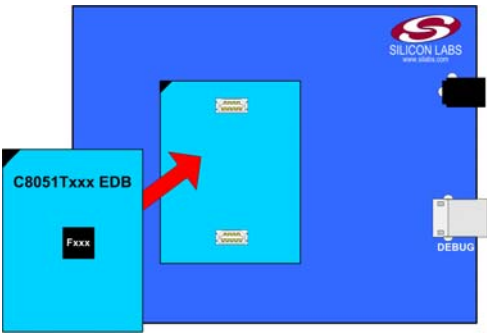


# C8051TxxxDK DEVELOPMENT KIT QUICK-START GUIDE FOR KITS FEATURING EPROM MCUs

## Installation

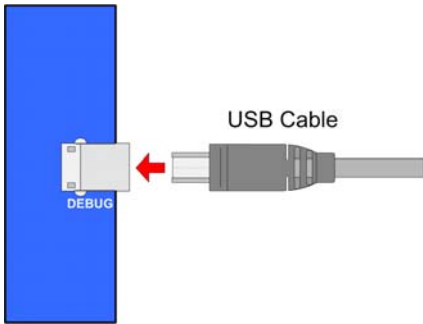
1

Connect the Emulation Daughter Board to the Main Board socket connector



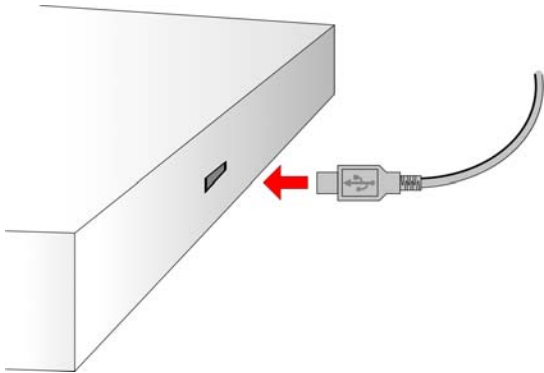
2

Connect USB cable to Main Board DEBUG connector



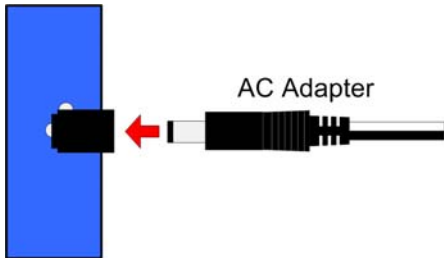
3

Connect USB cable to PC



4

Connect power supply to Main Board




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

5

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.


6

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

- + Silicon Labs IDE
- + 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

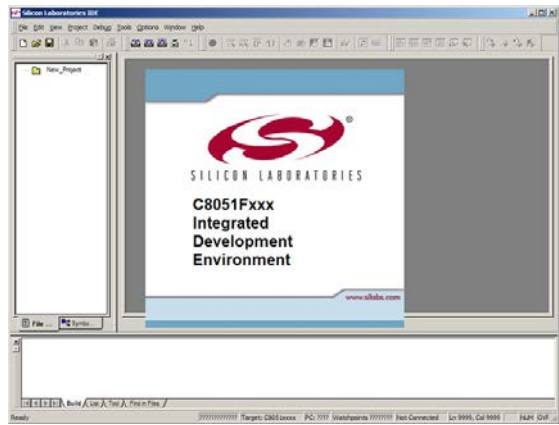
7

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



8

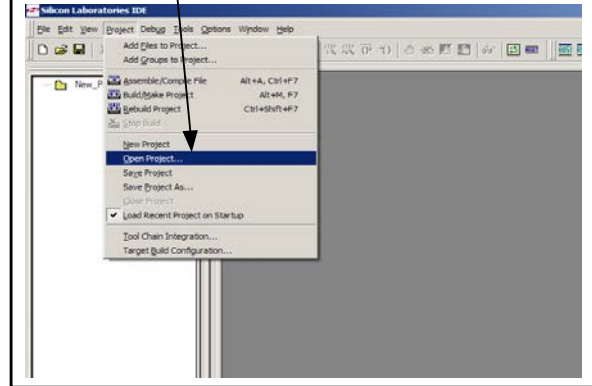
Silicon Laboratories IDE opens



Example Program

9

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

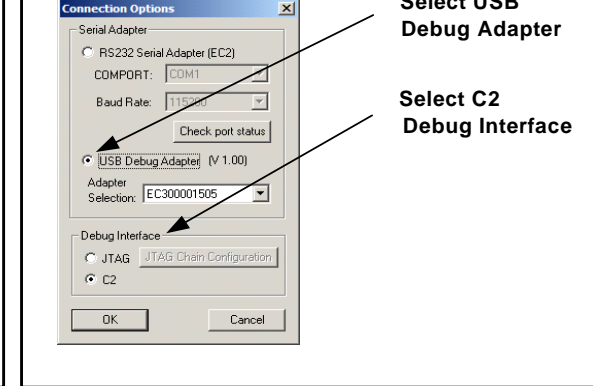


10

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

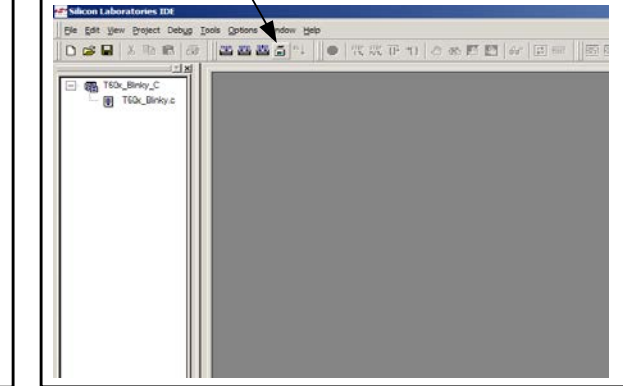
Select USB Debug Adapter

Select C2 Debug Interface



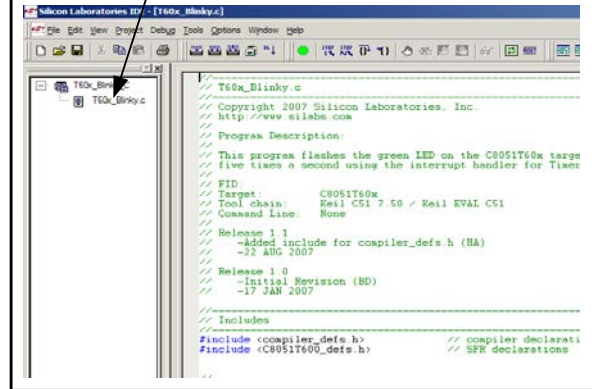
11

Connect to Target Board



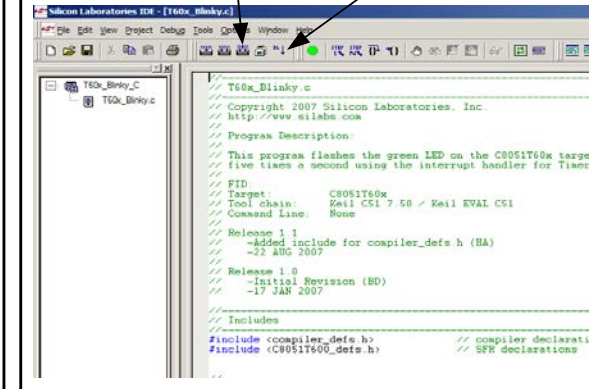
12

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



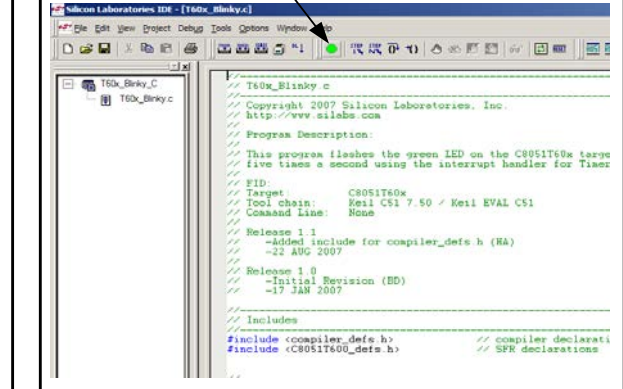
13

Build and Download the program



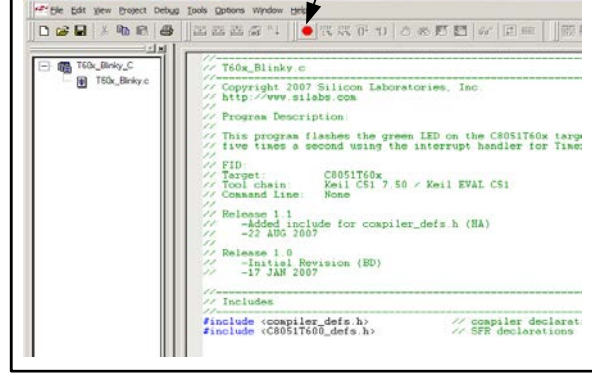
14

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



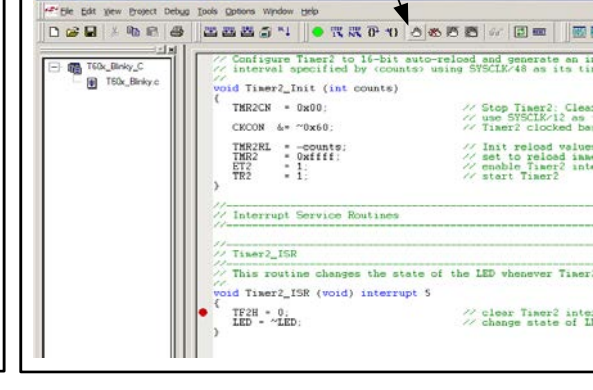
15

Stop execution of example program



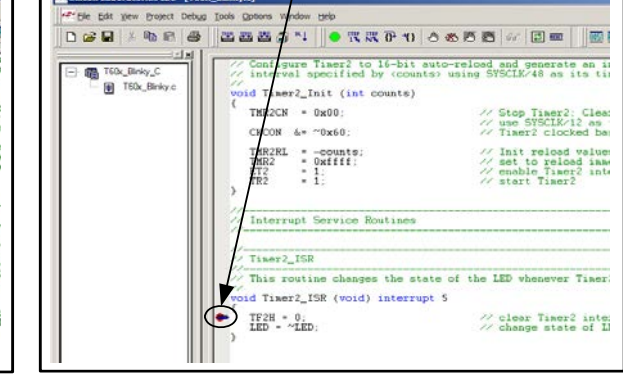
16

Set a breakpoint



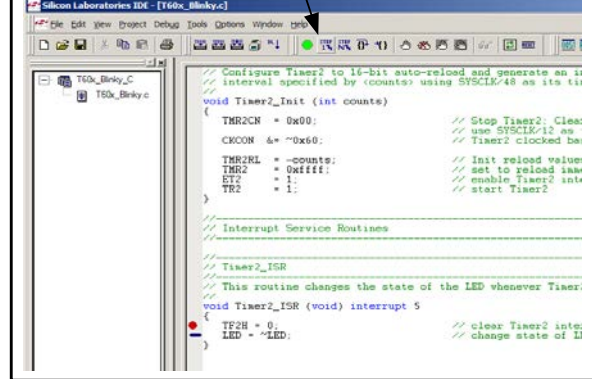
17

Execute program breakpoint encountered



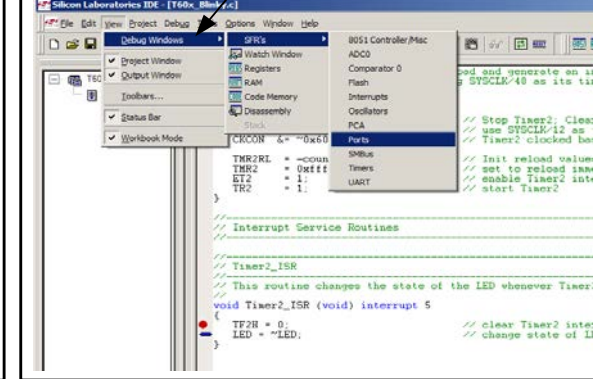
18

Step through program



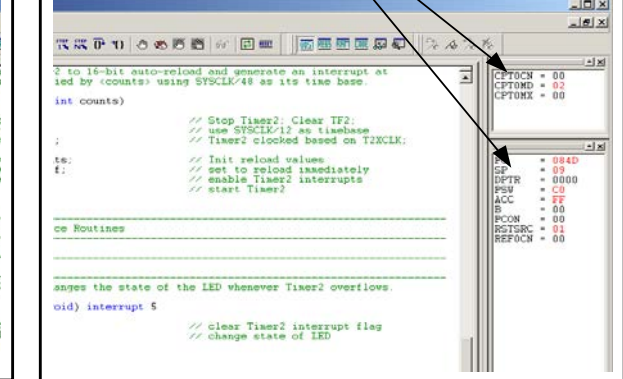
19

Open Debug windows



20

View/modify Peripherals, Registers, Memory



- If you are having trouble installing and/or using the development kit, please use the following support resources:
- C8051Txxx 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/microcontroller/applications.asp>
  - 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).