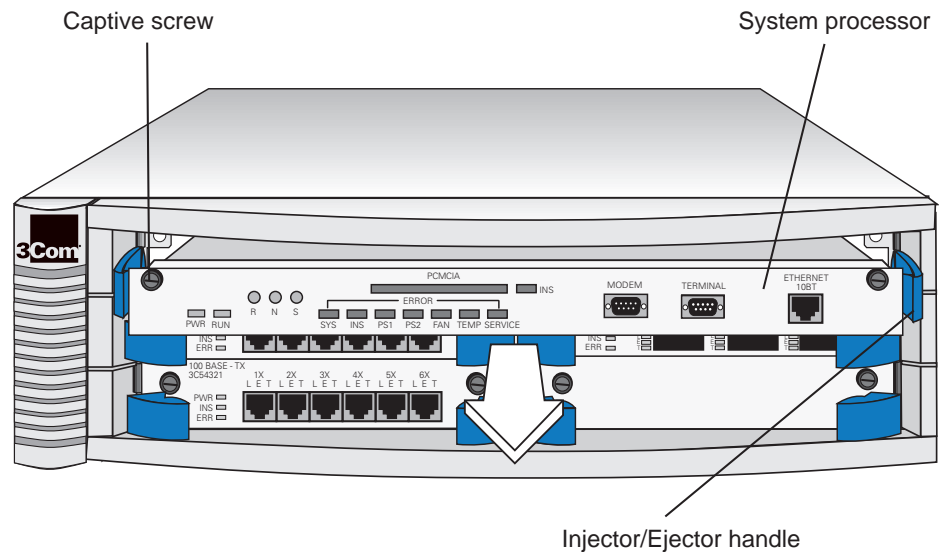**4** Gently slide the system processor out of the chassis. See Figure 1.



**Figure 1**    Removing the System Processor

**Installing the**   To install the new memory onto the CoreBuilder system processor,
**Memory**   follow the steps in this section.

*CAUTION: When you handle a system processor, 3Com recommends that you always use a wrist strap that is connected to a proper ground. This precaution helps prevent electrostatic discharge from damaging the system processor. Also, when you are not using the system processor, store it in an antistatic bag.*

**1** Put an ESD wrist strap on and ensure that you are properly grounded. See "Safety Precautions."

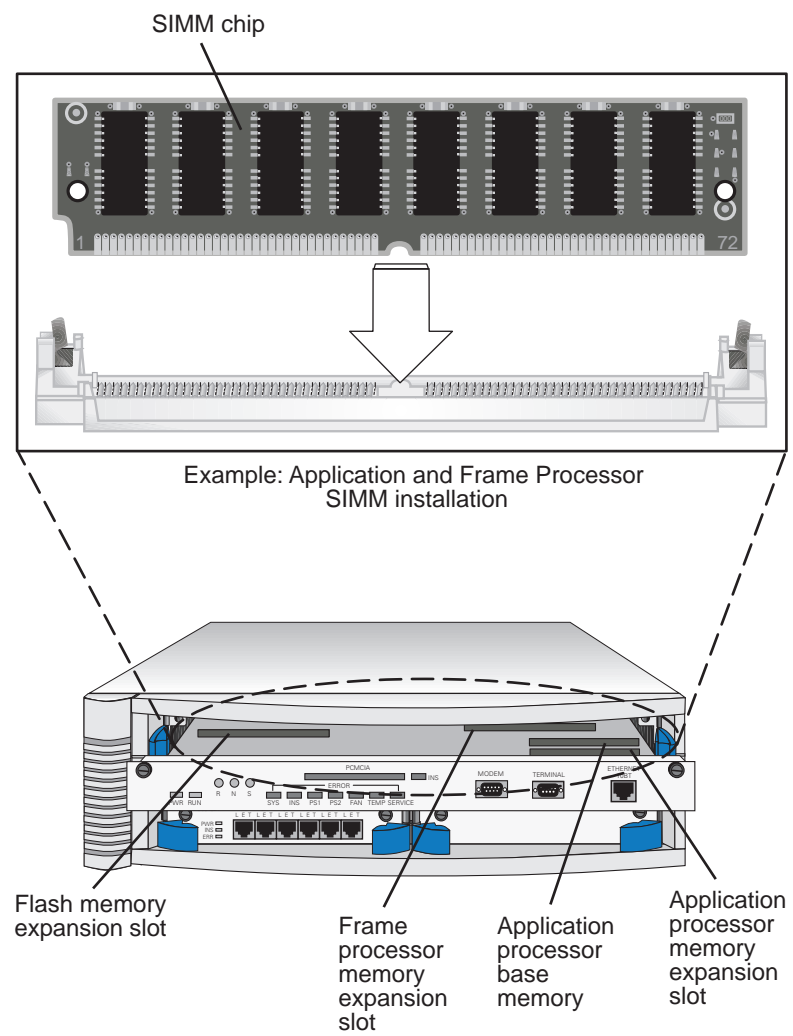**2** Locate the AP, FP, and Flash memory expansion slots. See Figure 2.

SIMM chip

Example: Application and Frame Processor
SIMM installation

Flash memory
expansion slot

Frame
processor
memory
expansion
slot

Application
processor
base
memory

Application
processor
memory
expansion
slot

**Figure 2**   Installing the SIMM Chips

**3** Insert the SIMM chips into the expansion slots.

The SIMM chips are labeled with the following part numbers:

- Application Processor - 10001299

- Frame Processor - 10001299

- Flash - 531-00007-000

**Reinstalling the**     To reinstall the system processor, follow these steps:
**System Processor**

**1** With the injector/ejector handles in the outward position, gently slide the system processor board into the chassis.

**2** To engage the system processor and backplane connectors, push the injector/ejector handles to the inward position until you feel a slight resistance as the connectors engage.

*CAUTION: If the resistance is too great, the system processor and backplane connectors may not be aligned. Forcing the system processor inward can damage the system processor or backplane connectors. If necessary, remove and reinsert the system processor, ensuring that the connectors are properly aligned. Do not tighten the captive screws to seat the system processor.*

**3** Tighten the captive screws to secure the system processor in the chassis.

**4** Reattach all cables to the system processor ports.

*The CoreBuilder 3500 system automatically resets itself when you install a system processor with the power on.*

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**The duration of the warranty for the CoreBuilder™ 3500 System Processor Memory Upgrade SIMM chips is 1 year.**

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| | |
|---|---|
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| Other hardware products (unless otherwise specified in the warranty statement above) | 1 year |
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**3Com Corporation**, 5400 Bayfront Plaza, Santa Clara, CA 95052-8145 (408) 764-5000

**3Com Corporation**
**5400 Bayfront Plaza**
**Santa Clara, California**
**95052-8145**