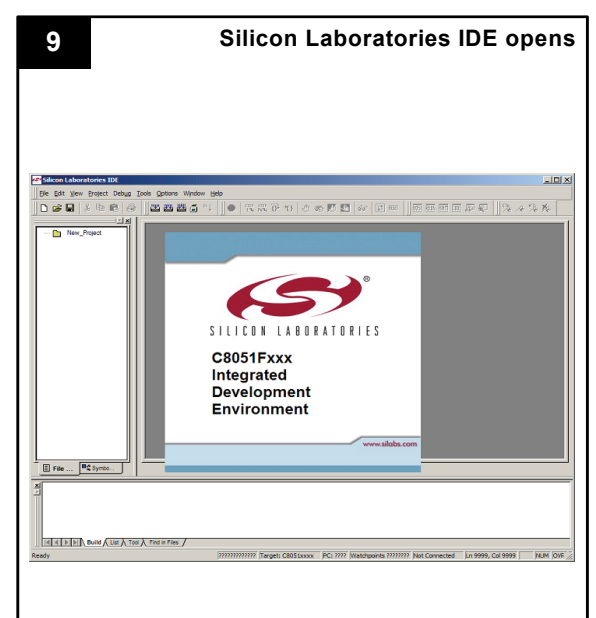
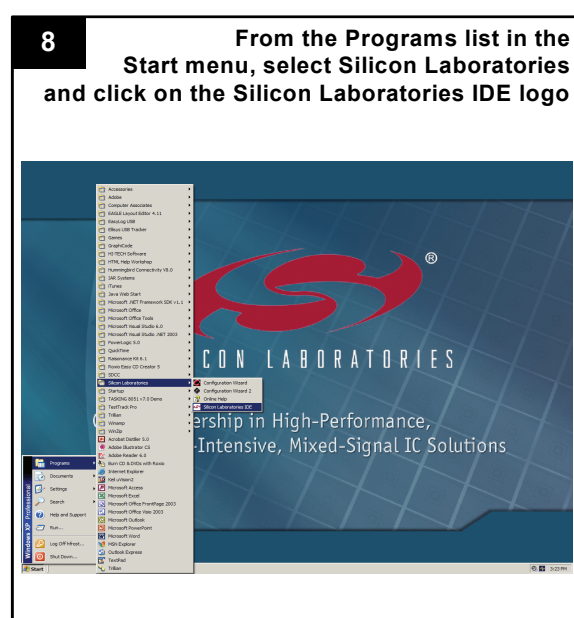
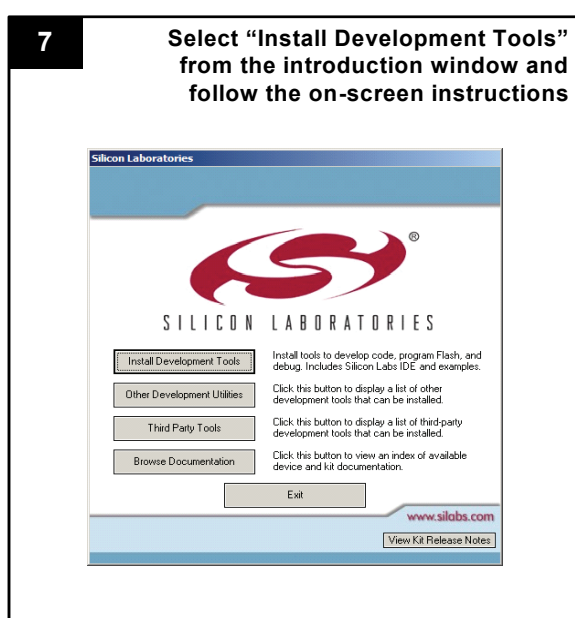
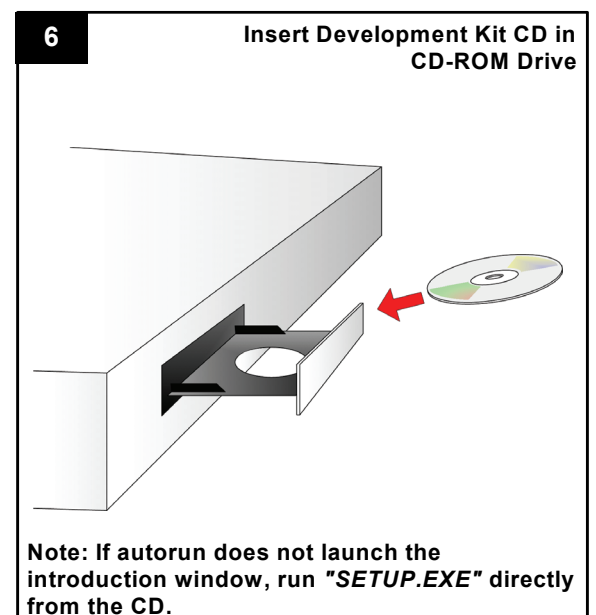
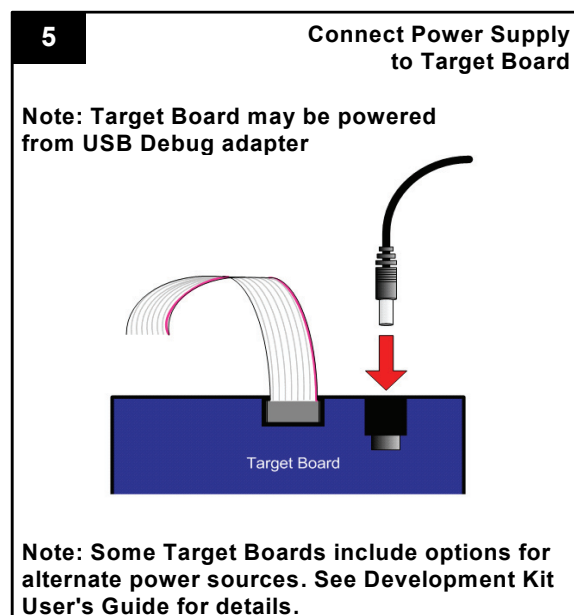
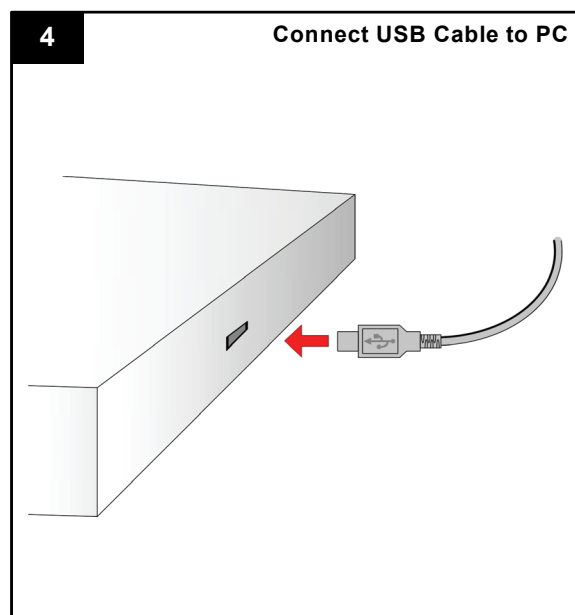
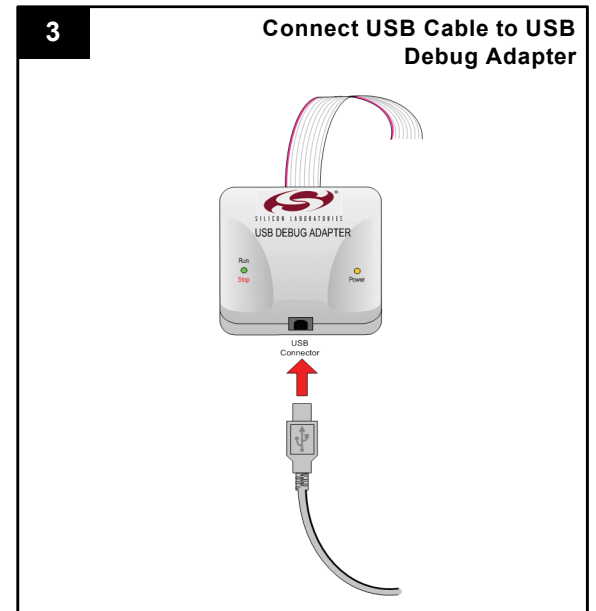
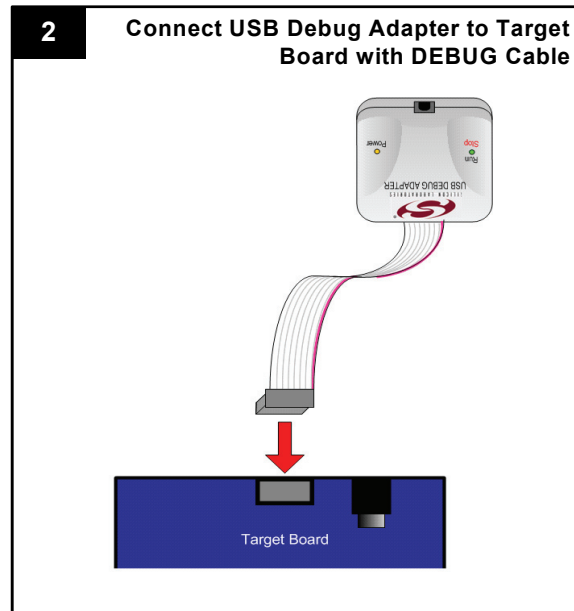
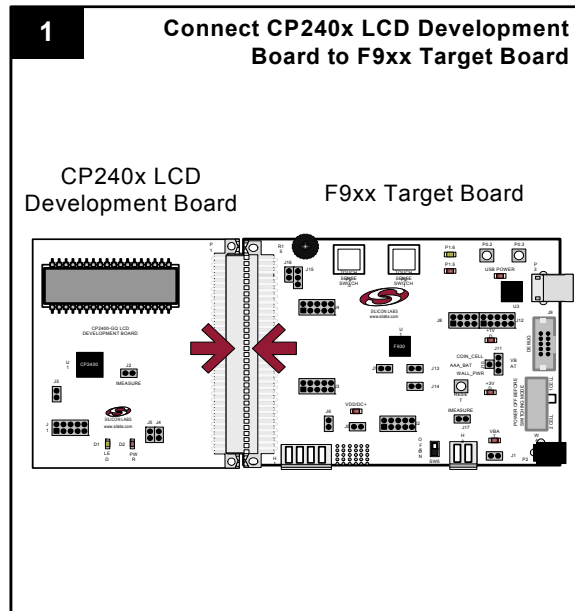


CP240x LCD DEVELOPMENT KIT QUICK-START GUIDE

Installation



Example Program

10

Select "Connection Options..." from "Options" menu

Connection Options

Serial Adapter

COMPORT: COM1

Baud Rate: 115200

Check port status

USB Debug Adapter 1.7.0.0

Adapter Selection: EC30001B133

Power target after disconnect

Debug Interface

JTAG JTAG Chain Configuration

C2

OK

Cancel

Select USB Debug Adapter

Select C2 Debug Interface

11

Connect to Target Board

Silicon Laboratories IDE

File Edit View Project Debug Tools Options Window Help

New_Project

12

Select "Download Object File..." from "Debug" menu

Silicon Laboratories IDE

File Edit View Project Debug Tools Options Window Help

Download Object File...

Go Alt + G, F5

Step Alt + 1, F11

Step Into F12

Step Over F10

Run to Cursor F8

Breakpoints... Alt + B

Watchpoints... Alt + W

Refresh Alt + R

Reset Ctrl + R

Download

Select download Filename:

LCD_Example\CP240x_Digits_Example.hex

Browse

Erase all code space.

Download

Next, click Browse and select the hex file "CP240x_Digits_Example.hex" located at "C:\SiLabs\MCU\CP240x\CP240x_LCD_Example"

Click Download

13

Execute example program Digits "01234567" will be shown on the CP240x LCD Development Board

Silicon Laboratories IDE

File Edit View Project Debug Tools Options Window Help

New_Project

14

Stop execution of example program

Silicon Laboratories IDE

File Edit View Project Debug Tools Options Window Help

New_Project

15

Application Note 104: Integrating Keil 8051 Tools Into the Silicon Labs IDE has information on unlocking the evaluation compiler from a 2k code size limit to a 4k limit. It can be found on our application notes page here:

https://www.silabs.com/products/mcu/Pages/ApplicationNotes.aspx

The Keil Toolset Serial Number is needed and can be found on the Dev Kit CD

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Open Project file "CP240x_LCD_Example.wsp" located at "C:\SiLabs\MCU\CP240x\CP240x_LCD_Example\Source"

Silicon Laboratories IDE

File Edit View Project Debug Tools Options Window Help

New_Project

Open Recent...

CP240x_LCD_Example.wsp

17

Click on "main.c" to open source file

Silicon Laboratories IDE - [main.c]

File Edit View Project Debug Tools Options Window Help

CP240x_BusInterface.h

CP240x_BusInterface_SMBUS.c

CP240x_BusInterface_SPI.c

CP240x_Core.c

CP240x_def.h

CP240x_lcd.c

lcd.h

lcd_config.h

lcd_const.h

lcd_portdef.h

lcd_preprocessor.h

VME930_alphanumeric_font.c

Source

lcd_callback.c

main.c

power.c

main.c

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Program Description:

This program is a Template for 'F93x

Target: C8051F93x-C8051F90x

Tool chain: Generic

Command Line: None

Release 1.0

-23 JUL 2009

Includes

#include <compiler_def.h>

#include <C8051F930_def.h>

#include <C8051F930_lib.h>

#include "LCD_LIB\lcd_lib.h"

Build and Download the Program

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Follow the instructions in the C2400 and CP2401 Development Kit User's Guide to modify the project and run other included examples

The User's Guide can be found under "Browse Documentation" in the menu on Step 7 of this Quick Start Guide

- If you are having trouble installing and/or using the development kit, please use the following support resources:
- CP2400 and CP2401 Development Kit User's Guide (click "Browse Documentation" from the CD introduction window)
 - Application Note "AN104: Integrating Keil 8051 Tools Into the Silicon Labs IDE" (contains instructions for obtaining the 4 k limited version of the Keil toolset)
 - Latest versions of Application Notes can be found at <https://www.silabs.com/products/mcu/Pages/ApplicationNotes.aspx>
 - MCU Knowledgebase (available at www.silabs.com → SUPPORT)
 - Contact an Applications Engineer using the online information request form (available at www.silabs.com → SUPPORT → Contact Technical Support).