Z8 Encore! XP® F0822 Series Flash MCU Evaluation Kit

Quick Start Guide

Introduction

This Quick Start Guide helps you to get started with the Z8 Encore! XP® F0822 Series Flash MCU Evaluation Kit, and provides instructions on setting up and using the tools to start building designs and applications.

Kit Contents

The kit contents of the Z8 Encore! XP F0822 Series Flash MCU include the following:

Hardware

The hardware included in Z8 Encore! XP F0822 Series Flash MCU Evaluation kit are as follows:

- Z8 Encore! XP F0822 Series Flash MCU evaluation board
- Smart Cable for PC to Z8 Encore! XP F0822 Series Flash evaluation board (DB9 to six-pin male)
- Universal Power supply

Software (on CD-ROM)

The following software are included with the Z8 Encore! XP F0822 Series Flash MCU Evaluation kit:

- Zilog Development Studio II (ZDS II) – Z8 Encore! Integrated Development Environment (IDE) with ANSI C-Compiler
- Sample code
- Acrobat Reader install program
- Document browser

Documentation

The following documents are included in the Z8 Encore! XP F0822 Series Flash MCU Evaluation kit:

- Registration Card
- Z8 Encore! XP technical documentation (on CD-ROM)
  - ZDS II - IDE User Manual

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   – Evaluation Kit User Manual
   – Programmer's Reference Sheet
   – eZ8 CPU User Manual
   – Product Specification
   – Product Briefs
   – Application Notes
   – Flyers
   – Product Line Card

Supported Host Environments

The following system configurations are required on the host PC:

• Microsoft Windows® XP SP1, Windows 2000 SP3, Windows NT 4.0 SP6, Windows 98 SE
• Pentium II/233 MHz processor or higher up to Pentium IV, 2.8 GHz
• 96 MB RAM or more
• 25 MB hard disk space or more
• Super VGA video adapter
• CD-ROM drive for software installation
• One or more RS-232 communication ports

Setting up the Evaluation Board

The PC communicates with the Z8 Encore! XP F0822 Series Flash MCU evaluation board using the serial port of the PC. A Z8 Encore! Smart Cable converts the RS-232 signals into the 3.3 V bidirectional open-drain signal needed to communicate with the On-Chip Debugger of the eZ8.

⚠️ **Caution:** *Always use a grounding strap to prevent damage resulting from electrostatic discharge (ESD).*

Follow the steps below to setup the Z8 Encore! XP F0822 Series Flash MCU evaluation board:

1. Connect the serial port of the PC to the Z8 Encore! Smart Cable DB-9 connector.

2. Connect the Z8 Encore! Smart Cable to the Z8 Encore! XP F0822 Series Flash MCU evaluation board pin header P2.

3. Connect the power supply to the evaluation board at J1 (see Figure 1).

> ▶ **Note:** *Depending up on which build of this kit you receive, it may contain either a universal power supply containing two or four location-specific plug configurations or a 110 V AC wall plug that cannot be modified.*
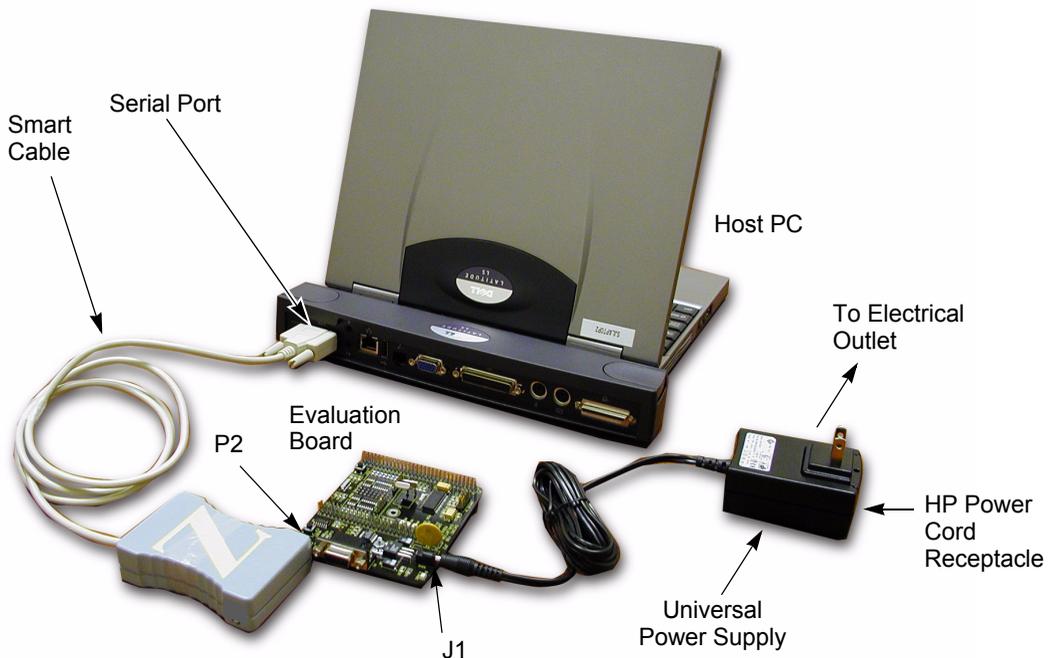

Figure 1. Evaluation Board External Connections

Connecting the Universal Power Supply

There are two methods of connecting the universal power supply: the plug configurations method or the Hewlett Packard power cord method.

Plug Configuration Method

The universal power supply kit features several different plug configurations in one box and the power supply itself in another. The power supply ships with a slide-out plate that must be removed to insert the location-specific plug configurations.

1. Remove the slide-out plate.

2. Select the plug configuration specific to the power requirements of your locale and insert it into the slot that remains after removing the slide-out plate.

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3. Slide the new plug configuration into the slot until it snaps into place.

4. Plug the power supply into an electrical outlet.

Hewlett Packard Power Cord Method

Follow the steps below to connect the Universal power supply by the Hewlett Packard power cord method:

1. Attach a power cord (purchased separately) featuring an AC plug at one end and a Hewlett Packard socket on the other end to the Hewlett Packard power cord receptacle at the plug end of the power supply.

2. Plug the power supply into an electrical outlet.

Installing the ZDS II Z8 Encore! Software

Follow the steps below to install the ZDS II software:

1. Insert the ZDS II CD into the CD-ROM drive of the host PC. The CD launches *DemoShield* automatically and provides a menu to install the product and documentation. Select **INSTALL PRODUCTS** followed by **INSTALL ZDS II** to display the Installation Wizard (see Figure 2).

> **Note:** *Software versions displayed in the figure is for reference only. You may have an updated version.*
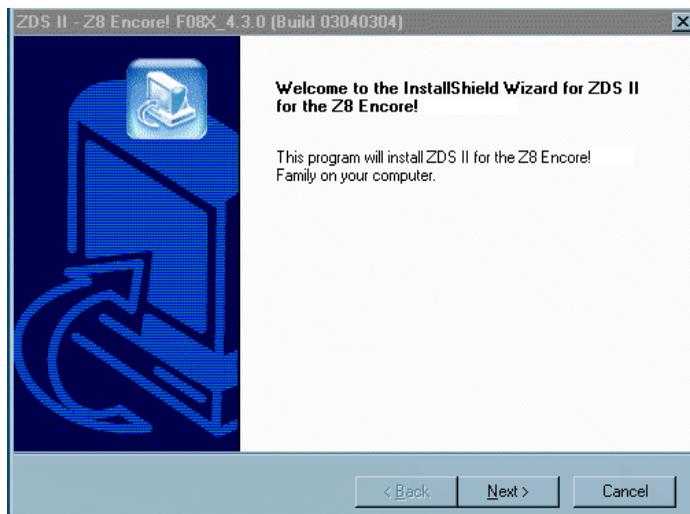

Figure 2. Installation Wizard (Reference Only)

2. Click **Next** to continue with the installation. The License Agreement appears.

3. Click **Yes** to accept the agreement and proceed with the installation.

4. After selecting **Yes**, the Choose Destination Location screen appears. Follow the directions on the screen and choose whether to install ZDS II in the default location or in some other folder. Click **Next**.

5. The Select Program folder screen appears. Follow the directions on the screen and click **Next**.

6. After selecting **Next**, the **Register Your Software** screen appears. Follow the on-screen instructions to complete registration.

7. If you elected not to register at this time, a reminder screen appears after installation asking you to register the product online at www.zilog.com. To register at a later time the registration link to the internet site is found in the ZDS II Help menu.

8. When the installation is complete, the following directory is installed on the host PC, presuming all installation settings remain at their defaults:
   `C:\Program Files\ZiLOG\ZDSII_<product>_<version number>.`

Getting Started Using ZDS II

Follow the steps below to open and use an existing project:

1. Connect the Evaluation board to the host PC's serial communications port using the Smart Cable.

2. Apply power to the Evaluation board.

3. Run the ZDS II Software. By default, the ZDS II program is located in the **Start** menu under:
   `Start → Programs → ZDS II_<product>_<version number>ZDS II <product><version number>.`

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4.   Select **Open Project** from the **File** menu. The **Open Project** dialog box appears. See
     Figure 3.
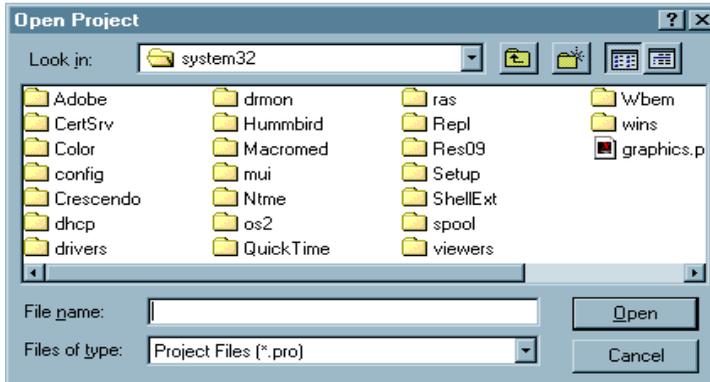
**Figure 3. Open Project Dialog Box (Reference Only)**

5.   Browse to the samples directory:
     c:\Program Files\ZiLOG\ZDSII_<product>_<version number>\Samples\.

6.   Select **Samples**. The samples folder appears (See Figure 4).
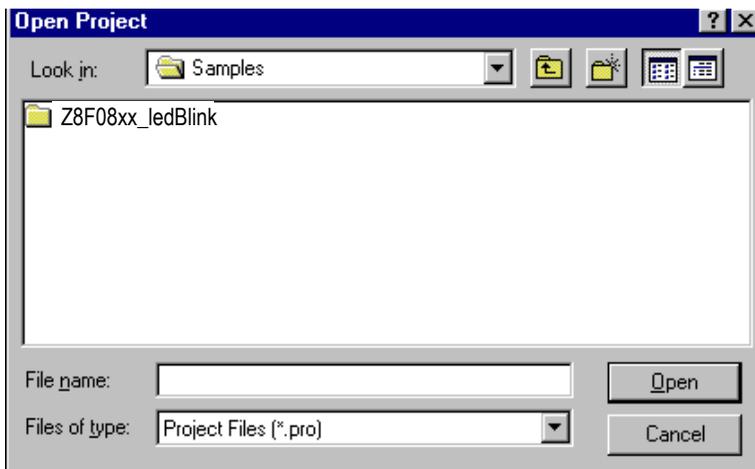

Figure 4. Sample Directory (Reference Only)

7.   Select the Z8F08xx_ledBlink folder and then the src folder to access the project file
     containing ledBlink.pro (See Figure 5).

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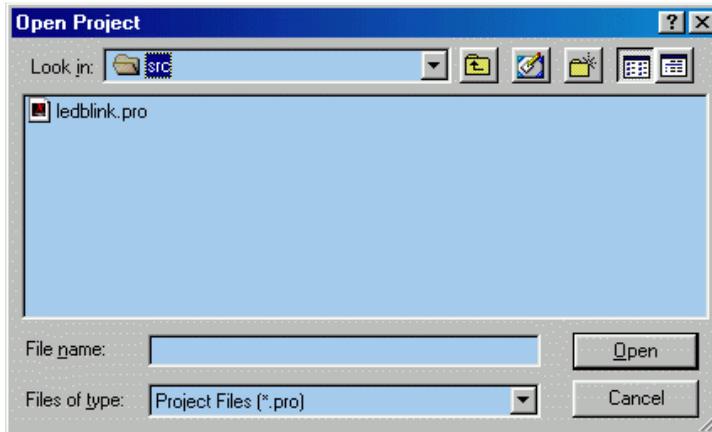
Figure 5. src Folder (Reference Only)

8. Select the `ledblink.pro` file. The initial ZDS II program screen opens (See Figure 6).
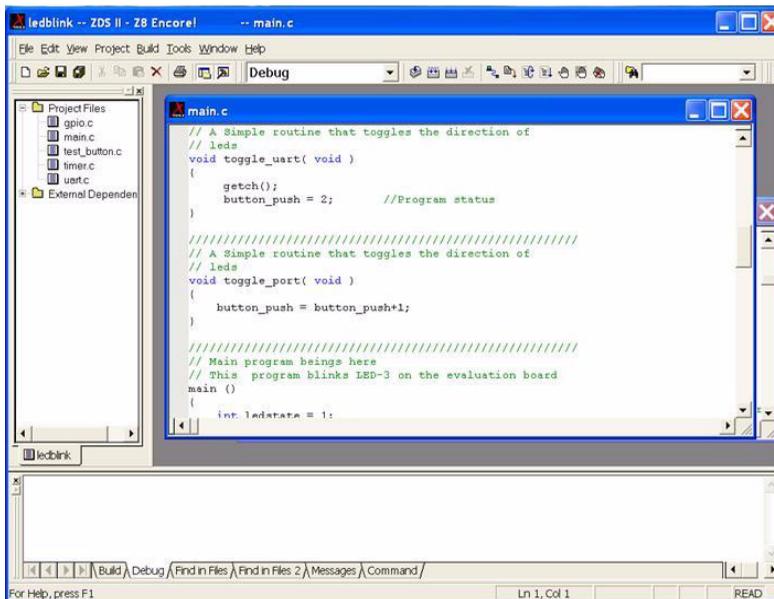

Figure 6. ZDS II Opening Screen (Reference Only)

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9. Click the **Rebuild All** icon and then the **Reset** icon to connect and download the code to the Evaluation board.

Rebuild All Icon

Reset Icon

10. Click **Go** to start the program. The screen changes as displayed in Figure 7.

Go Icon
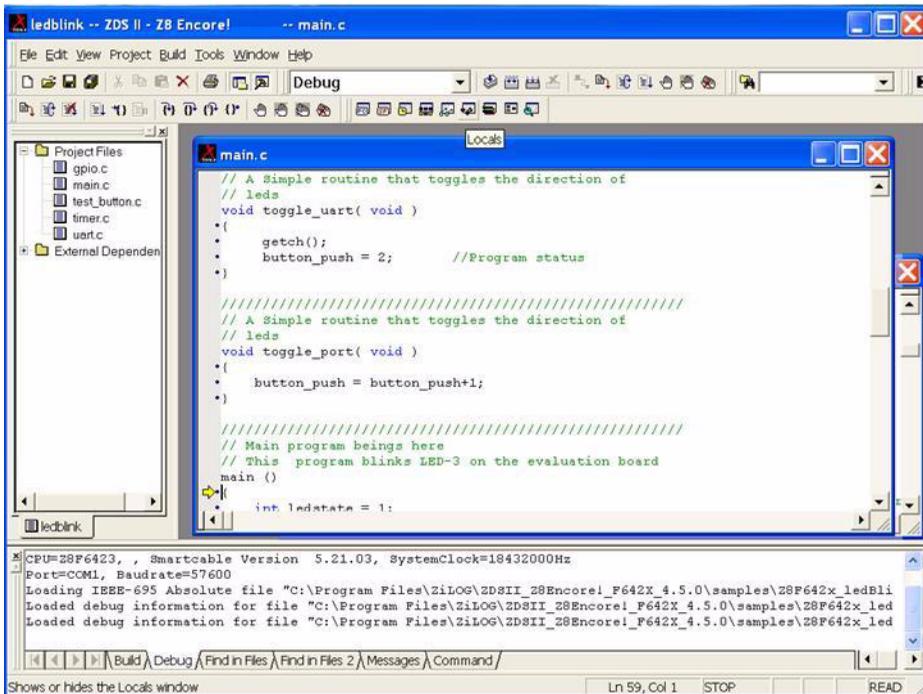
Figure 7. ZDS II Active Screen

The three LEDs begin blinking in sequence. If the LEDs do not blink, start over from Step 3.

Warning: DO NOT USE IN LIFE SUPPORT

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As used herein

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