Acme Packet 4500

ETC NIU Memory Upgrade Guide

Formerly Net-Net 4500

October 2013

ORACLE

About This Guide

Overview

The Acme Packet 4500 is a high performance, high capacity session border controller that optimally delivers interactive communications—voice, video, and multimedia sessions—across wireline, wireless, and cable IP network borders.

Audience

This guide is written for network administrators, and telecommunications equipment installers and technicians. It provides information related to the hardware components, features, installation, start-up, operation, and maintenance of the Acme Packet 4500. Only experienced and authorized personnel should perform installation, configuration, and maintenance tasks.

Revision History

This section contains a revision history for this document.

Date	Revision Number	Description
April 15 2012	Revision 1.00	• Initial Release

ETC NIU Memory Upgrade Guide

Introduction

This guide provides information about how to install the ETC NIU 4 Gigabit Memory Modules upgrade.

The following is a list of the major steps required to install ETC NIU 4 Gigabit Memory Modules.

1. Follow preinstallation guidelines
2. Ground yourself and follow proper ESD grounding procedures
3. Remove the ETC NIU card from the Acme Packet 4500 or 3820 chassis
4. Install the 4 Gigabit Memory Module's into the ETC NIU card.
5. Install the ETC NIU card into the Acme Packet 4500 or 3820.

Shipped Parts

ETC NIU 4 Gigabit Memory Module upgrade order contains the following:

- Acme Packet ETC NIU 4 Gigabit Memory Module

Installation Tools and Parts

The following tools and parts are required to install an ETC NIU 5 Gigabit Memory Module upgrade.

- #2 Phillips-head screwdriver.
- ESD wrist strap.
- ESD safe location.

Preinstallation

- This upgrade should be performed during low-traffic periods or scheduled maintenance windows.
- When installing or removing ETC NIU 4 Gigabit Memory Modules move the ETC NIU card to an ESD safe location.

System Requirements

- Minimum Operating System: nnSCX630f1.xz
- Acme Packet 3820 or Acme Packet 4500
- Minimum Bootloader: 1.10 aug 2011

Caution

Before handling an ETC NIU card follow the proper ESD grounding procedures. Failure to do so could damage the ETC NIU card and its components.

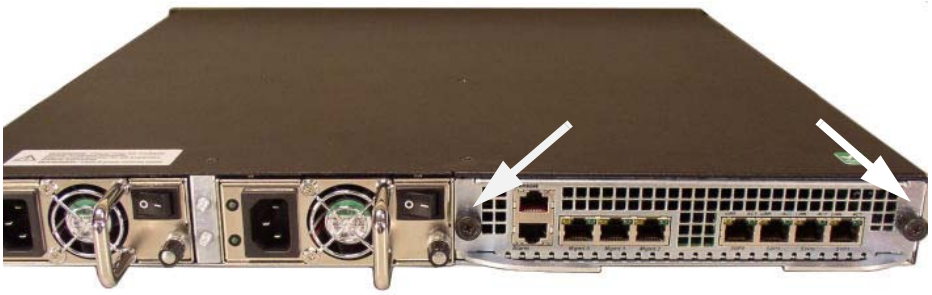
ESD

When performing maintenance on Acme Packet 4500 components you must ground yourself with an ESD wrist strap. An ESD wrist strap is used to channel static electricity to ground. Proper grounding is essential for handling static-sensitive equipment. Alternatively, you can ground yourself according to established grounding guidelines of the location where the Acme Packet 4500 resides.

Note: An ESD wrist strap is not shipped with your Transcoding NIU install kit.

1. Front view of the Acme Packet 4500 chassis.

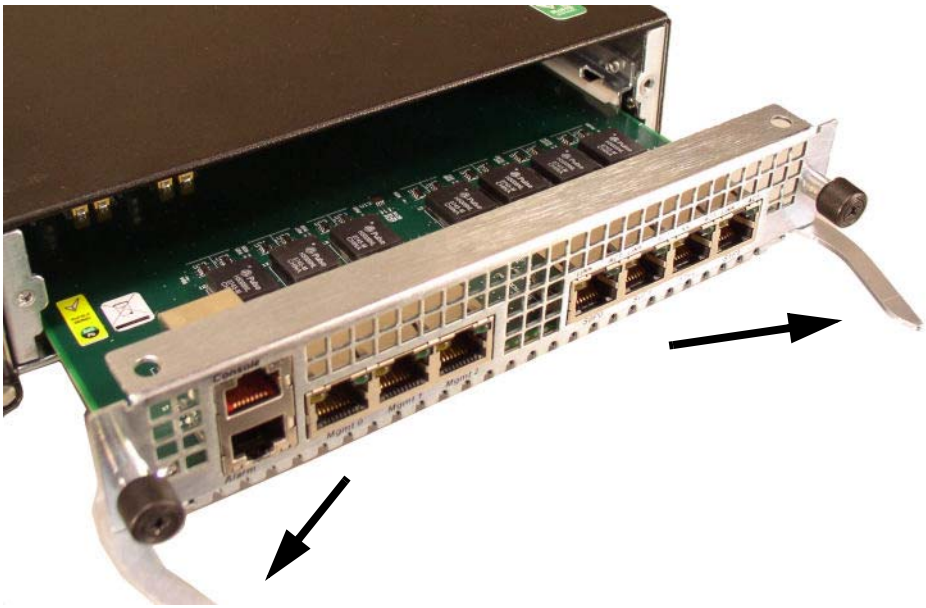
2. Rear view of the Acme Packet 4500 chassis.
3. Unscrew the two thumb screws located on each side of the ETC NIU card with a #2 Phillips screwdriver. The screws are spring-loaded and will be pushed forward, but will not fall out of the processing unit.



4. Pull the two ejector handles out and away from the chassis at the same time to disengage the ETC NIU card from the midplane and chassis.

   Note: Do not force the ETC NIU card out of the chassis. If there is any resistance. Check the alignment of the card and guide rails.

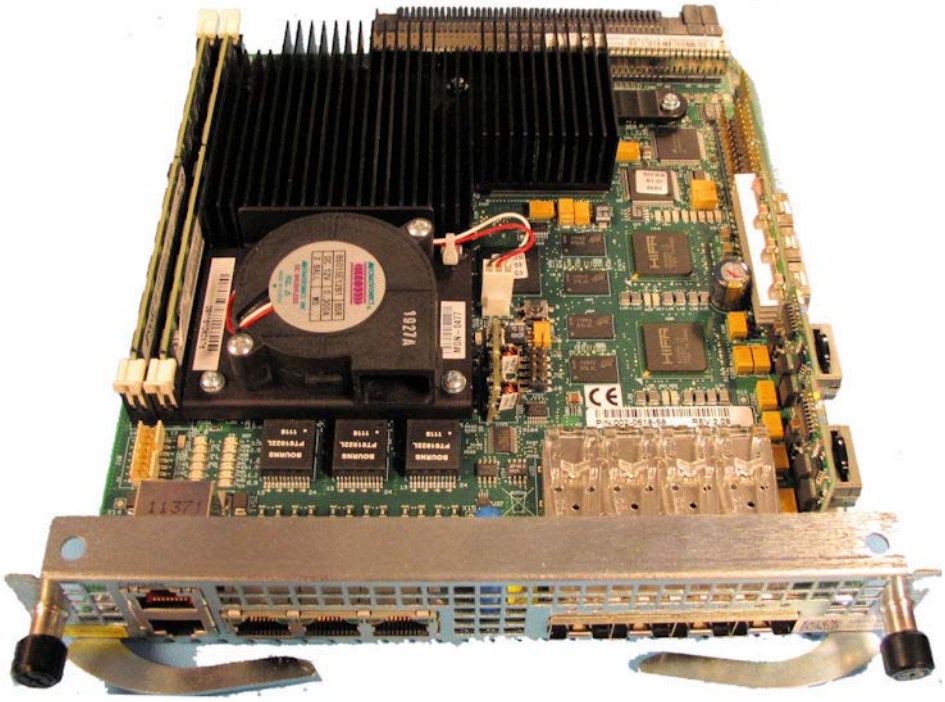
5. Remove the ETC NIU card from the Acme Packet 4500 chassis and move it to an ESD safe location.



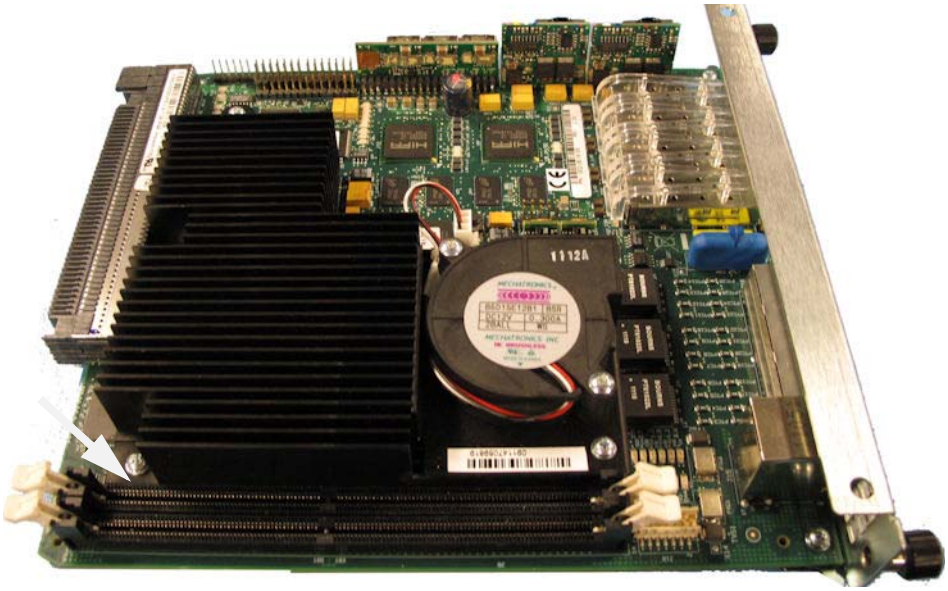
6. The ETC NIU card is removed from the chassis and moved to an ESD safe location.

ETC NIU Identification

1. ETC NIU.



2. ETC NIU side view for Slot 0 and Slot 1 Identification.



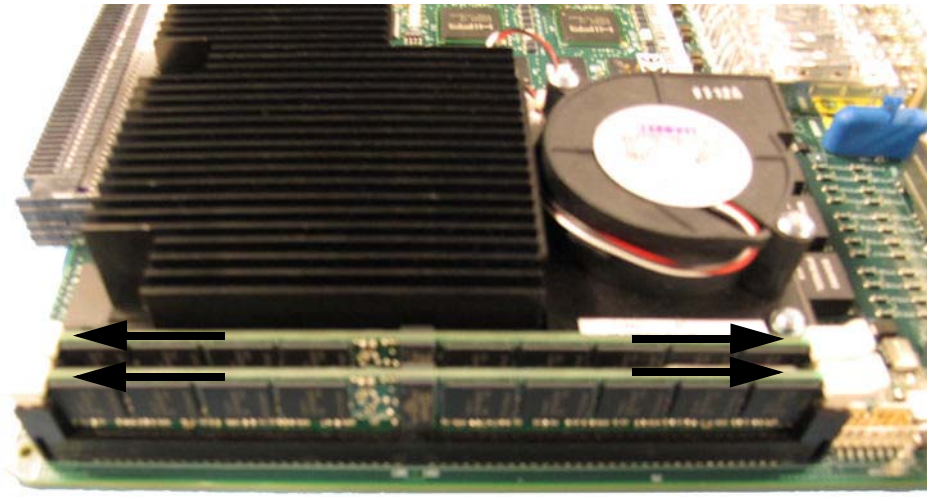
ETC NIU Memory Module Removal

The ETC NIU card is initially populated with two, 2 Gigabit Memory Modules. The upgrade procedure is for two, 4 Gigabit memory modules.

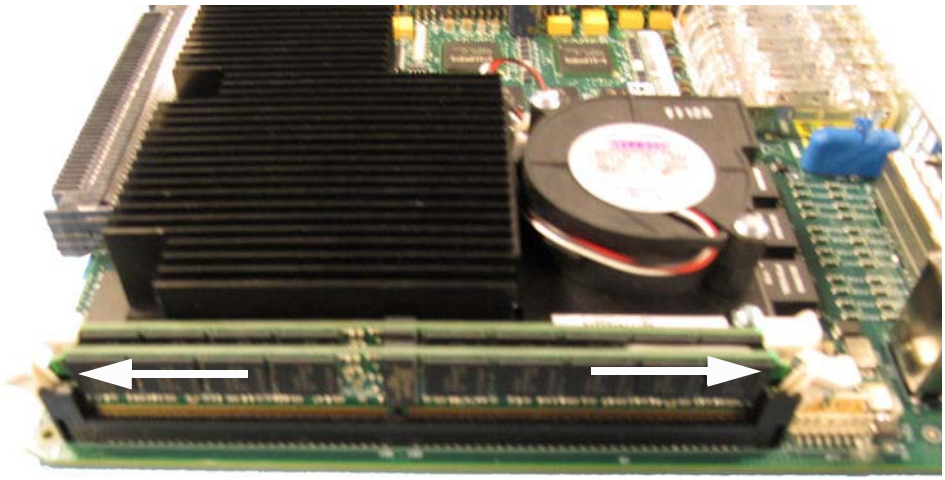
Caution

The 4 Gigabit Memory Module is keyed and can only go into the socket if the keyed position is correct.

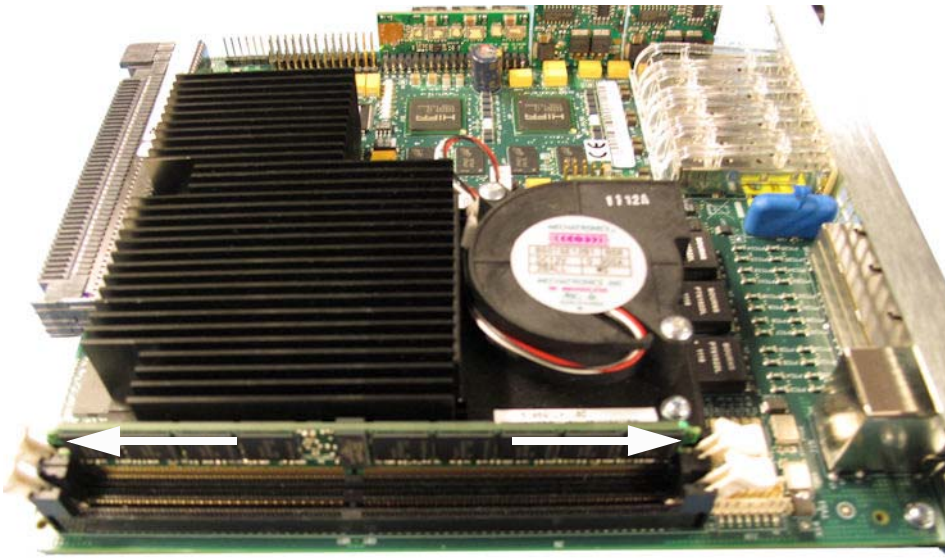
1. The two white ejector handles are in the closed position.
2. To remove the two, 2 Gigabit Memory Modules use your fingers and thumbs to push the two white ejector handles out and down to the extended position. The arrows show the direction.



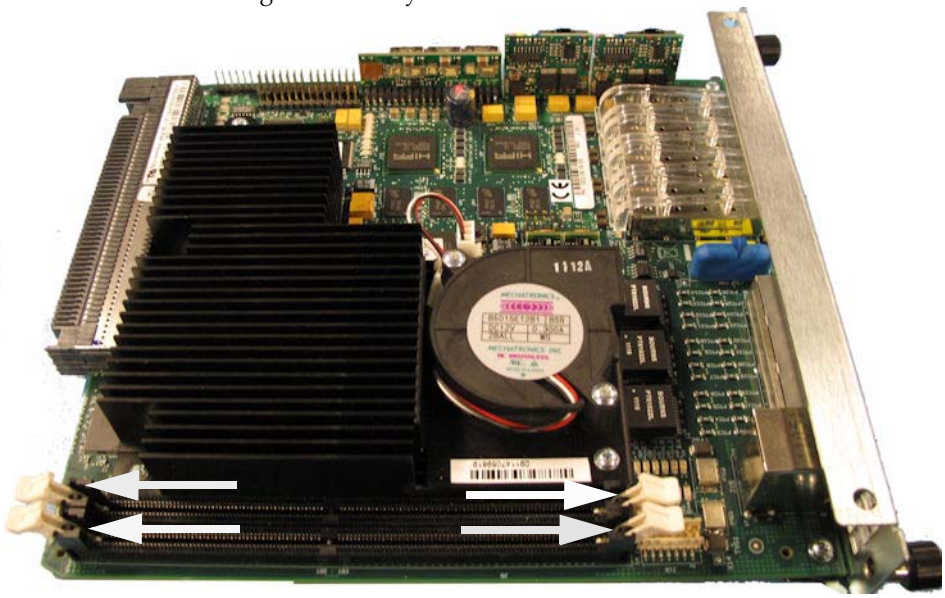
3. With the ejector handle in the extended position. Remove the 2 Gigabit Memory Module from Slot 1.



4. With the ejector handle in the extended position. Remove the 2 Gigabit Memory Module from Slot 0.



5. The four white ejector handles for Slot 0 and Slot 1 are in the extended position and the two, 2 Gigabit Memory Modules are removed.
6. Move the two 2 Gigabit Memory Modules to a static safe location.

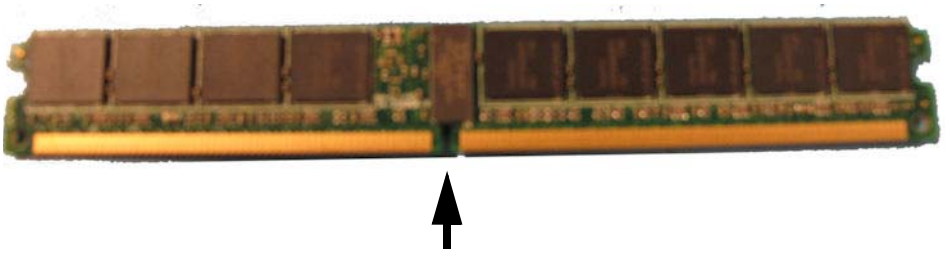


ETC NIU Memory Module Installation

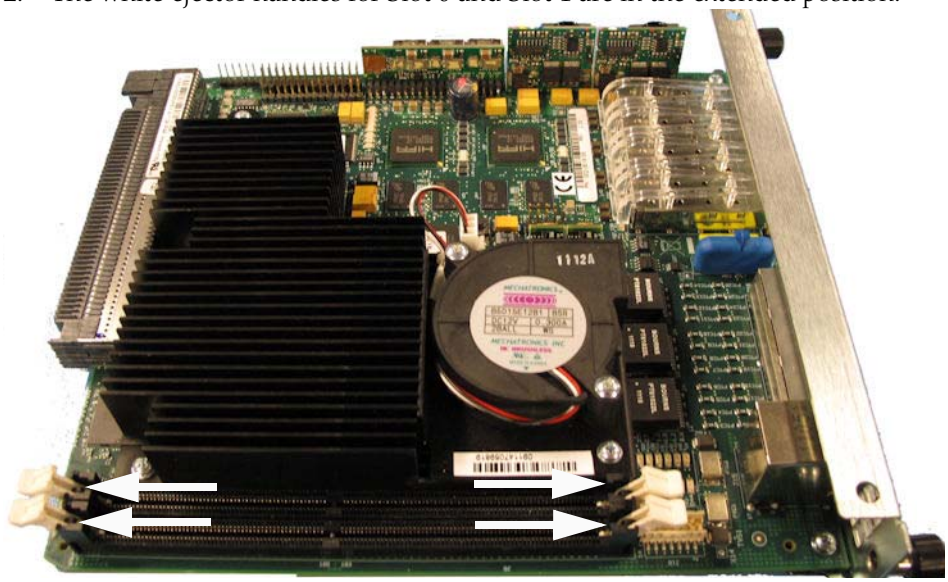
Caution

The 4 Gigabit Memory Module is keyed and can only fit into the socket if the keyed position is correct.

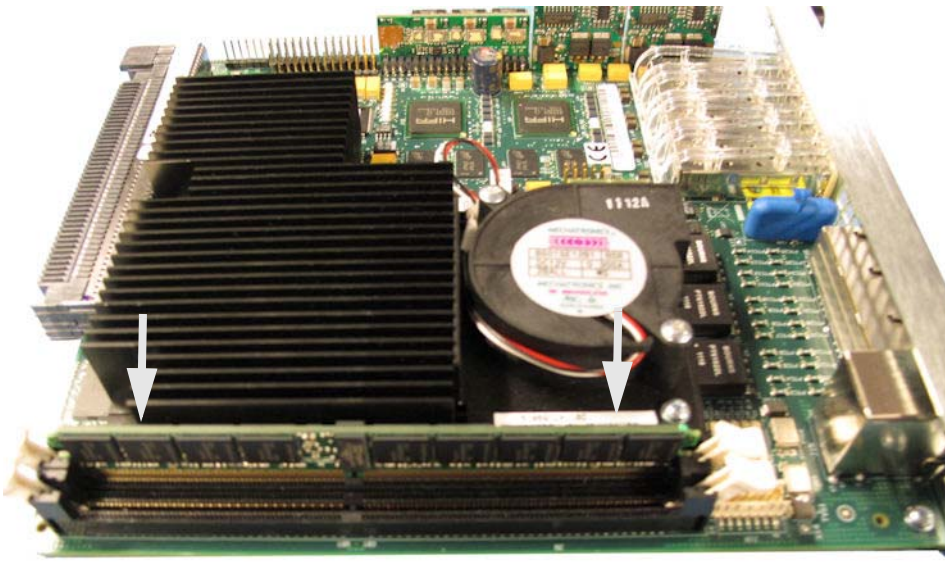
1. The arrow indicates the Keyed position on the 4 Gigabit Memory Module. The 4 Gigabit Memory Module will only go into the socket if the keyed position is correct.



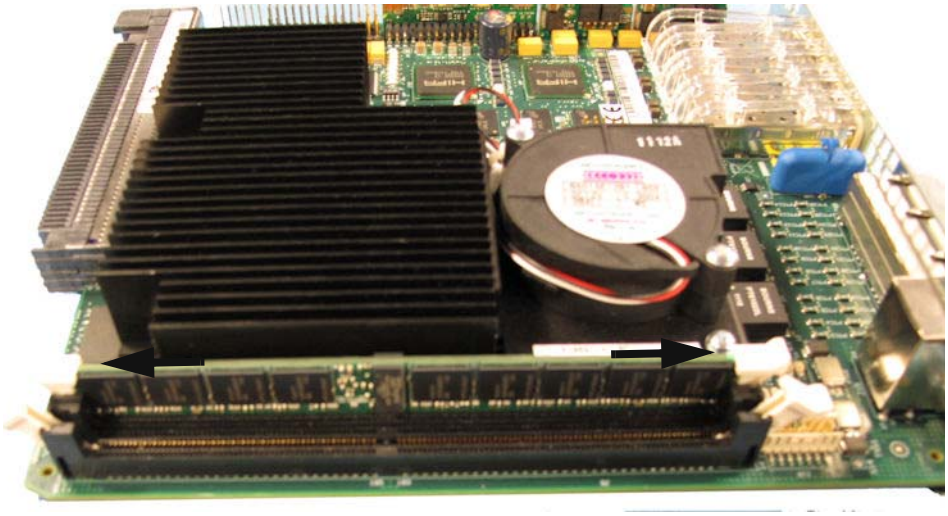
2. The white ejector handles for Slot 0 and Slot 1 are in the extended position.



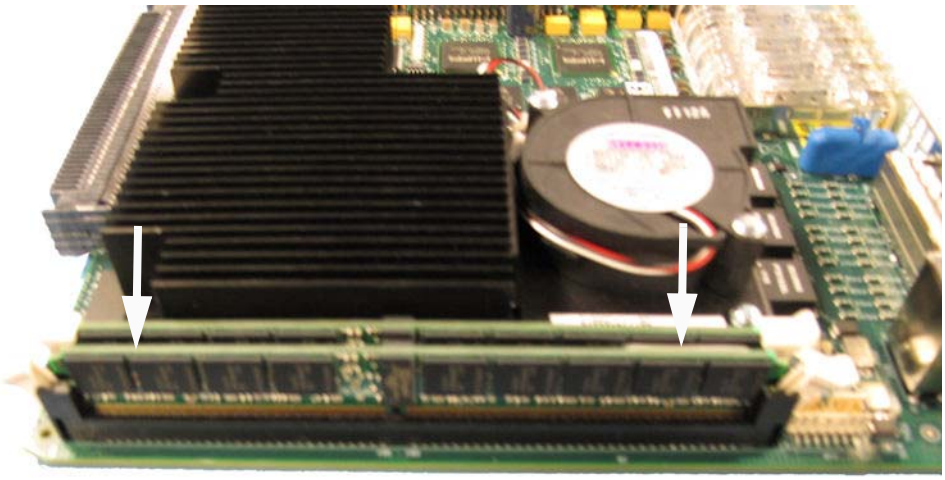
3. Make sure the keyed position is correct on the 4 Gigabit Memory Module, then insert the 4 Gigabit Memory Module into Slot 0.
4. Once the 4 Gigabit Memory Module is inserted into the socket properly. Apply pressure evenly across the top of the 4 Gigabit Memory Module until it is inserted into the socket.



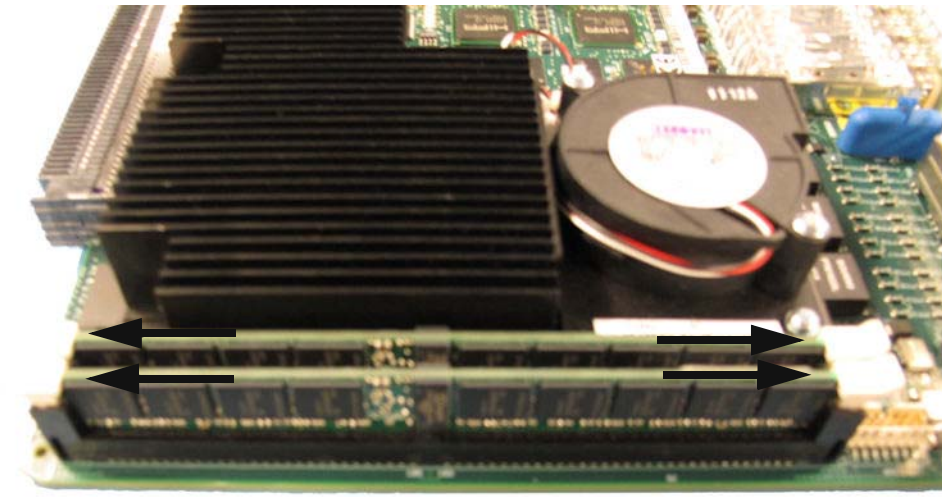
5. As you press down evenly across the top of the 4 Gigabit Memory Module, the two white ejector handles will move up and lock the 4 Gigabit Memory Module into the socket.



6. Repeat steps 1 - 5 for 2nd Memory Module.



7. Repeat steps 1 - 5 for 2nd Memory Module

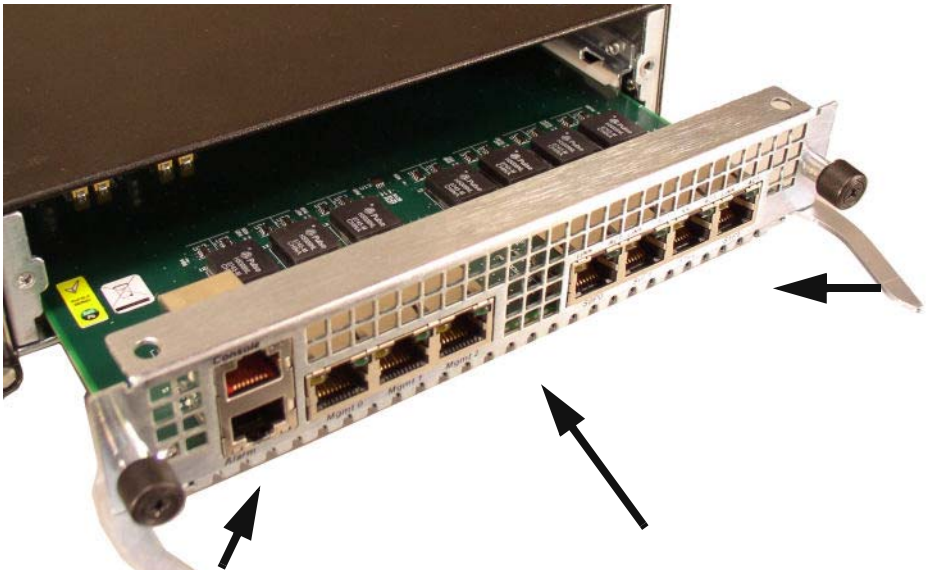


ETC NIU Installation

1. Acme Packet 4500 chassis with the ETC NIU 4 Gigabit Memory Modules installed.
2. Insert the ETC NIU card into the chassis with both sides of the ETC NIU card inserted into the guide rails.

   Note: Do not force the ETC NIU card into the chassis If there is any resistance. Remove the ETC NIU card and check the alignment of the card and guide rails.

3. Move the ETC NIU card forward until it engages with the midplane and chassis.
4. Move the ejector handles from the extended position to the forward position and into the chassis.



5. With a #2 phillips head screw driver, screw in the two screws so the ETC NIU card is secured in the chassis.

System Startup

Once you have completed installing the two, 4 Gigabit Memory Modules in the ETC NIU card, power on the system. The system will only alert you if there is an issue with the new memory modules.