

M52259DEMOKIT QUICK START GUIDE

Introduction and Default Settings

This quick start guide will show how to connect the target board to a host PC, install the correct version of CodeWarrior Development Studio, and execute a simple demonstration program loaded in FLASH memory.

Install CodeWarrior Development Studio for ColdFire v7.1, Special Edition

The M52259DEMOKIT board ships with CodeWarrior Development Studio for ColdFire Architectures, a complete Integrated Development Environment (IDE) that provides a highly visual and automated framework to accelerate the development of the most complex embedded applications. To install the IDE, refer to the "CodeWarrior Development Studio" DVD case and follow the steps in the included Quick Start Guide.

CodeWarrior Development Studios for Microcontrollers must be properly installed before attempting to connect the target board to the host PC. Otherwise, the necessary USB drivers will not be available and the host PC will not recognize the board.

To Launch the Demo Program:

The M52259DEMOKIT ships with a bootloader preloaded into on-chip FLASH memory. On power-up, the demo application causes LED4 to flash at approx 1Hz.

1. Connect the included 6-in-1 USB cable between an open USB port on the host PC and the mini-USB connector at J3 on the target board. This will power the target.
2. Notice LED1, LED2, and LED3 turn on solid. LED4 begins to blink in an alternating pattern. This pattern repeats until power is removed.
3. Press SW1 while pressing and releasing the RESET switch. This will cause a removable disk to load under Windows
4. Open My Computer. Under **Devices with Removable Storage**, notice a new Removable Disk (<drive:>) has loaded.
5. Open the removable disk and find the file READY.TXT. This file will have 0 bytes.
6. To flash new application code to the target, simply drag and drop the required object file to the removable drive.

To Load a New Demo Program:

1. Unzip the application file MCF5225x Bootloader_1.1.zip found in the Axiom\M51159DEMO directory of the Axiom Support CD.
2. Navigate to the directory where the zip file decompressed. Locate the application directory at <path>\MCF5225x Bootloader_1.1\MCF5225x Bootloader_1.1\Bootloader USB MSD\MCF5225x_Bootloader_with_Application\obj.



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3. Drag and drop M52259DEMO_Flash_Bootloader_Blinks_LED1.S19 onto the removable drive open in My Computer.
4. When the file name shows up in My Computer, press the RESET switch
5. Notice that LED1 blinks at approx 1 Hz.
6. To access the bootloader again, simply press SW1 while pressing and releasing the RESET switch

To Reload the Bootloader Application:

1. Connect the A/B USB cable between the host PC and the type B USB connector at J6. The 6-in-1 USB cable is not required.
2. Follow on-screen prompts to install the necessary USB drivers
3. Open CodeWarrior for ColdFire, v7.1. Select Tools | Flash Programmer
4. Ensure Target Configuration is selected in the left-hand pane (LHP).
5. In the right-hand pane (RHP) set Connection box to ColdFire v2-v4 JM60OSBDM. Click on Load Settings... button and select MCF52259_INTFLASH.xml.
6. In the LHP, select Erase/Blank Check. Press the Erase button in the RHP to erase the target device. Press the Blank Check button to ensure the device is erased.
7. Select Program/Verify in the LHP
8. In the RHP, click the Browse... button and navigate to <path:>\MCF5225x Bootloader_1.1\MCF5225x Bootloader_1.1\Bootloader USB MSD\MCF5225x_Bootloader_with_Application\obj
9. Select the bootloader file M52259DEMO_Flash_Bootloader_Blinks_LED1.S19
10. Click Program to load the target. Click Verify to ensure the application code loaded properly.
11. Press the RESET button on the M52259DEMOMCU board. Notice LED1 begins to blink.

Troubleshooting

If the demonstration application fails to function as indicated above, please follow the steps below before contacting Freescale Semiconductors. Please refer to the Technical Information Card (TIC) card included in the M52259DEMOKIT kit for contact information.

- Ensure CodeWarrior for ColdFire, v7.1 is properly installed.
- Reload the Bootloader Application, refer to procedure above
- Close and restart CodeWarrior between each attempt to flash the target device.

If the above Troubleshooting tips fail to correct the problem, please contact Freescale Semiconductors for further assistance. Refer to the included in the kit for contact information.