Freescale Semiconductor
Quick Start Guide

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MPC5606S-DEMO-V2 Quick Start Guide

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1 Introduction

This document is a step by step guide on how to install the required software to program the MPC5606S-DEMO-V2 and run additional software demos.

2 Run Additional Demos

2.1 Install CodeWarrior Development Studio

A 30 day trial version of the CodeWarrior Development Studio for the MPC55xx and MPC56xx is included. To install the CodeWarrior Development Studio, insert the CodeWarrior CD-ROM into the computer's CD-ROM drive. A startup window automatically appears. Follow the on-screen instructions.

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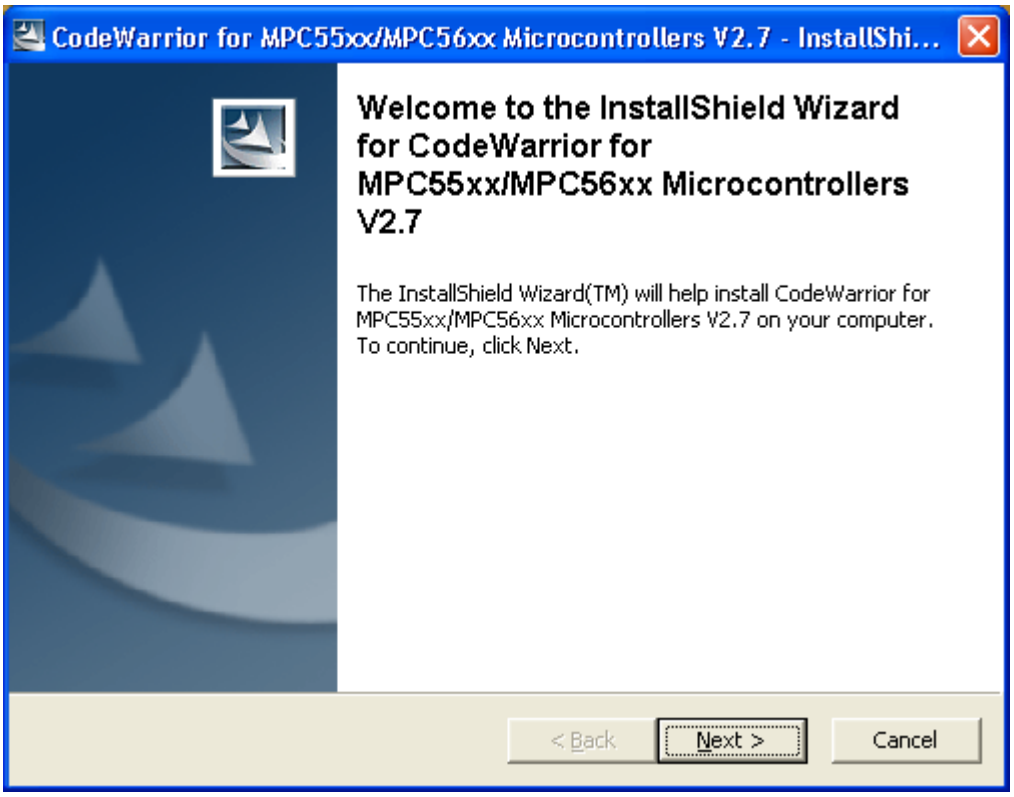

Figure 2-1. Start window

2.2 Install Additional Components

A CD is included with all the documentation, software examples, libraries, and resources to create and run your own projects. To install the Graphic Libraries and additional material for the MPC5606S, insert the MPC5606S-DEMO-V2 software CD-ROM into the computer's CD-ROM drive.

From the CD-ROM drive run the file — **D:\ MPC56xxSLibsV2_0Rxx.exe**

Follow the on-screen instructions. All the software and documentation will be installed in a local folder from your hard disk.

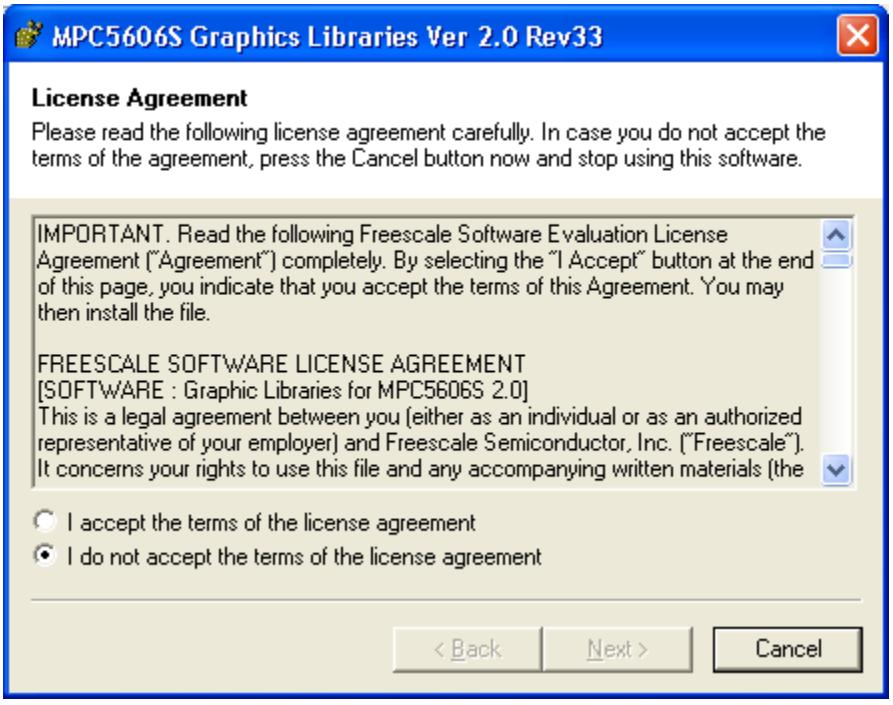

Figure 2-2. Graphics Libraries

2.3 Connect the P&E USB Multilink Debugger to the PC

Insert one end of the USB cable into a free USB port on your computer. Insert the other end of the USB cable into the USB connector of the P&E USB Multilink Debugger.

Figure 2-3. USB cable and USB connector

2.4 Found New Hardware Wizard

The first time the USB Multilink is connected to the PC; Windows recognizes the device and starts the **Found New Hardware Wizard** procedure, requesting to specify the driver to use for the device.

The procedure is slightly different on each version of Windows. On Windows XP, select the **Install the software automatically** option and click on the **Next** button.

Do not specify any drive or optional location where to look for the driver, because it has already been installed on your hard disk by the CodeWarrior Development Studio for MPC55xx and MPC56xx **Installation** setup.

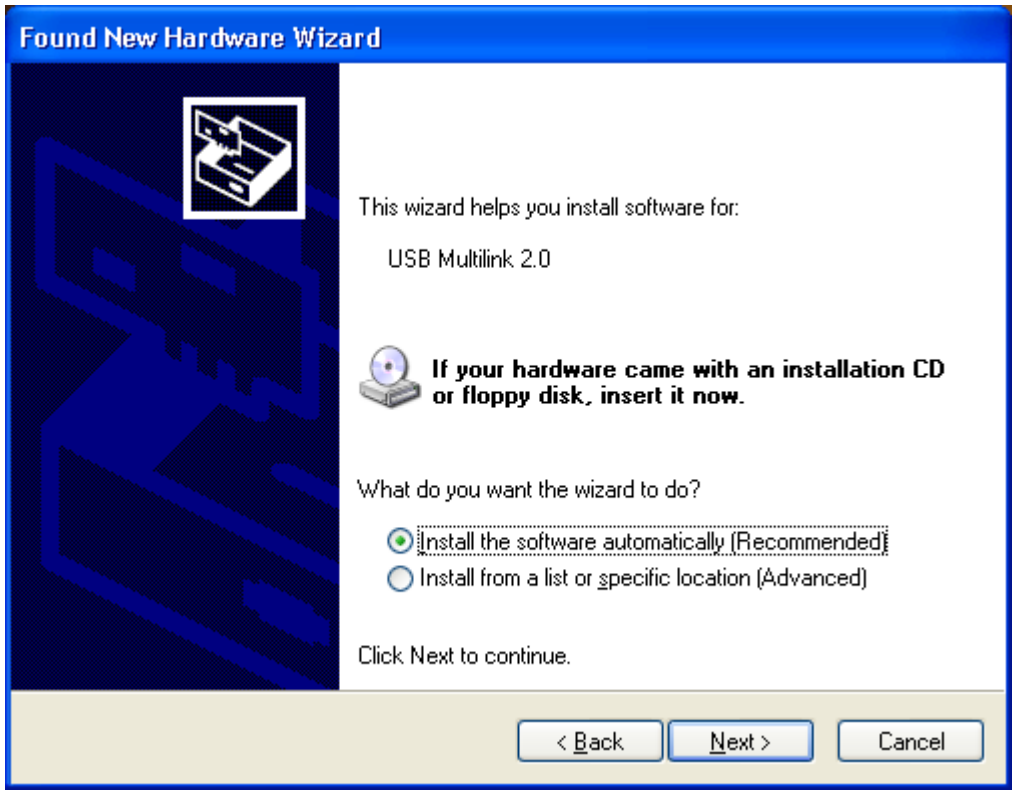

Figure 2-4. Install Window

2.5 Run CodeWarrior and Open the Example

Start CodeWarrior for the MPC55xx and MPC56xx IDE by selecting **Start > Programs > Freescale CodeWarrior > CW for MPC55xx, MPC56xx 2.7 > CodeWarrior IDE**. The CodeWarrior IDE will open.

From the main menu, choose **File > Open**.

Select the CW_MPC5606S_Lab0.mcp workspace file that is located in the Graphics Libraries installation folder at \ppc\CW_MPC5606S_Lab0 directory.

Click **Open**

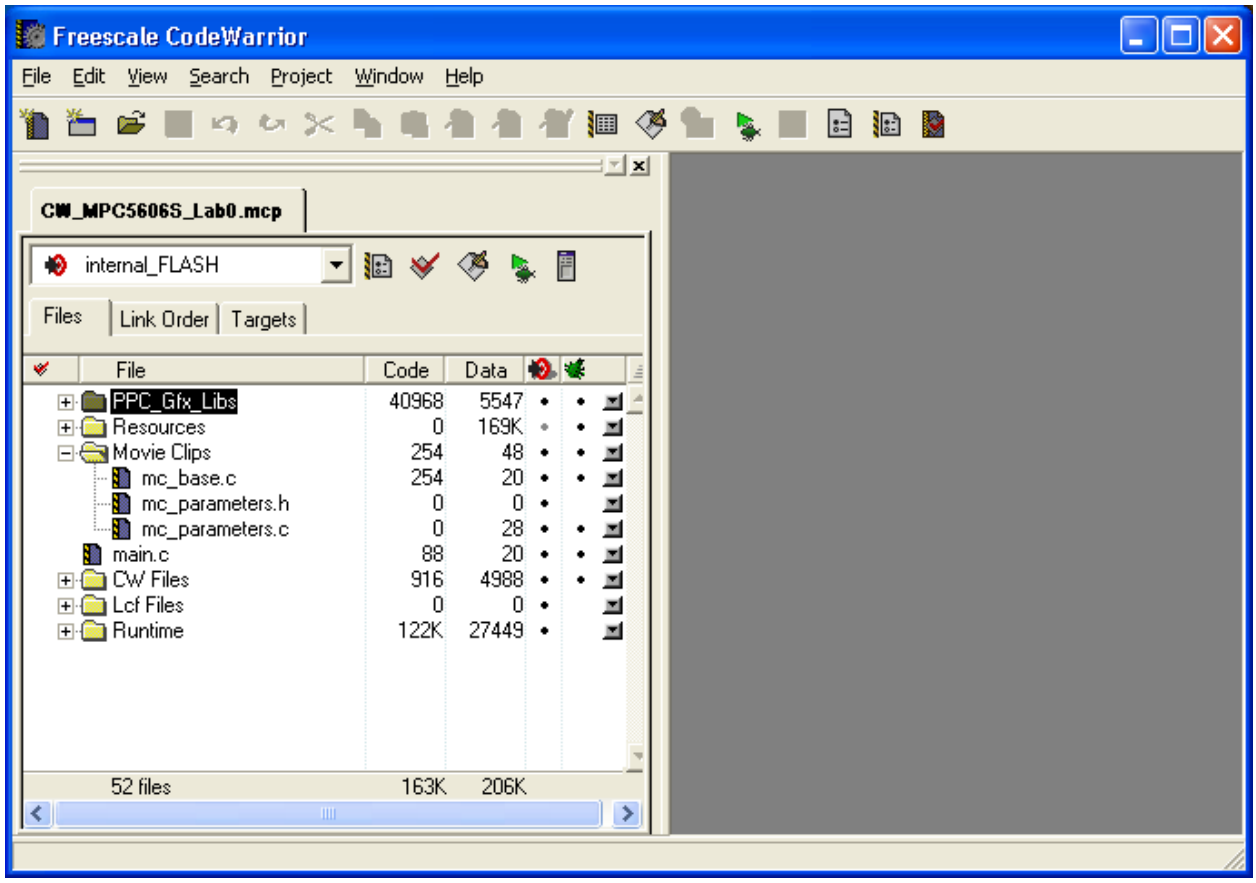

Figure 2-5. CodeWarrior IDE

2.6 Connect the P&E USB Multilink Debugger to the MPC5606S-DEMO-V2

Connect the ribbon cable from the P&E USB Multilink Debugger into the MPC5606S-DEMO-V2 JTAG port J55. Take care of the pin numbering because the red side of the ribbon cable must be aligned to pin 1 on the JTAG port. Connecting it wrongly may damage the board.

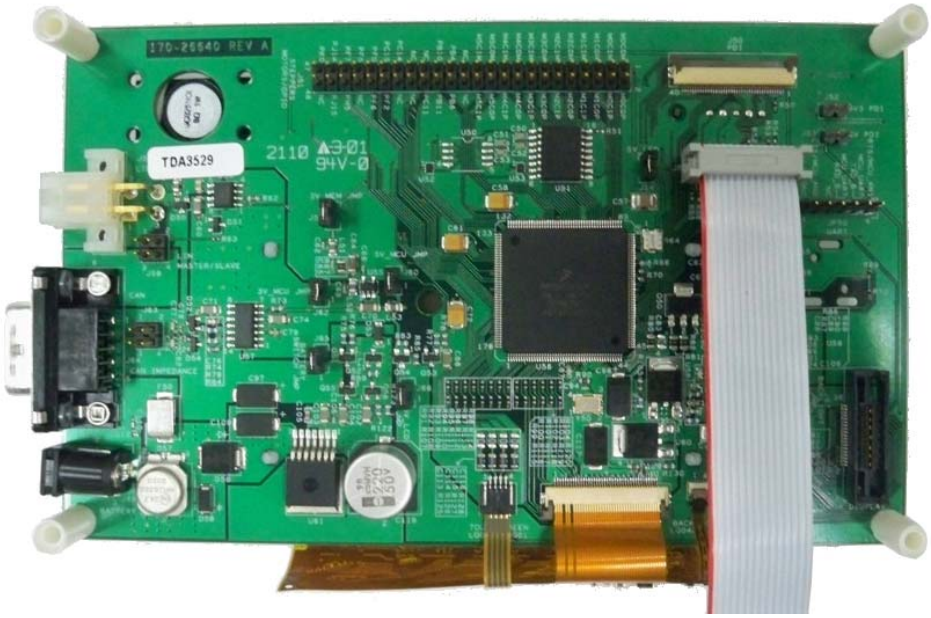

Figure 2-6. Debugger connection to the board

2.7 Start a Debugging Session

From the main menu, select **Project > Debug.** This compiles the source code, generates an executable file, and downloads it to the demo board. A new debugger environment opens.

It programs the internal memory of the microcontroller.

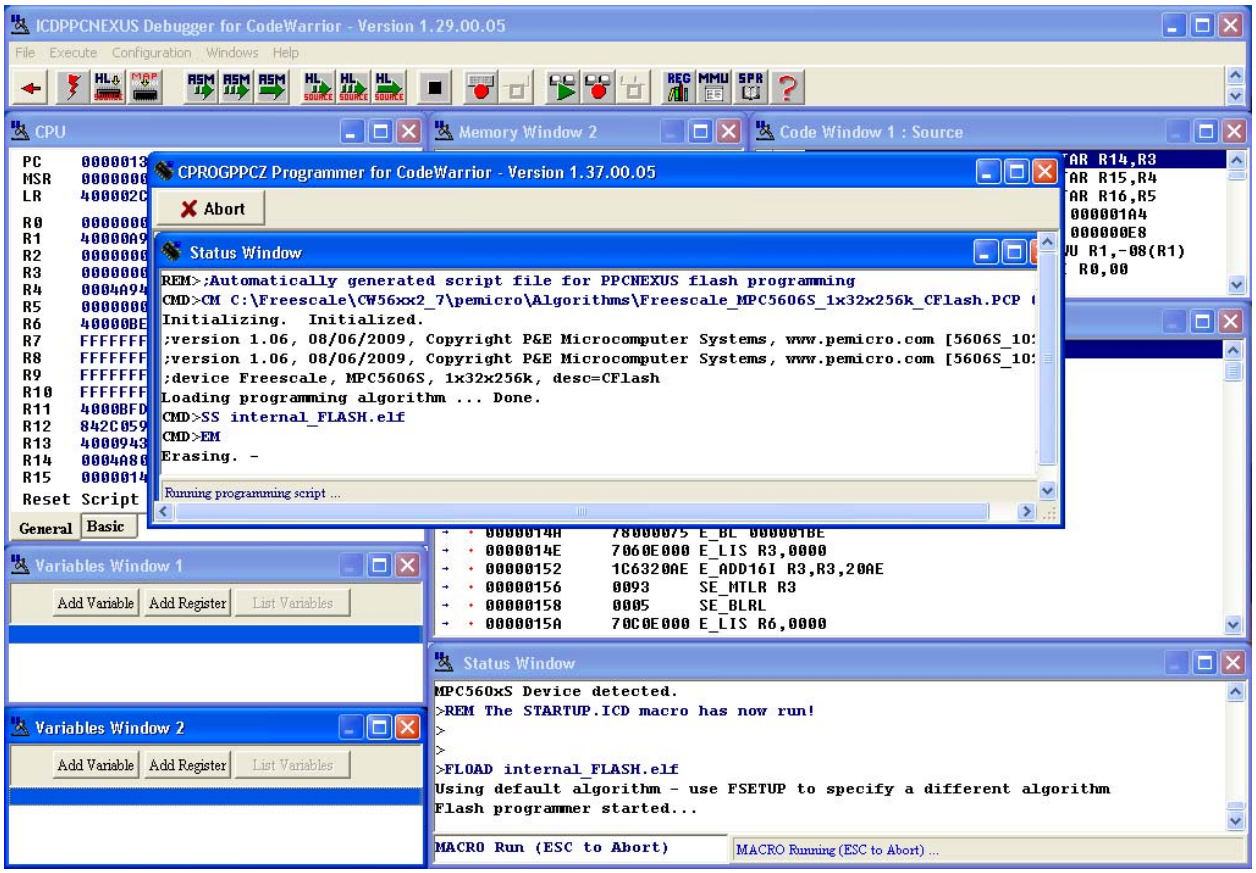

Figure 2-7. Debugger window

2.8 Run the Example

From the main menu in the Debugger window, select **Execute > Go**. The program will then be executed and some images will be displayed on the FTF display. This means you have successfully programmed a project on your board.

Figure 2-8. Running example

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