



eZ80Acclaim![®] Development Kit

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Quick Start Guide

QS002013-0810

Introduction

Thank you for purchasing an eZ80Acclaim![®] Development Kit from Zilog. This quick start guide will guide you through:

- Software installation and online registration
- Hardware installation and configuration
- Running sample projects in SRAM on the eZ80Acclaim![®] Development Kit
- Obtaining software updates from the Zilog web site at www.zilog.com.

► **Note:** A USB Smart Cable, ZUSBSC0100ZACG, is now included for use with eZ80Acclaim![®] development kits. If you have a ZPAK II debug interface module from a previous kit, refer to the readme file included with your ZDS II software and previous kit documentation for details on configuring ZDS II to use the ZPAK II.

Kit Contents

For a complete list of material shipped with the eZ80Acclaim![®] Development Kit, refer to the packing list provided with your development kit.

System Requirements

Table 1 lists the PC requirements for running ZDS II.

Table 1. ZDS II System Requirements

Recommended Configuration	Minimum Configuration
PC running MS Windows XP Professional	PC running MS Windows Win2000–SP4/WinXP Professional
Pentium III/500-MHz or higher processor	Pentium II/233-MHz processor
128-MB RAM	96-MB RAM
110-MB hard disk space	25-MB hard disk space (documentation not installed)

Table 1. ZDS II System Requirements (Continued)

Recommended Configuration	Minimum Configuration
Super VGA video adapter	Super VGA video adapter
CD-ROM drive	CD-ROM drive
One or more RS-232 communications ports	One or more RS-232 communications ports
USB high-speed port	USB high-speed port

Install the ZDS II Software and Kit Documentation

To install ZDS II and the eZ80Acclaim![®] development kit documentation:

1. Insert the ZDS II CD into your computer's CD-ROM drive. *DemoShield* launches automatically. If *DemoShield* does not launch automatically, open the Windows Explorer, browse to your CD-ROM drive, and double-click *launch.exe* to launch the installer.
2. Zilog recommends registering your new ZDS II software. By registering ZDS II, you have access to free technical support, software components, and other tools that only registered Zilog customers have. To register online, go to <http://support.zilog.com/CustomerPortal/>.
3. Click the Install Products button from the main installer menu. From the product installer list you can choose to install ZDS II alone, or both ZDS II and associated documentation. You can also copy the documentation directly from your CD-ROM drive to your hard disk using Windows Explorer. You can also simply read the documentation directly from the CD-ROM itself.

Installing the eZ80Acclaim Development Modules

1. **eZ80L92, eZ80F92, and eZ80F93 modules:** Install the eZ80Acclaim![®] Development module onto connectors JP1 and JP2 of the eZ80Acclaim![®] Development Kit. Ensure the module is properly seated by matching pin 1 of module connectors JP1/JP2 connectors to pin 1 of development kit connectors JP1/JP2.
2. **eZ80190 and eZ80F91 modules:** The eZ80190 and eZ80F91 modules feature two 60-pin connectors. Pin 60 of module connectors JP1 and JP2 mates with connector pin 50 of development kit connectors JP1 and JP2. Pins 1–10 on the module are not connected to the eZ80Acclaim![®] Development Kit.

Installing the USB Smart Cable

Following the instructions below for installing the USB Smart Cable and associated driver software.

► **Note:** The USB Smart Cable has replaced the ZPAK II cable.

Windows Vista-32

1. Connect the USB Smart Cable to the host PC for the first time.

The Found New Hardware dialog box is displayed.

2. Select **Locate and install driver software (recommended)**.

The Driver Software Installation window is displayed, and then the Found New Hardware - USB Smart Cable dialog box is displayed.

3. Select **I don't have the disc. Show me other options**.
4. Select **Browse my computer for driver software (advanced)**.
5. Browse to the driver directory, one of the following:

```
<ZDS II Installation Directory>\device drivers\USB  
<ZDS II Installation CD>\Device Drivers\USB
```

The Windows Security dialog box is displayed.

6. Select **Install this driver software anyway**.
7. When the software has been installed, click **Closed**.

Windows XP

1. Connect the USB Smart Cable to the host PC for the first time.

The Found New Hardware Wizard should activate automatically.

2. In the Wizard, select **Install from a list or specific location (Advanced)**; then click **Next**.

► **Note:** If the Windows Logo testing dialog appears, select **Continue Anyway**.

3. Select **Search for the best driver in these locations** and **Include this location in search**.

4. Browse to the driver directory, one of the following:
 <ZDS II Installation Directory>\
 device drivers\USB
 <ZDS II Installation CD>\Device Drivers\USB

► **Note:** Do not add loose wires on ZPAK ZDI connector.

5. Click **Next**, and then click **Next** again after the appropriate driver is found.
6. Click **Finish** to complete the installation.

Windows 2000

1. Connect the USB Smart Cable to the host PC for the first time.
 The Found New Hardware Wizard should activate automatically.
2. In the Wizard, click **Next**.
3. Select **Search for a suitable driver for my device (Recommended)**; then click **Next**.
4. Select **Specify a location**; then click **Next**.
5. Browse to the driver directory, one of the following:
 <ZDS II Installation Directory>\
 device drivers\USB
 <ZDS II Installation CD>\Device Drivers\USB
6. Click **OK**, and then click **Next** after the appropriate driver is found.
7. Click **Finish** to complete the installation.

Connecting the USB Smart Cable to the eZ80Acclaim! Development Module



Caution: The power to the eZ80Acclaim! Development module must be disconnected or turned off before connecting or disconnecting the USB Smart Cable.

Attach one end of the six-conductor ribbon cable (included) to the USB Smart Cable six-pin DBG connector. See Figure 1. Attach the free end of the ribbon cable to the DBG connector on the eZ80Acclaim! Development module. Ensure that pin 1 on the ribbon cable (indicated by the dark stripe) is aligned with pin 1 on the target connector.



Figure 1. Connecting the Six-Conductor Ribbon Cable to the USB Smart Cable

Applying Power to the Development Board

1. After installing the USB Smart Cable, connect the 9VDC power supply to the eZ80Acclaim![®] Development Kit.
- **Note:** On later boards, the circuit has been modified to use a 6VDC power supply.
2. The Green 3.3VDC LED (D7) illuminates, indicating that power is being supplied to the board.

Running Sample Projects

After installing the ZDS II software and setting up the hardware, you can now open and test the sample software projects for each of the eZ80Acclaim![®] Development Kits. Sample projects are located in the ZDS II sample directories:

```
C:\Program Files\ZiLOG
  \ZDSII_eZ80Acclaim!_<version>\samples\
  <processor family><processor type>_<demo_name>
```

where `<processor family>` represents the eZ80Acclaim![®] product line, and `<processor type>` represents the eZ80190, eZ80L92, eZ80F92, eZ80F93, or eZ80F91 device that powers the development module contained in your kit,

- **Note:** Please refer to the *Zilog Developer Studio—eZ80Acclaim!® User Manual* (UM0144) for details regarding the development of eZ80Acclaim!® software within the ZDS II environment. Also see the user manual and product specifications pertinent to the device and module contained in this kit to review hardware operation in detail.

Running the SRAM LED Demo Project

Using ZDS II, the user downloads the `ledDemo` file to internal SRAM. Follow the steps below to build and run the demo.

1. Launch ZDS II by navigating from the **Start** menu to **Programs** → **ZiLOG ZDS II - eZ80Acclaim! <Version>** → **ZDS II - eZ80Acclaim! <Version>**.
2. From the **File** menu in ZDS II, choose **Open Project**, and navigate to the following file path:

```
c:\Program Files\ZiLOG\ZDSII_eZ80Acclaim!_<Version>\samples\<processor type>_ledDemo\src
```
3. Select the `ledDemo.zdsproj` project within the above file path and click **Open**. A list of source files appears in the **Workspace** panel. Double-click the file `main.c` in the **Workspace** panel to open the file in the ZDS II editor window. Refer to the information in the header of `main.c` for details about the project.
4. Open the **Build** menu and select **Set Active Configuration**.
5. In the **Select Configuration** window, select **Debug-RAM**.
6. Click **OK** to close the **Select Configuration** window.
7. From the **Project** menu in ZDS, select **Settings**.
8. The **Project Settings** dialog box appears. In the **Project Settings** dialog box, select the **Debugger** page.
9. In the **Debugger** page, select `eZ80DevPlatform_<processor type>_RAM` in the **Target** list.
10. In the **Debugger** page, select **USBSmartCable** from the **Debug Tool** drop-down menu.
11. Click **OK** to close the **Project Settings** dialog box.
12. If closing prompts you to rebuild the affected files, click **Yes**. Otherwise, select **Build** from the menu bar and click **Rebuild All**.

13. To run the application, select **Debug** → **Go**. Unless you've made changes to the default settings, the dot-matrix LED display on the eZ80Acclaim!® Development Platform should be illuminated and stepping through a number of display patterns.

Please refer to the *Zilog Developer Studio—eZ80Acclaim! User Manual* (UM0144) for details regarding the development of eZ80Acclaim!® software within the ZDS II environment. Also see the user manual contained in this kit to review hardware operation in detail.

- **Note:** You can obtain a sample Zilog ZTP web application and an embedded security SSL application by following the instructions on your kit registration card to obtain the Zilog ZTP TCP/IP software suite and Network Security Plug-In. Refer to the *Zilog TCP/IP Software Suite Quick Start Guide*, QS0049, and the *ZTP Network Security Plug-In (SSL) Quick Start Guide*, QS0059, for information on installing those applications and running the associated demonstration programs.

Where to Go for More Information

Refer to the *Zilog Developer Studio—eZ80Acclaim! User Manual* (UM0144), the *eZ80F91 Modular Development Kit User Manual* (UM0170), and the ZTP documentation supplied with the Zilog ZTP software for complete details on developing an application for the development kit.



Warning: DO NOT USE IN LIFE SUPPORT

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