Z8937101ZAC

Z89371 ACCESSORY KIT

GENERAL DESCRIPTION

The Z89371 Accessory Kit is specifically designed to enable the Z8932101ZEM Emulator to program the Z89371 OTPs, and to perform in-circuit emulation.

SUPPORTED DEVICES

Packages	OTP Programming	In-Circuit Emulation
44-pin PLCC	Z89371	Z89371
44-pin QFP	Z89371	
40-pin DIP		Z89371

SPECIFICATIONS

Operating Temperature
20°C, ±10°C
Operating Humidity
10%–90% RH (noncondensing)

PACKAGE CONTENTS

Hardware
Z89371 PLCC Programming Adapter (99C0599-001)
Z89371 QFP Programming Adapter (99C0386-001)
40-pin DIP Emulation Pod (99C0368-001)
44-pin PLCC Emulation Pod and cable assembly (93C0039-001)
Emulation Pod Adapter (99C0601-001)
Documentation
Data Sheet

Additional Items Required (Not Supplied)
Z8932101ZEM or Z8932102ZEM Emulator as OTP Programmer
DSP ICE GUI Software, version C3.12A or later

PROGRAMMING ADAPTER INSTALLATION PROCEDURE

1. Ensure that all the necessary hardware and software is properly installed.
2. Plug the appropriate Programming Adapter into the 40-pin DIP socket of the ZEM emulator. Carefully align pin 1 of the adapter to pin 1 of the 40-pin socket.
3. Power up the system.
4. Start the DSP GUI application.
5. Open either the DSP Code Memory window or the Debug window.
6. Select the File menu to download the object code to be programmed.
7. Select the OTP menu item.
8. Make sure the device label faces up. Plug a Z89371 OTP device into the 44-pin ZIF socket of the programming adapter. Carefully align pin 1 of the OTP with the silk screen marker of pin 1 on the programming adapter board. Insert the OTP device gently, and let it sit tight and flat inside the ZIF socket. For QFP devices, close the lid of the socket.
9. Begin programming by clicking the Program button on the DSP GUI.
10. After successful programming, remove the device by pushing the socket down and popping the OTP device out of the socket.

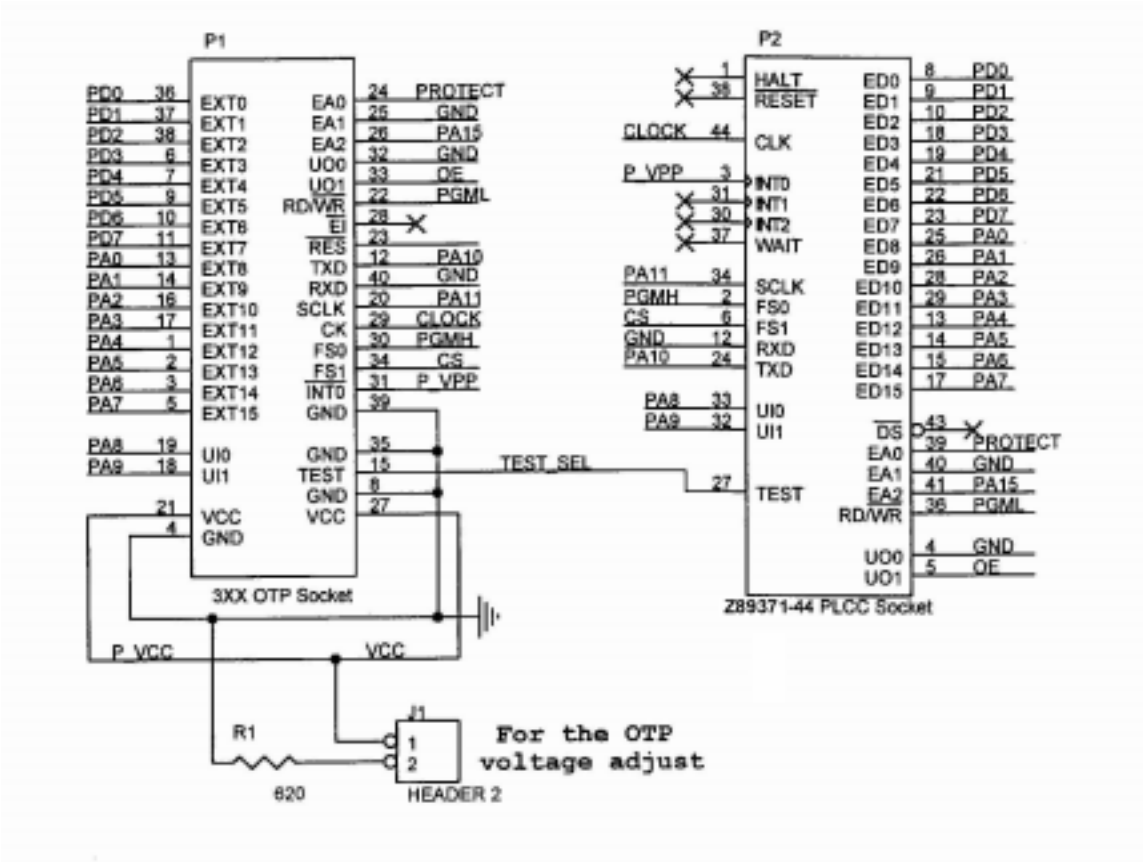


Figure 1. Schematic for Z89371 PLCC Programming Adapter

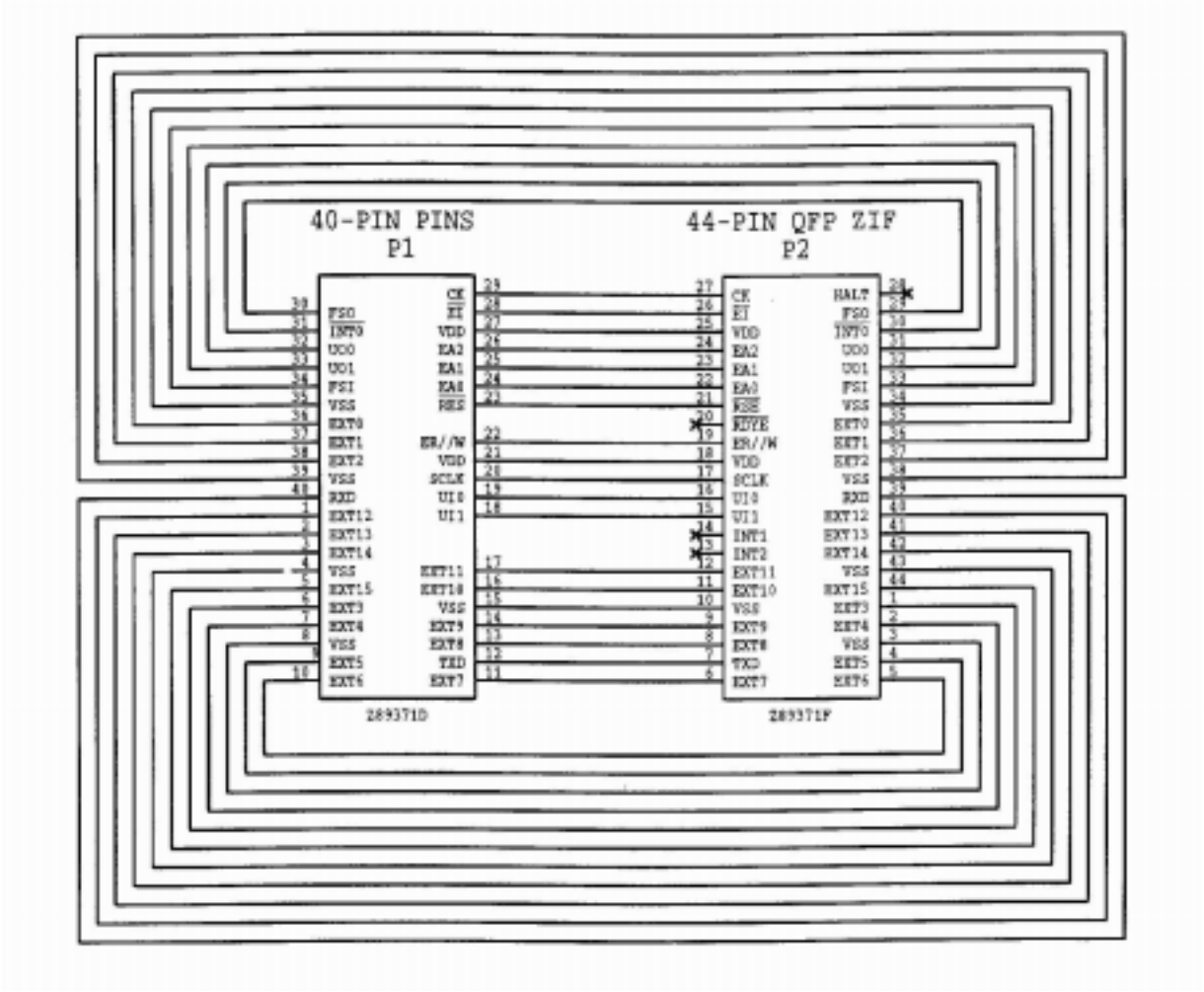


Figure 2. Schematic for Z89371 QFP Programming Adapter

EMULATION POD INSTALLATION PROCEDURE

1. Ensure that all the necessary emulator hardware and software is properly installed. Turn off all power associated with the emulator and target application.
2. Line up the sockets on the Emulation Pod Adapter with the header pins on the Z8932101ZEM. Place P1 on the adapter over P1 on the emulator board, and P2 over P2, respectively. Press the adapter firmly down into place.
3. Plug the Emulation Pod cable into the Yamaichi 40x2 pin connector on the Emulation Pod Adapter.
4. Line up pin1 on the emulator pod with pin 1 on the target application socket. Insert the pod into the socket.
5. Power up the emulator, then press the RESET button.
6. Power up the target application.
7. Open the Debug and the DSP Code Memory Windows.
8. Select the File menu to download the application or object code to be executed during emulation.
9. Begin emulation by pressing the GO button in the GUI Debug window.
10. After successful emulation, first power down the target application board.
11. Remove the emulation pod from the target.
12. Power down the emulator.

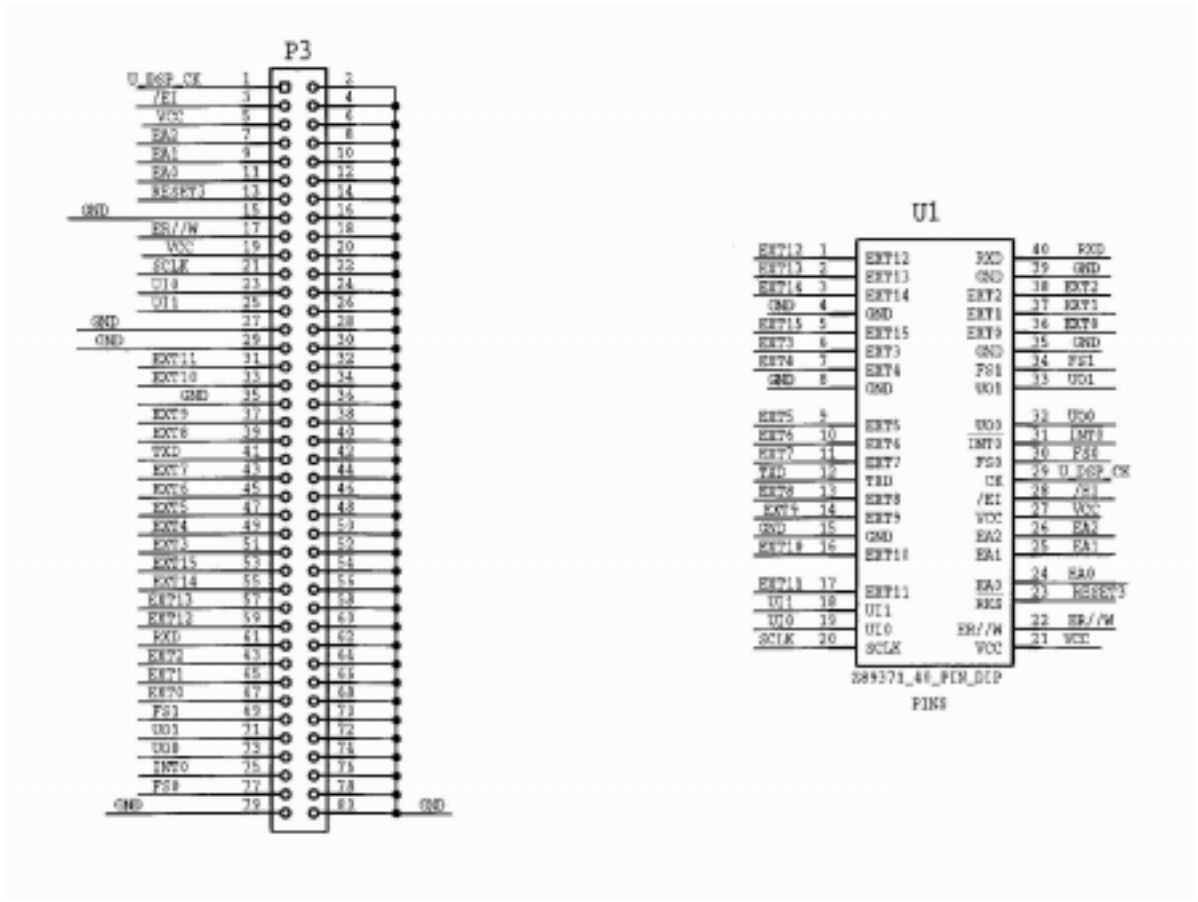


Figure 3. Schematic for Z89371 40-pin DIP Emulation Pod

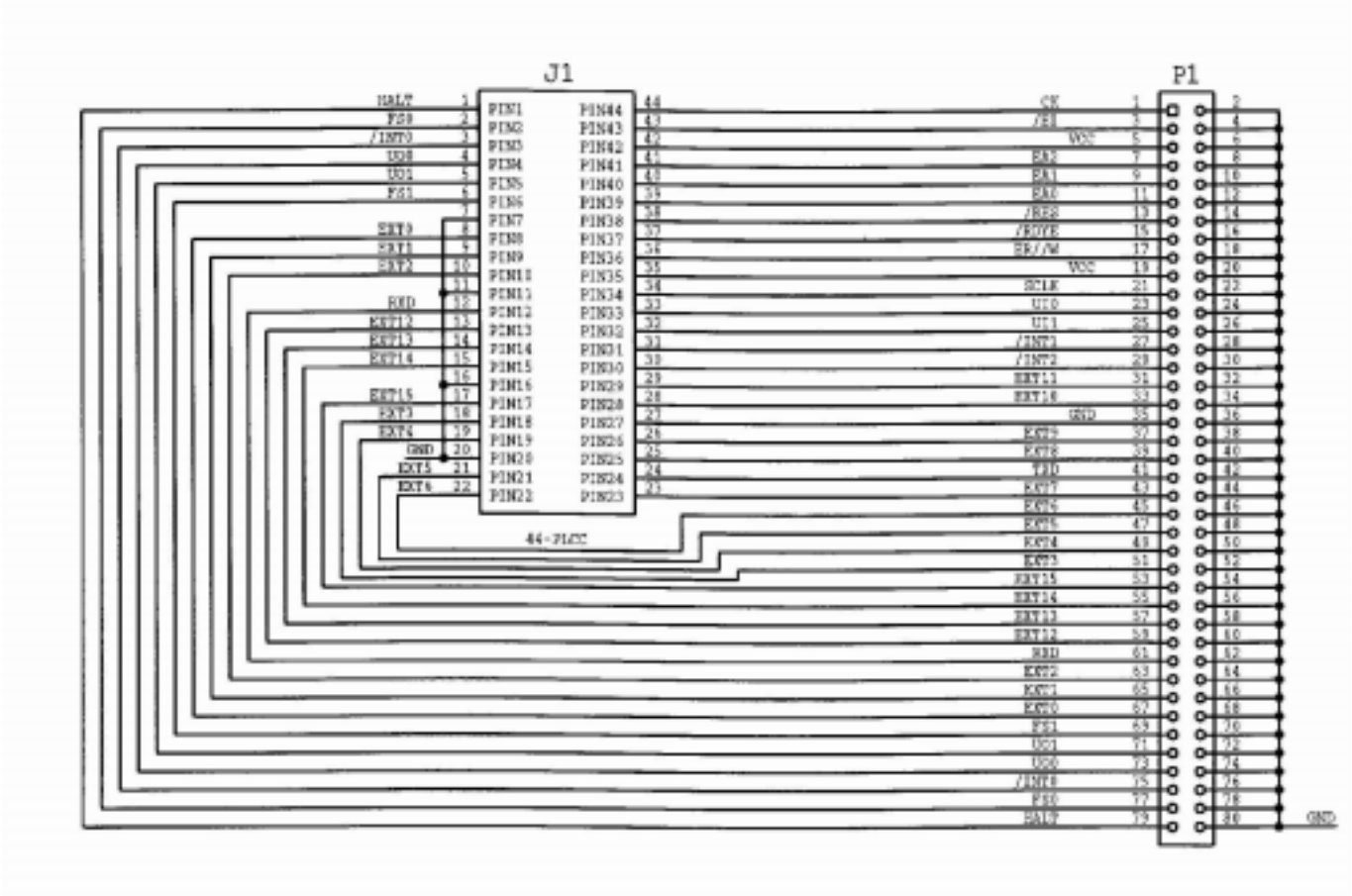


Figure 4. Schematic for Z89371 PLCC Emulation Pod

EMULATION POD INSTALLATION PROCEDURE (Continued)

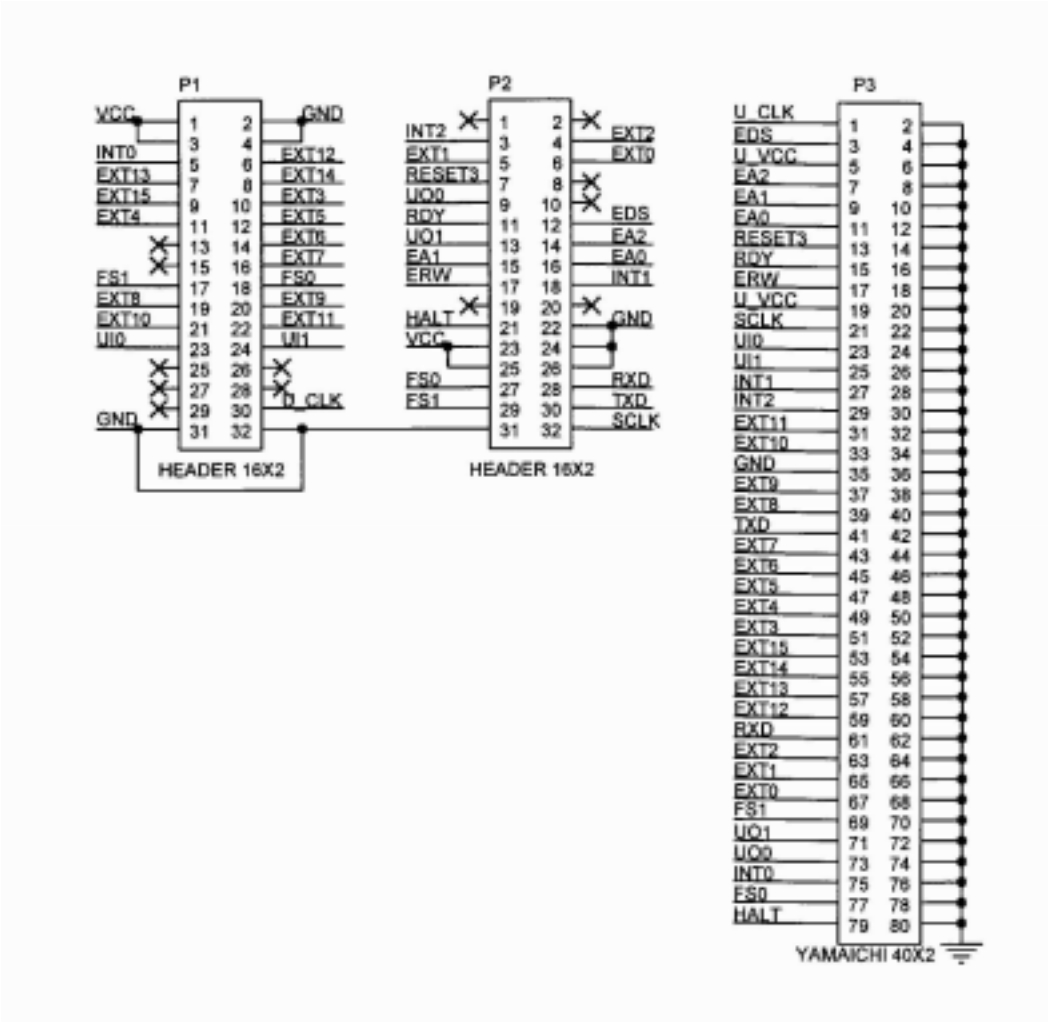


Figure 5. Schematic for Z89321 Emulation Pod Adapter

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