

Model 281x IP/IPX Boot PROM Upgrade Instructions



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Introduction

This document outlines the procedure for replacing IP Boot PROMs with IP/IPX Boot PROMs in LattisNet® Model 281x 10BASE-T Workgroup Concentrators. This firmware upgrade adds support for IPX networks to the Model 281x concentrator, converting a Model 281x-03 to a Model 281x-05 concentrator. For IPX functionality, you must also use the latest version of the Ethernet Workgroup agent software, version 5.0 or later. The agent software is included as part of Lattis EZ-View™ 2.0 or later.

For information on necessary configuration for network operation of Model 281x concentrators, refer to the *LattisHub 2800 Series 10BASE-T Workgroup Concentrator User's Guide*.

Package Contents

The Model 281x IP/IPX Boot PROM Upgrade Kit contains the following items:

- Two IP/IPX Boot PROMs as follows:
 - P/N 104–304
 - P/N 104–305
- “Option –05” label
- Upgrade instructions

Required Tools

You need the following tools:

- # 2 Phillips screwdriver for removing rack-mounting screws
- # 1 Phillips screwdriver for removing concentrator cover screws
- Industry-standard IC extraction tool or equivalent

Preparation



NOTE: Only qualified technicians should install and service this equipment.

Before you replace the Boot PROMs, perform these steps:

1. Warn network users to take precautions, such as saving their work or logging out of active session applications, before network maintenance is performed.

2. Turn off the power to the concentrator.

Disconnect the power cord, first from the wall outlet and then from the concentrator.

3. If necessary, disconnect network cables from the concentrator.

Be sure all cables are accurately labeled for later reconnection.

4. If the concentrator is installed in a rack, remove it.

5. Remove the concentrator cover:

a. Using a Phillips screwdriver, remove all the screws from the sides of the concentrator and from the edges of the cover at the back (see Figure 1).



NOTE: Do not remove the screws holding the fan in place.

b. Slide the cover toward the *back* of the concentrator (see Figure 2) and then lift it up and away from the chassis. The cover must slide back to release an internal clip along the front edge and to clear the expansion connectors on the back of the concentrator.

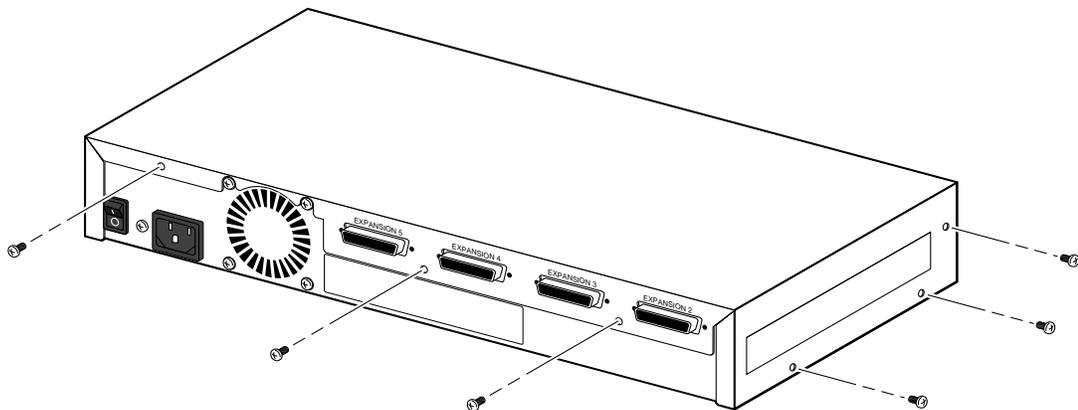


Figure 1. Removing concentrator cover screws

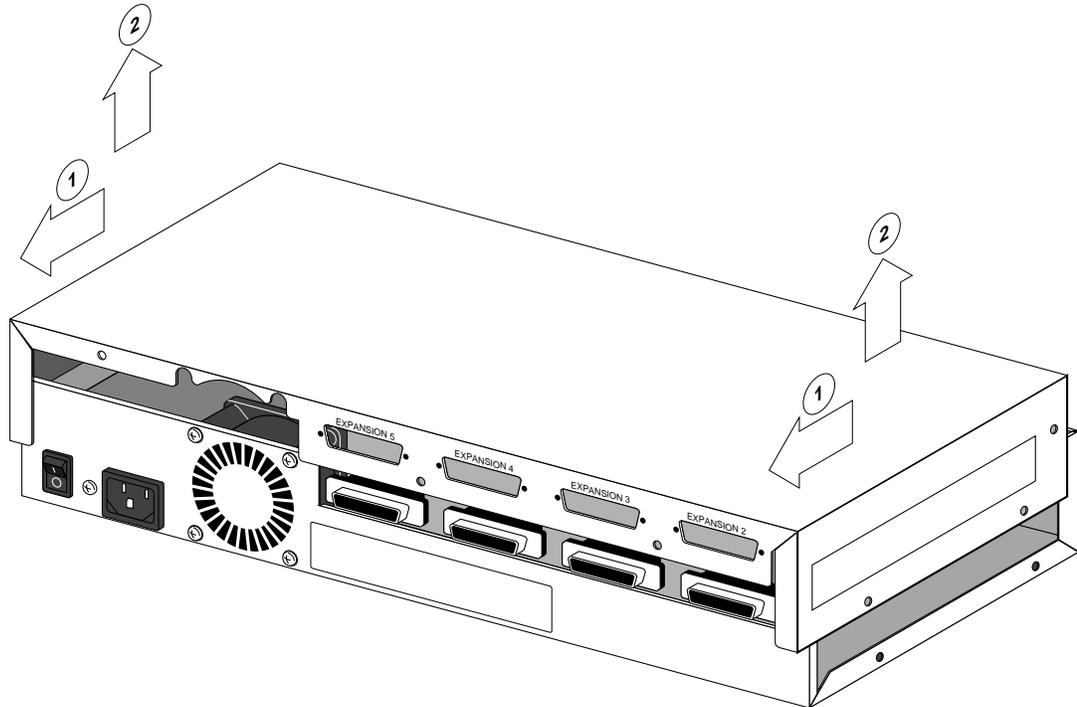


Figure 2. Removing concentrator cover

Boot PROM Replacement



CAUTION: Make sure you discharge any accumulated static or wear a wrist strap when handling PROMs. Otherwise, you risk damaging the components.

To replace the Boot PROMs, follow these steps:

- 1. Find locations U36 and U37, as indicated in Figure 3.**

Use the IC extraction tool to remove the PROMs from those locations.

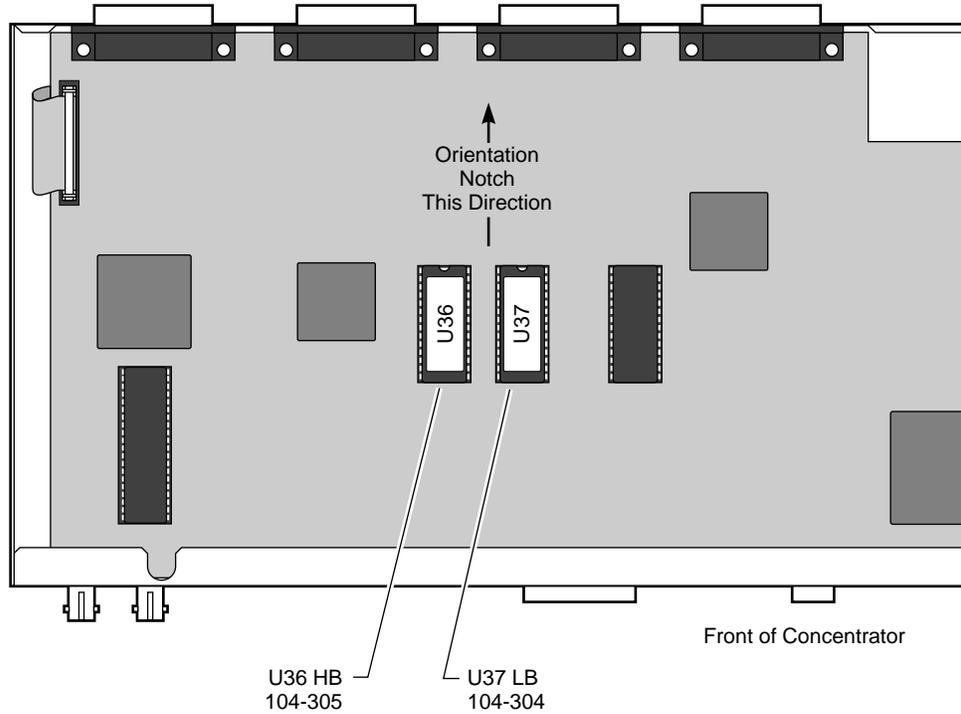


Figure 3. PROM Locations

- 2. Matching the Boot PROM labels to the socket locations printed on the circuit board, install new PROM P/N 104-305 in location U36 and P/N 104-304 in location U37 (see Figure 3).**

Holding each PROM with the notch pointing toward the back panel of the Model 2810, align the pins with the socket and press the PROM into place.

Make sure all PROMs are installed correctly before you apply power.



CAUTION: Applying power to incorrectly installed PROMs can cause damage to the equipment.

Reassembling the Model 281x

After you install the PROMs, follow these steps to reassemble the Model 281x concentrator:

1. **Slip the cover down over the sides of the chassis, making sure you clear the expansion connectors at the back, and slide the cover all the way forward.**
2. **Insert and tighten the cover retaining screws.**

If the concentrator was installed in a rack, replace the rack mounting brackets.

3. **Attach the new option label to the front panel of the concentrator (see Figure 4).**

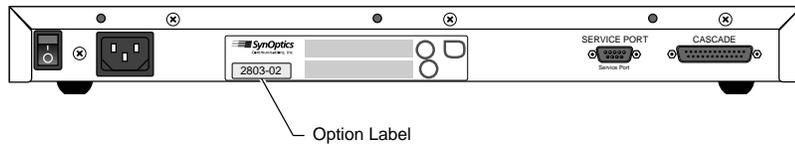


Figure 4. Option Label

4. **If the concentrator was in a rack, reinstall it in the rack.**
5. **Connect the power cord, first to the Model 281x and then to the wall outlet.**

Reconnect network cables as necessary.

6. **Turn the power on.**