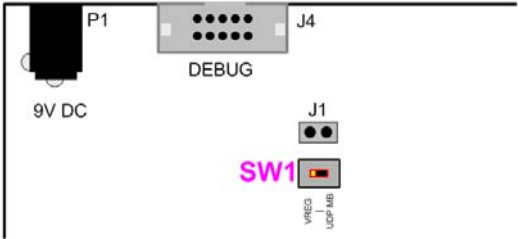


# C8051F390-A-DK AND C8051F370-A-DK DEVELOPMENT KIT QUICK-START GUIDE

## Installation

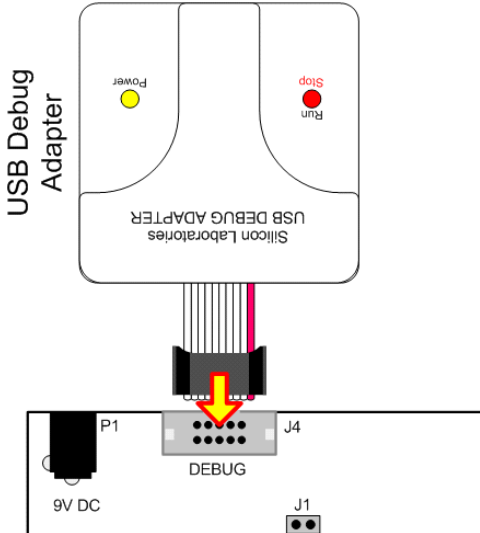
1

Move SW1 switch on MCU card to “VREG” position.



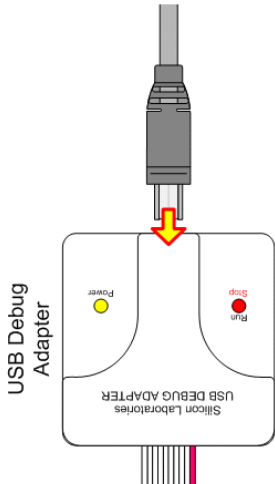
2

Connect USB Debug Adapter ribbon cable to MCU card.



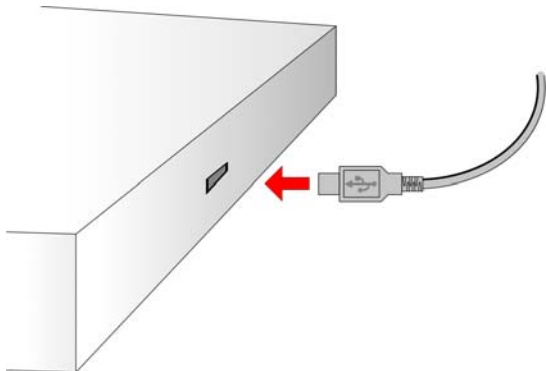
3

Connect USB cable to USB Debug Adapter.



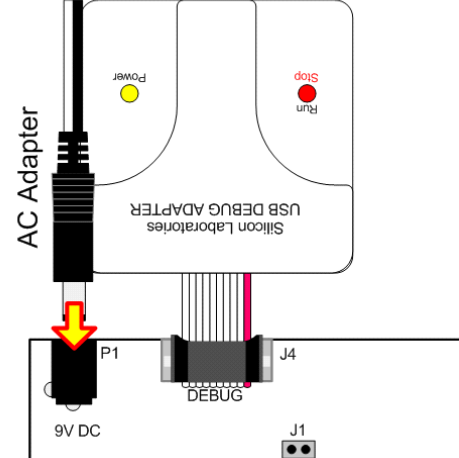
4

Connect USB cable to PC.



5


Connect power supply to MCU card.



Note: Some boards include options for alternate power sources. See Development Kit User's Guide for details.

6

Download all the latest software tools and documentation from the Silicon Labs website URL shown below.

<http://www.silabs.com/mcudownloads>


Note: Choose the Silicon Labs 8-bit Development Tools download package from that web page and install the components.

Note: Refer to Application Note AN104 for Keil toolset installation instructions. Use product serial number VN94S-LF15J-XZRT3.


7

The Silicon Labs 8-bit Development Tools download package includes the following components and more:

- + Silicon Labs IDE
- + Firmware Examples
- + 8051 Evaluation Toolset
- + Configuration Wizard
- + Flash Programming Utilities
- + Production Programmer
- + CP210x VCP Driver
- + Keil uVision Driver
- + Development Kit User's Guide
- + MCU Datasheet
- + Additional Documentation

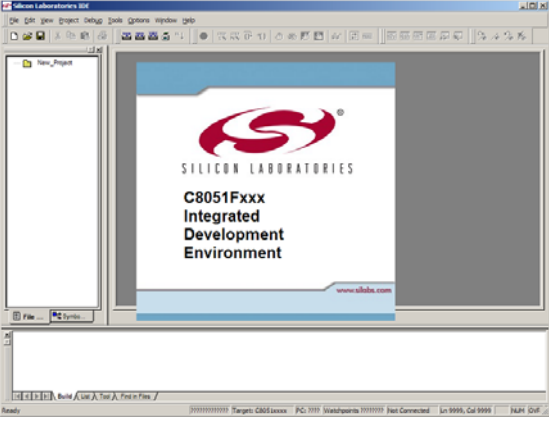
8

From the Programs list in the Start menu, select Silicon Laboratories and click on the Silicon Laboratories IDE logo.



9

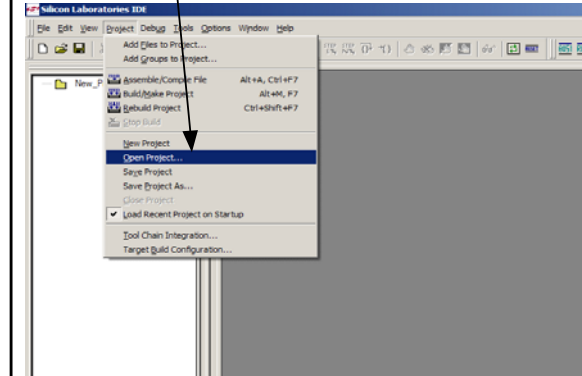
Silicon Laboratories IDE opens.



Example Program

10

Open project file "<Family>\_Blinky\_C.wsp" located at "C:\SiLabs\MCU\Examples\<Family>\Blinky"

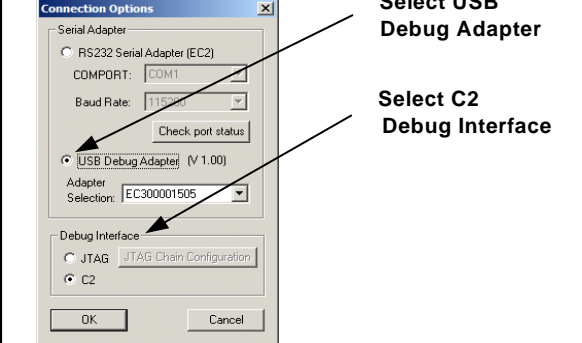


11

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

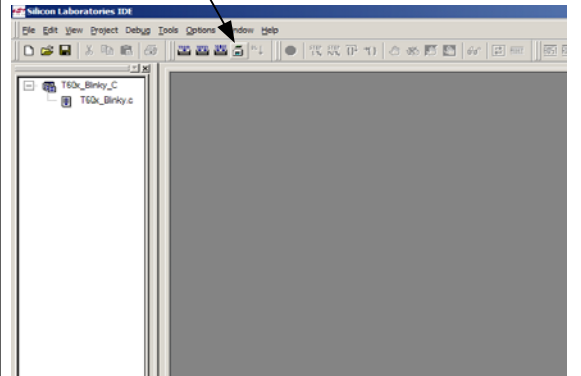
Select USB Debug Adapter

Select C2 Debug Interface



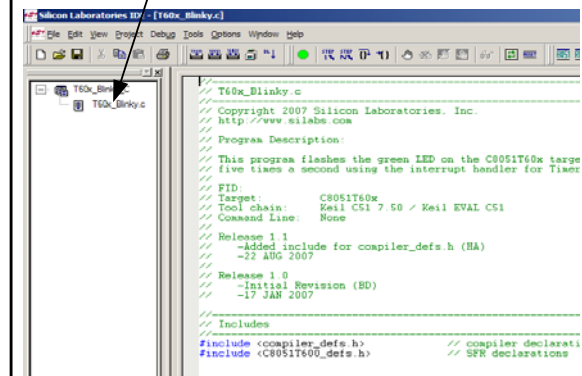
12

Connect to Target Board.



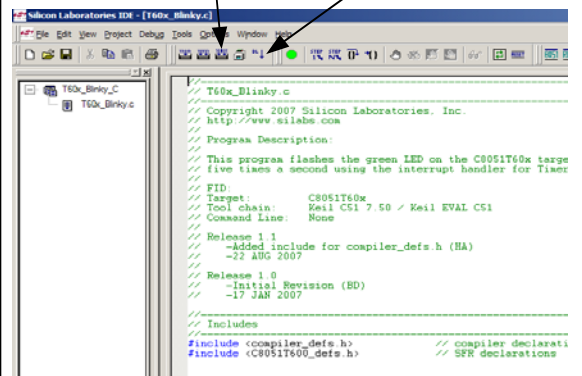
13

Click on "<Family>\_Blinky.c" to open source file.



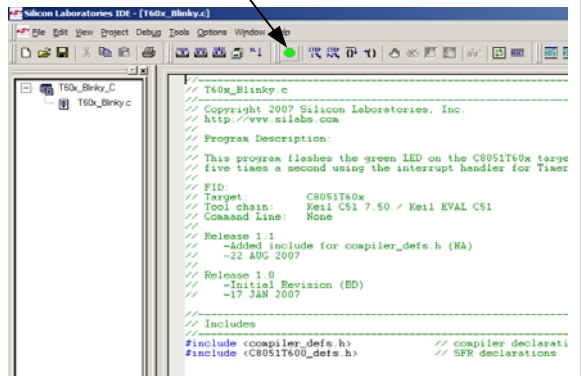
14

Build and Download the program.



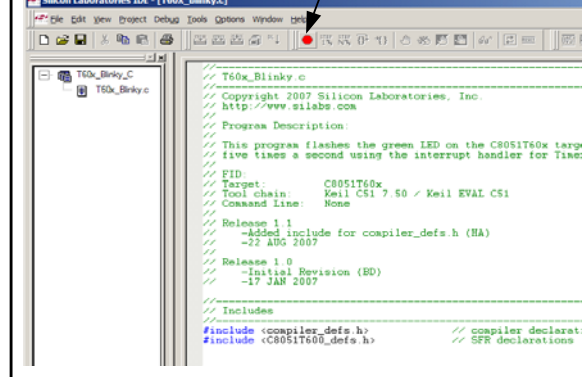
15

Execute example program Green LED on target board flashes as program runs.



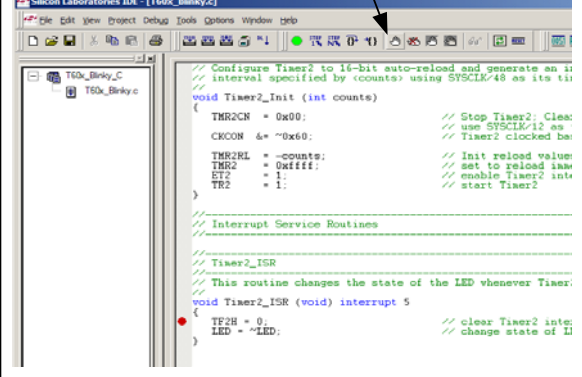
16

Stop execution of example program.



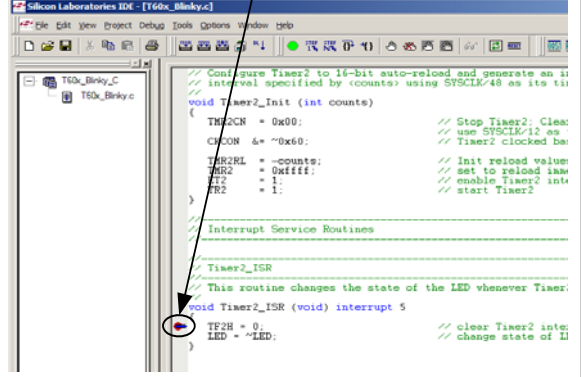
17

Set a breakpoint.



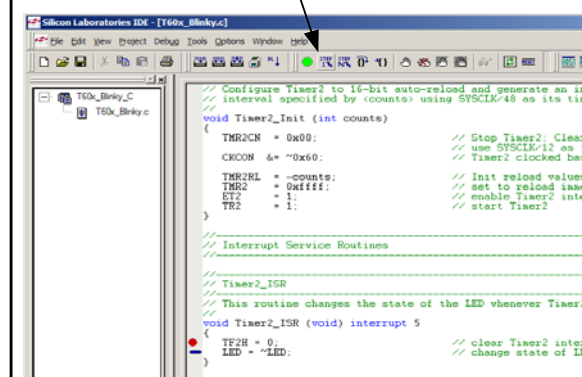
18

Execute program breakpoint encountered.



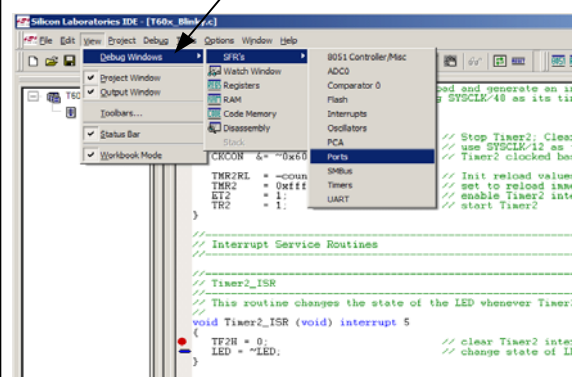
19

Step through program.



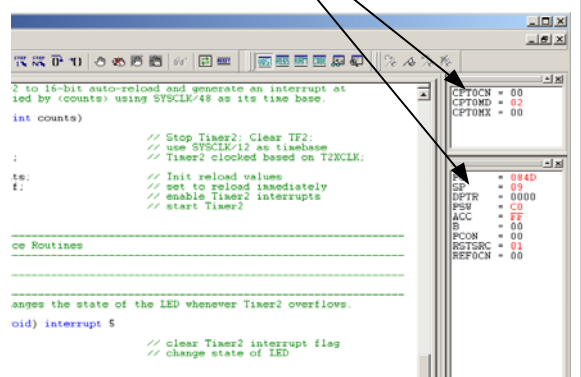
20

Open Debug windows.



21

View/modify Peripherals, Registers, Memory.



If you are having trouble installing and/or using the development kit, please use the following support resources:

- C8051F39x/7x Development Kit User's Guide (Default path: C:\SiLabs\MCU\Documentation\UsersGuides\)
- 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 <http://www.silabs.com/products/mcu/Pages/8-Bit-Microcontrollers.aspx>
- MCU Knowledgebase (available at [www.silabs.com](http://www.silabs.com) → SUPPORT)
- Contact an Applications Engineer using the online information request form (available at [www.silabs.com](http://www.silabs.com) → SUPPORT).

# Mouser Electronics

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