q   **OPTIONAL**

q   **RECOMMENDED**

ꭱ   **MANDATORY - Not for General Distribution**

M3 Option Card FPGA Upgrade

DATE: 11/2/94

MODEL: Micro Lynx M3 Option Card

REVISION: A6

SERIAL NO: **Option Card Serial Number 465 through 545**

SOFTWARE: All

REQUIRED TOOLS:

Static safe workstation   Phillips screwdriver
Grounding wrist strap

DESCRIPTION:

During power up, the Micro Lynx and/or the M3 Option Card may initialize incorrectly, resulting in nonrecognition of the M3 Option Card. The failure is characterized by no M3 LED or one or more LEDs flashing on the System Unit front panel. This will render the Micro Lynx inoperable. This is due to a problem with AT&T Programmable Gate Array (FPGA) PROMs. If your M3 Option Card is fitted with an AT&T FPGA, this IC MUST be replaced with a Xilinx FPGA (<u>contact TimeLine for an RMA number</u>). M3 Cards fitted with Xilinx FPGAs do not need this update.

PROCEDURE:

1. Turn off the power to the System Unit. Disconnect all cables.

2. Place the Micro Lynx System Unit on a static safe workstation. Ground yourself and the workstation anti-static mat.

3. Remove the six phillips screws holding the top cover to the chassis and remove cover. (See Figure 1)

Figure 1. Remove the Top Cover
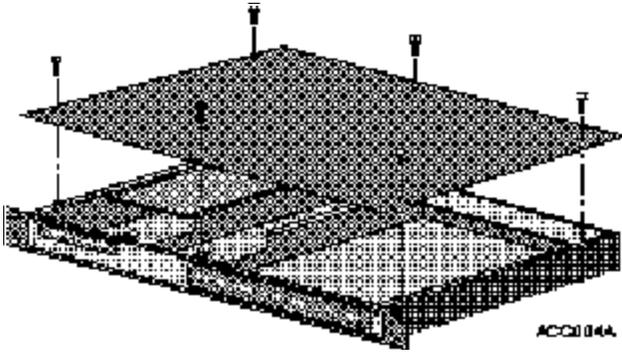
PROCEDURE (continued):

4. Remove the ACG Card, if installed, by removing the two phillips screws securing the card to the bracket. Slide the ACG Card forward until the connectors clear the back panel. (See Figure 2)
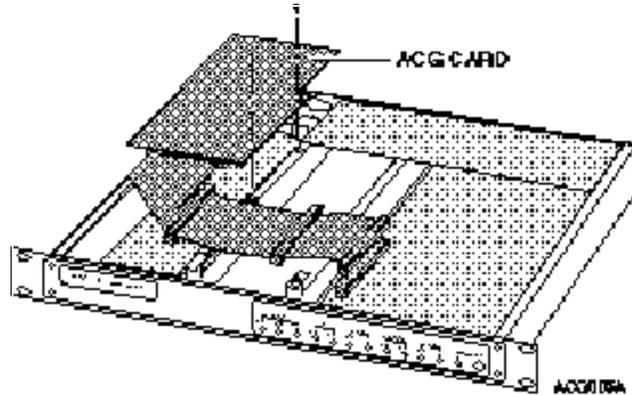
Figure 2. Removing the ACG Card

5. On the M3 Option Card locate U7. (See Figure 3) If the letters "ATT" appear on the IC, contact TimeLine for an RMA number. If the Xilinx logo ($\overline{\Sigma}$) appears on this IC, no replacement is necessary.

Note:

If the FPGA IC in U7 is a Xilinx IC, the failure is unrelated to this Service Bulletin, and must be diagnosed further.

U7
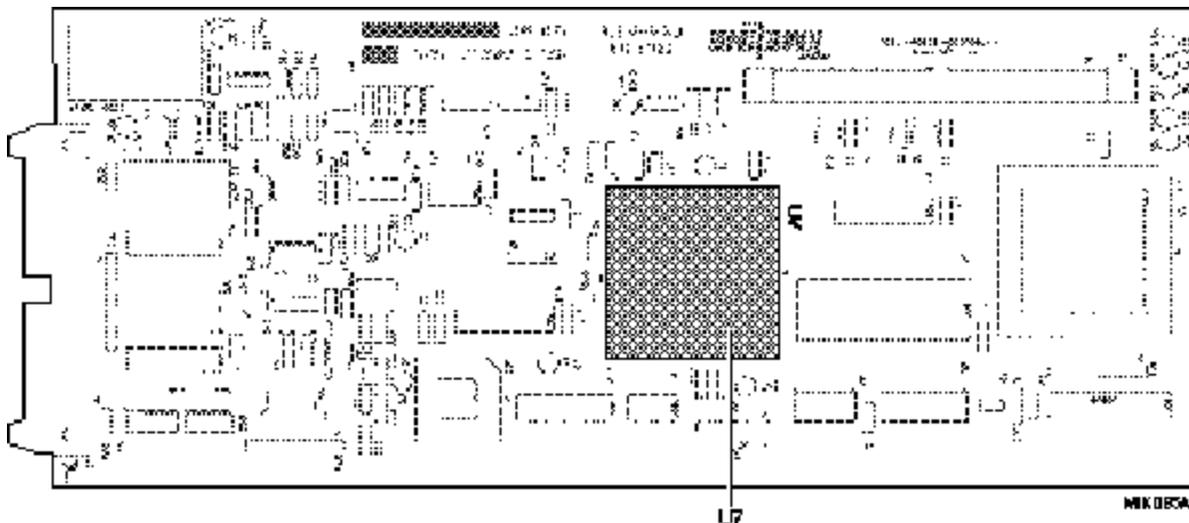
Figure 3. FPGA IC Location

6. Replace the ACG Card. Replace the cover on the System Unit. Insert and tighten the six phillips screws.