

## C8051FxxxDK DEVELOPMENT KIT QUICK-START GUIDE FOR KITS FEATURING THE UNIFIED DEVELOPMENT PLATFORM (UDP)

### Kit Contents

There are four varieties of general purpose UDP development kits. The content of these kits is listed below:

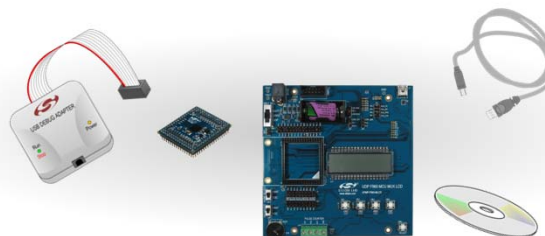
#### Development Kit

- The specific UDP MCU card.
- Silicon Laboratories USB Debug Adapter.
- Supporting cables.
- C8051FxxxDK Development Kit CD.
- C8051FxxxDK Quick Start Guide (this document).



#### Development Kit with Pico Board

- UPPI Pico Board for the MCU.
- The specific UDP MCU card.
- Silicon Laboratories USB Debug Adapter.
- Supporting cables.
- C8051FxxxDK Development Kit CD.
- C8051FxxxDK Quick Start Guide (this document).



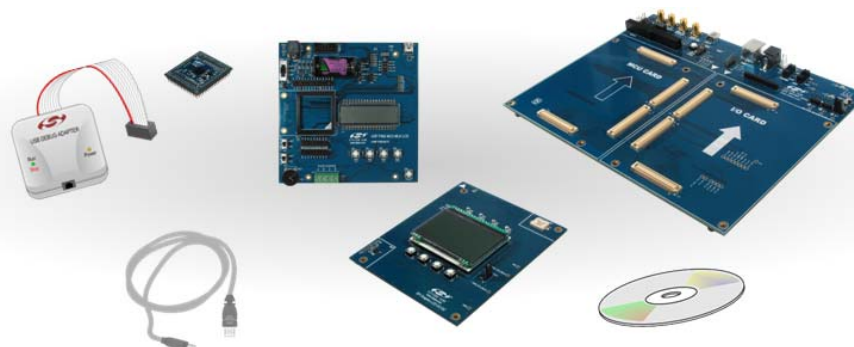
#### Enhanced Development Kit

- The specific UDP MCU card.
- UDP Motherboard.
- The specific kit I/O card.
- Silicon Laboratories USB Debug Adapter.
- Supporting cables.
- C8051FxxxDK Development Kit CD.
- C8051FxxxDK Quick Start Guide (this document).

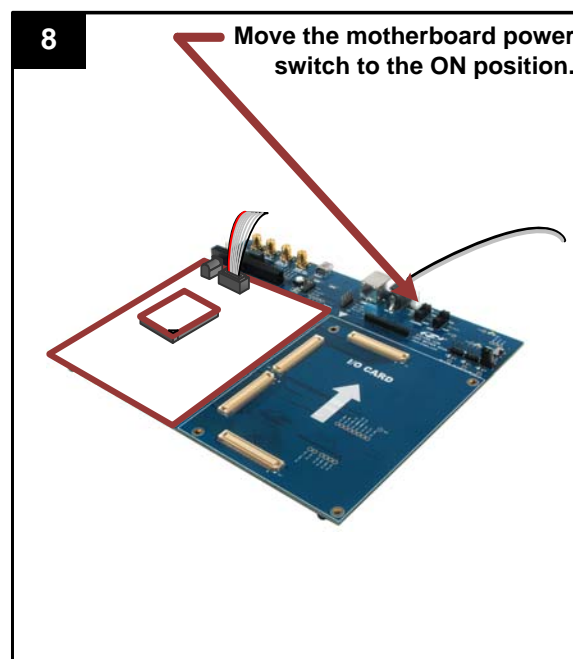
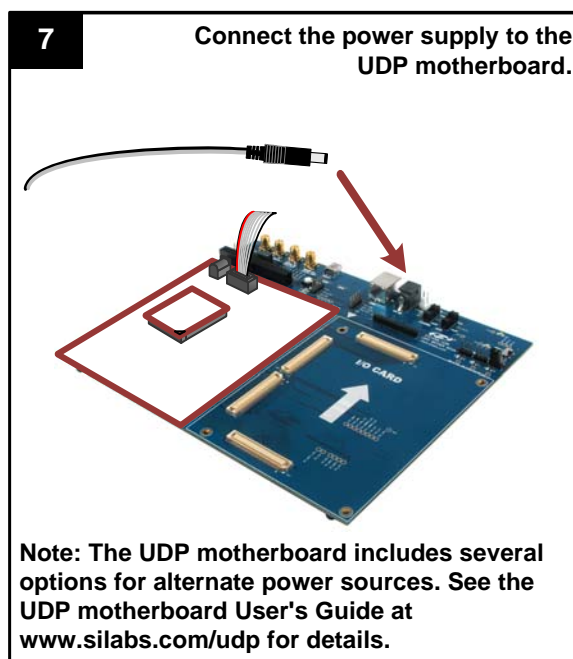
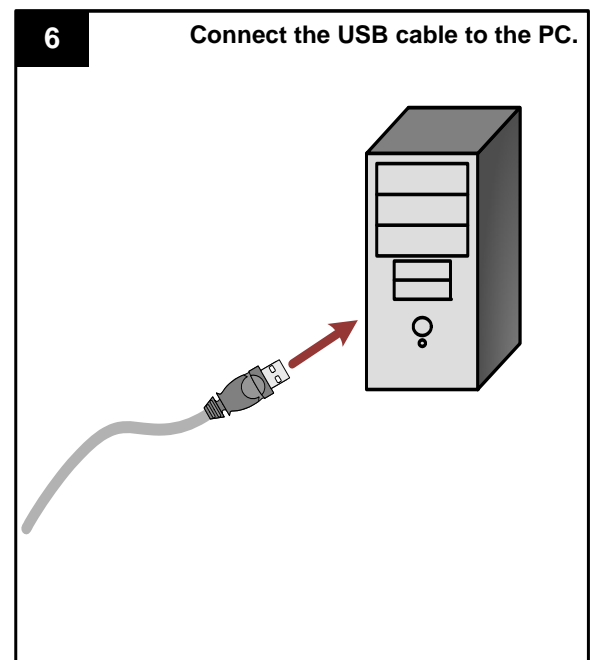
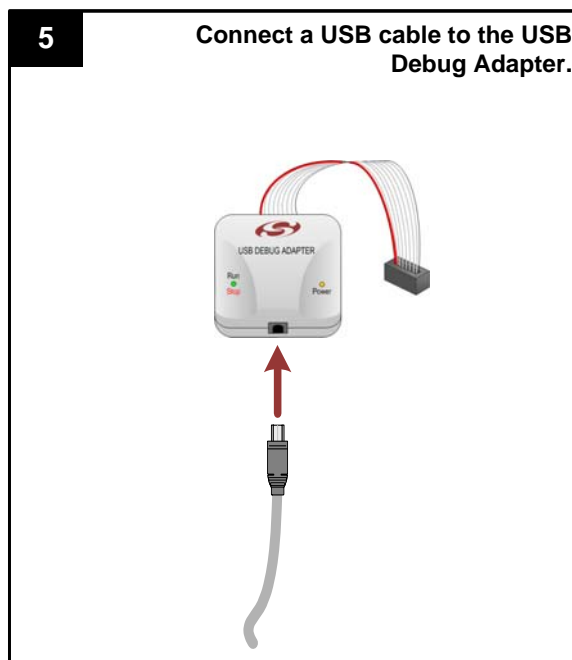
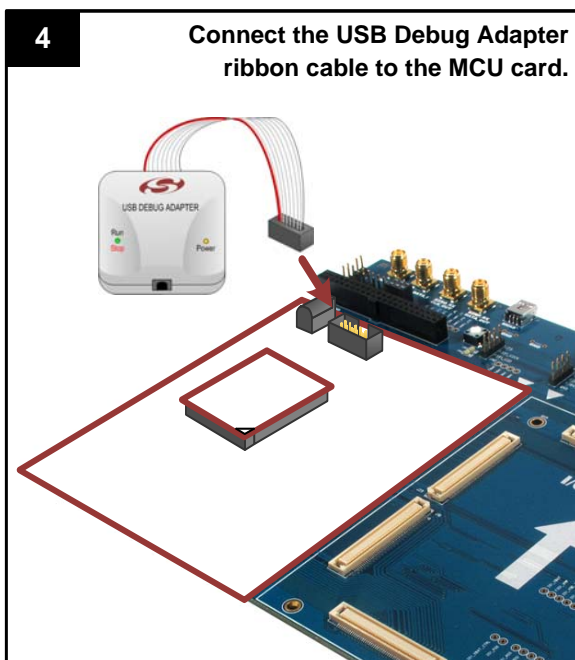
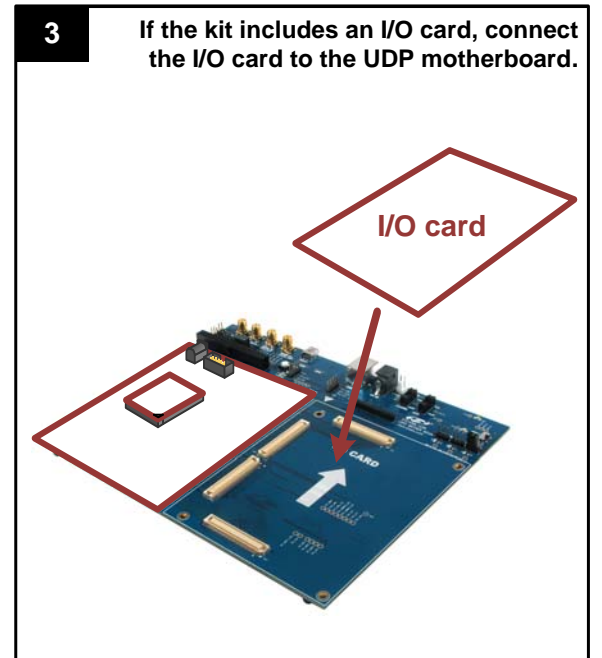
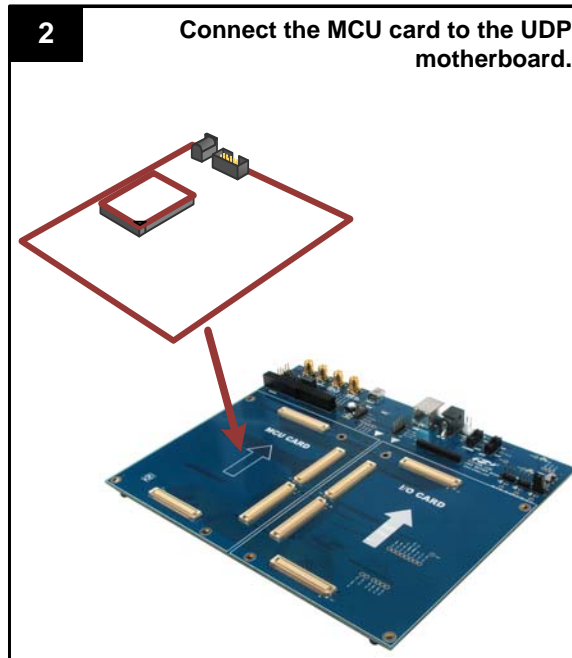
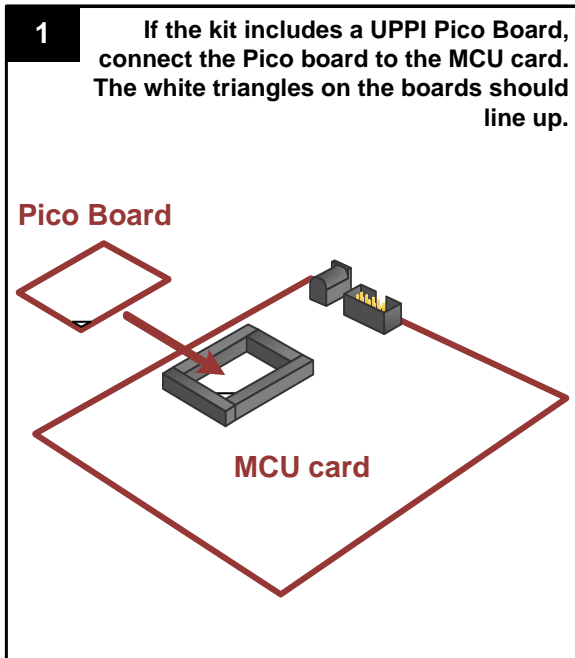


#### Enhanced Development Kit with Pico Board

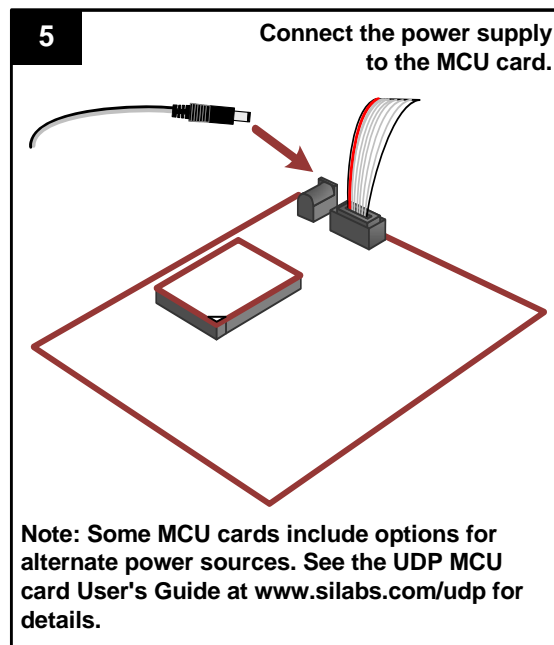
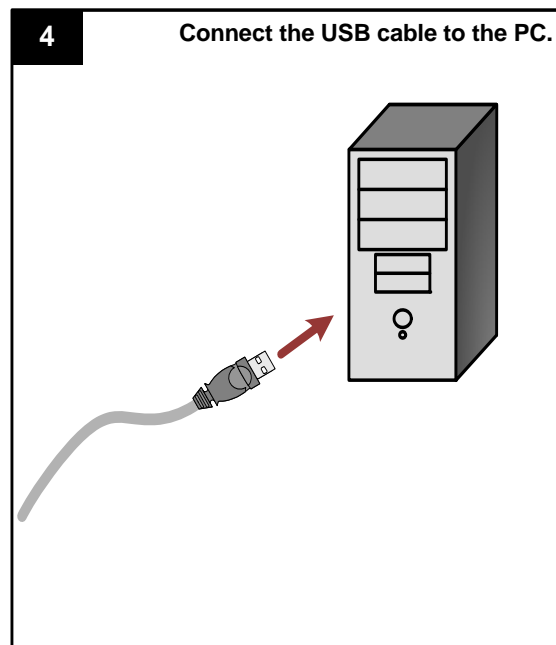
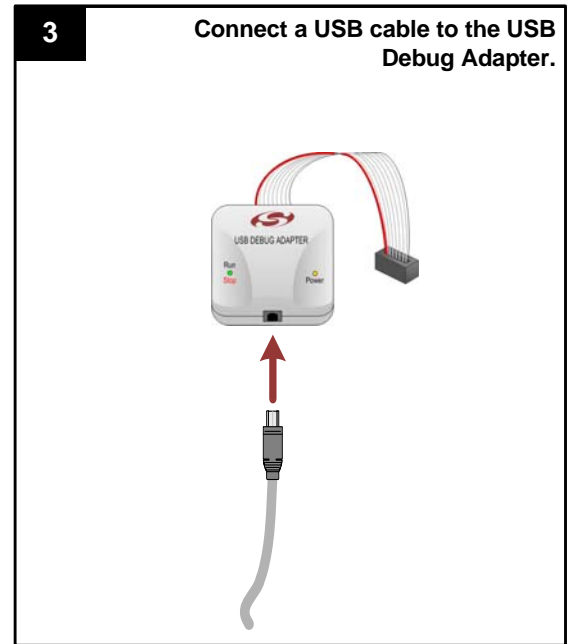
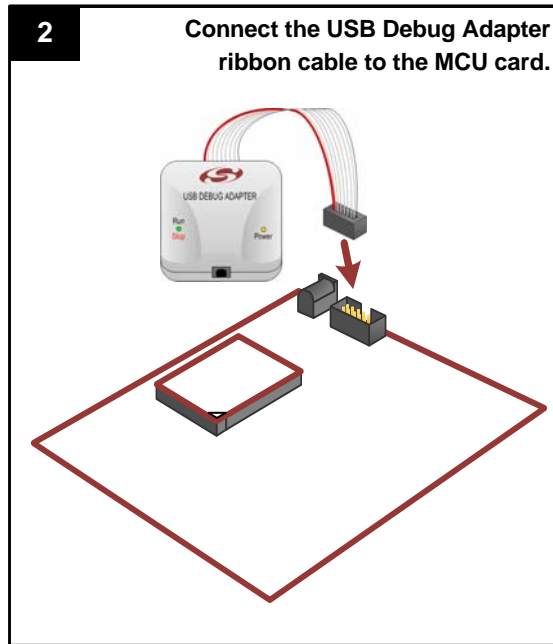
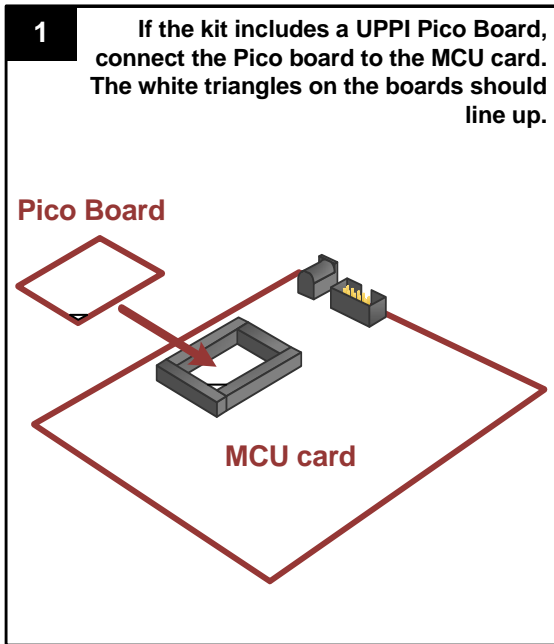
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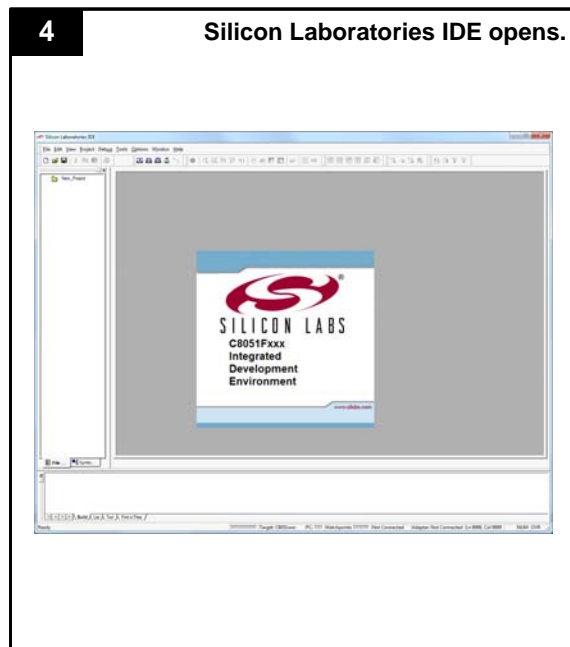
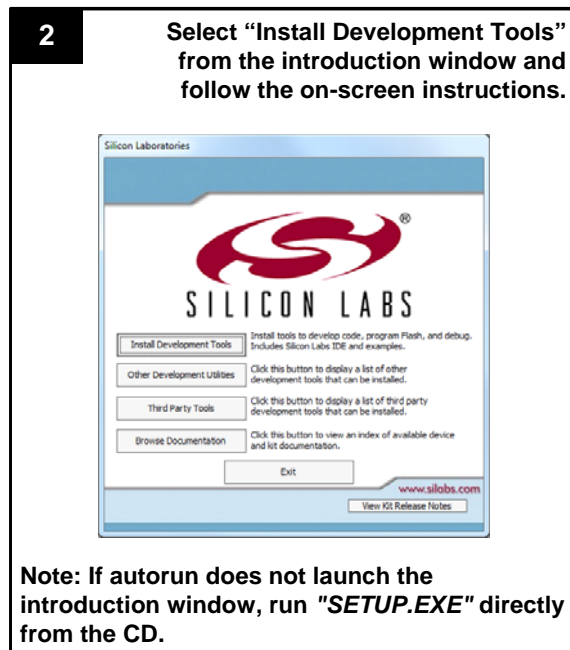
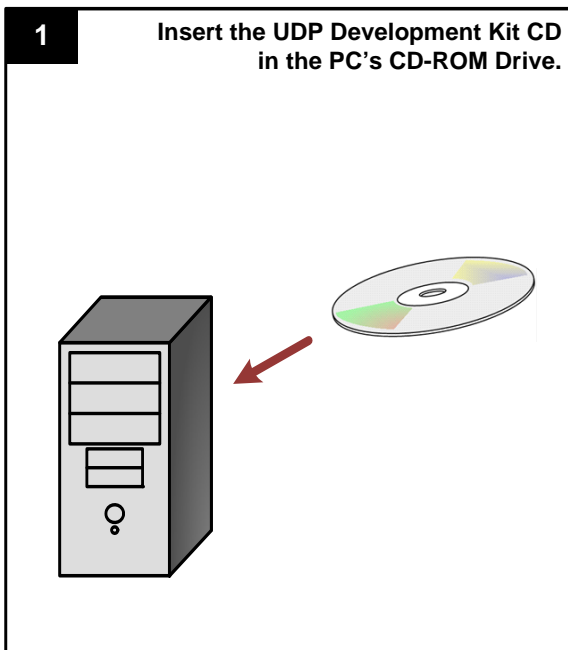
## Hardware Setup with the UDP Motherboard



## Hardware Setup with the MCU Card Alone



## Software Installation





# Using the Silicon Labs IDE

**1** Open the project file "**<Family>\_Blinky\_C.wsp**" located at "**C:\SilLabs\MCUExamples<Family>Blinky**"

**2** Select "**Connection Options...**" from the "**Options**" Menu.

Select **USB Debug Adapter**

Select the correct debug interface

- C8051F0xx → JTAG
- C8051F1xx → JTAG
- C8051F2xx → JTAG
- C8051F3xx → C2
- C8051F4xx → C2
- C8051F5xx → C2
- C8051F9xx → C2

**3** Connect to the target MCU.

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

**5** Build and Download the program.

**6** Execute the example program. The green LED on the MCU card flashes as the program runs.

**7** Stop execution of the example program.

**8** Set a breakpoint.

**9** Execute the program. The IDE will stop when it encounters the breakpoint.

**10** Step through the program.

**11** Open Debug windows.

**12** View or modify Peripherals, Registers, or Memory.

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

- UDP Motherboard, MCU card, Pico Board, and I/O card User's Guides ([www.silabs.com/udp](http://www.silabs.com/udp))
- 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 [www.silabs.com/products/microcontroller/applications.asp](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).