

FIRMWARE UPGRADE KIT INSTALLATION GUIDE

EMU-UPGV4.0 (for EMU-830 List 1 through List 6)
Part Number: 1242288



Revision History of This Guide

To order copies of this manual, use document catalog number LTPE-IG-3156-01.

Issue	Release Date	Revisions Made
1	October 25, 2002	Upgrade instructions for version 4.0.

Copyright

October 25, 2002

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USING THIS GUIDE

Two types of messages, identified by icons, appear in text.



Notes contain information about special circumstances.



Cautions indicate the possibility of personal injury or equipment damage.

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OVERVIEW

The WorldDSL™ Exchange Office Management Unit (EMU-830) is designed to allow the field upgrade of EMU-UPGV4.0 firmware through TFTP or XMODEM downloads, or through PROM replacement.

When the existing EMU-830 firmware is Version 1.13 or earlier, the firmware upgrade must be performed by PROM replacement, as described in this document.



EMU-830s running Version 2.0 and later firmware may be upgraded by performing a firmware download. For more information, see [“Internet Access”](#) on page 6.

When HDSL line cards (both local and remote units) are running firmware version 1.13 or earlier, they too must be upgraded for compatibility with the upgraded EMU-830 firmware. Furthermore, HDSL cards running firmware version 2.x should also be upgraded for full compatibility with new features of the latest EMU firmware.



The latest HDSL line unit firmware can be downloaded from the Web site. For more information, see [“Internet Access”](#) on page 6.

UPGRADE KIT CONTENTS

[Table 1](#) lists the contents of the EMU-UPGV4.0 firmware upgrade kit.

Table 1. EMU-UPGV4.0 Firmware Upgrade Kit

Qty	Item
2	EMU-UPGV4.0 Firmware Upgrade PROMs
1	EMU-830 User Manual
1	SNMP MIB Diskette
1	PROM Extraction Tool

PROM REPLACEMENT INSTRUCTIONS

The EMU-UPGV4.0 firmware upgrade for the EMU-830 unit is contained in two replaceable PROM devices. These devices can be replaced in the field to support new features or implement bug fixes. The two PROM devices reside on the EMU-830 card at the locations shown in [Figure 1](#).

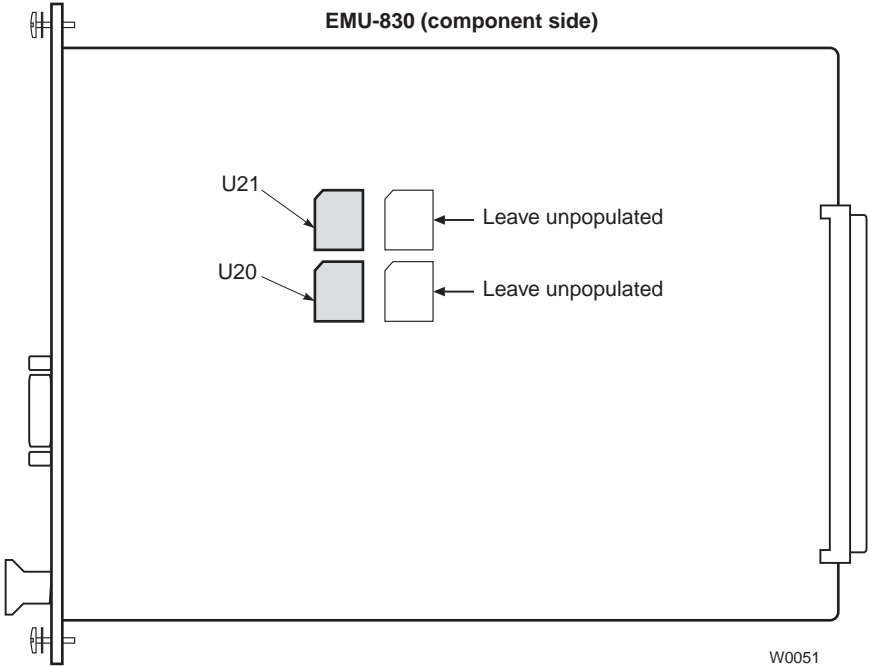


Figure 1. EMU-UPGV4.0 PROM Locations U20, U21

PROM IDENTIFICATION LABELS

The labeling that identifies each PROM is shown in Figure 2.

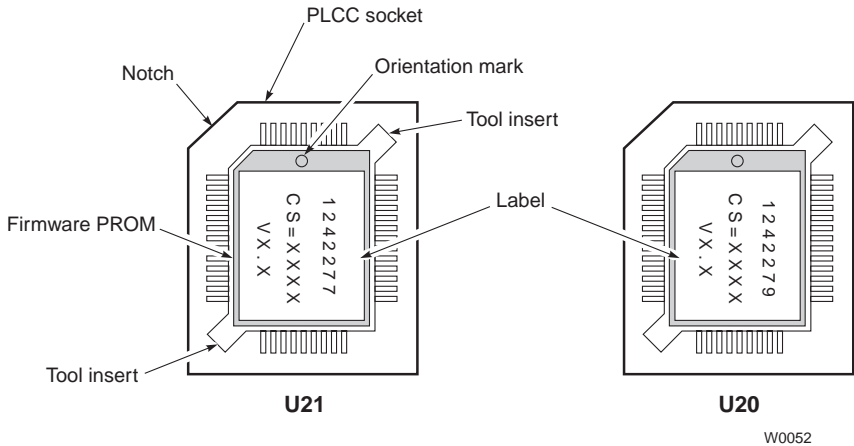


Figure 2. EMU-830 PROM Labeling

PROM REPLACEMENT PROCEDURE

- 1 Use a flat-blade screwdriver to loosen the two screws securing the EMU-830 to Slot 17 of the shelf, then remove the EMU-830 from the shelf.
- 2 Locate socket U21 on the EMU circuit board (see [Figure 1 on page 2](#)).
- 3 Insert a PROM extraction tool into the Tool insert slots on the U21 socket (see [Figure 2 on page 3](#)).
- 4 Gently pry the PROM out of the socket using the PROM extraction tool.
- 5 Locate the U21 replacement PROM shipped with your kit. It is labeled as shown in [Figure 2](#).
- 6 Insert the replacement PROM into the U21 socket.



There is a notch on both the PROM and the socket. Make sure these notches are aligned with each other before inserting the PROM.

- 7 Press the PROM into the socket until it seats firmly.
- 8 Locate socket U20 on the EMU circuit board (see [Figure 1](#)).
- 9 Repeat [Step 3](#) through [Step 7](#) to replace PROM U20.
- 10 Align the EMU-830 circuit board with the black guide lines on the top and bottom edges of shelf-slot 17, then push the EMU board into the slot until the EMU front panel is flush with the front of the shelf.
- 11 Secure the EMU-830 to the shelf with the two retaining screws on the EMU front panel.

APPENDIX A - PRODUCT SUPPORT

ADC Customer Service Group provides expert pre-sales and post-sales support and training for all its products.

Technical support is available 24 hours a day, 7 days a week by contacting the ADC Technical Assistance Center at the number listed below.

<p>Sales Assistance 800.366.3891 ext. 73000 (USA and Canada) or 952.917.3000 Fax: 952.917.3237</p>	<ul style="list-style-type: none"> • Quotation Proposals • Ordering and Delivery • General Product Information
<p>Systems Integration 800.366.3891, ext. 73000 (USA and Canada) or 952.917.3000</p>	<ul style="list-style-type: none"> • Complete Solutions (from concept to installation) • Network Design and Integration Testing • System Turn-Up and Testing • Network Monitoring (upstream or downstream) • Power Monitoring and Remote Surveillance • Service/Maintenance Agreements • Systems Operation
<p>ADC Technical Assistance Center 800.638.0031 (USA and Canada) or 714.730.3222 Fax: 714.730.2400 Email: wsd_support@adc.com</p>	<ul style="list-style-type: none"> • Technical Information • System/Network Configuration • Product Specification and Application • Training (product-specific) • Installation and Operation Assistance • Troubleshooting and Repair/Field Assistance
<p>Online Technical Support</p>	<ul style="list-style-type: none"> • www.adc.com/Knowledge_Base/index.jsp
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<p>Product Return Department 800.366.3891 ext. 73748 (USA and Canada) or 952.917.3748 Fax: 952.917.3237 Email: repair&return@adc.com</p>	<ul style="list-style-type: none"> • ADC Return Material Authorization (RMA) number and instructions must be obtained before returning products.

All 800 lines are toll-free in the USA and Canada.

INTERNET ACCESS

ADC firmware updates and SNMP Management Information Bases (MIBs) for WorldDSL products are available from the Internet.

From our Web site at <http://stele.adc.com/dsl/software/downloads.html>, perform the following steps:

- 1 Click **Software/Firmware/Downloads** on the right side of the Web page.
- 2 Click **Management Unit (EMU) and SNMP MIBs**.
- 3 Select the firmware you wish to download.

CERTIFICATION AND WARRANTY

COMPLIANCE

The shelf, enclosure, and desktop units within the WorldDSL product line have been affixed with the CE mark. This is based on compliance of the complete WorldDSL product line with directive 89/336/EEC as amended by directive 93/68/EEC.

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The transportation charges for shipment of returned products to ADC will be prepaid by the Buyer. ADC will pay transportation charges for shipment of replacement products to Buyer, unless no trouble is found (NTF), in which case the Buyer will pay transportation charges.

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DOCUMENT: LTPE-IG-3156-01



1242962