C8051FxxxDK Development Kit Quick-Start Guide
For Kits Featuring the Unified Development Platform (UDP)

Kit Contents

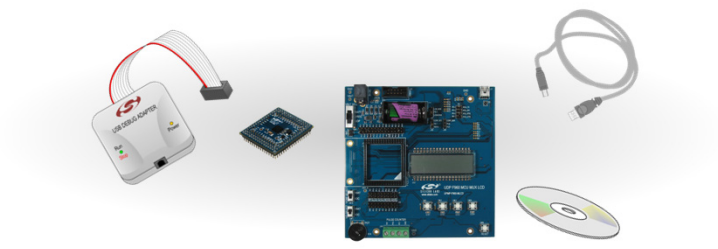
There are four varieties of general purpose UDP development kits. The content of these kits is listed below:

Development Kit

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

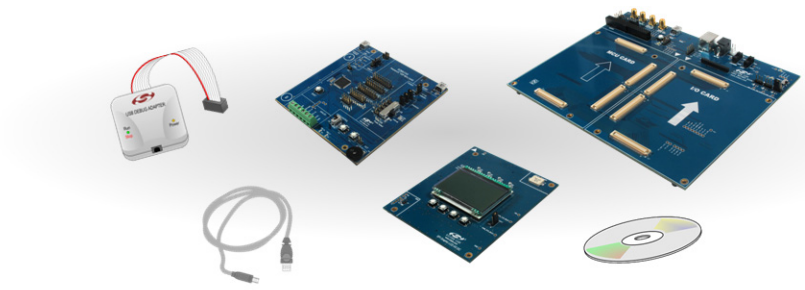
Development Kit with Pico Board

- 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

- UPPI Pico Board for the MCU.
- The specific UDP MCU card.
- UDP Motherboard.
- The specific kit I/O card.
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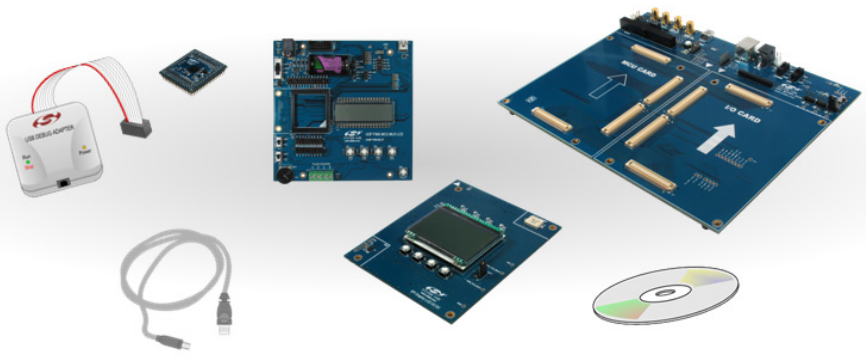

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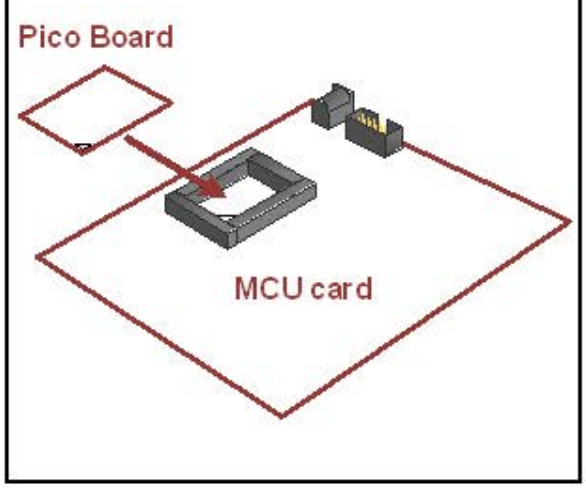
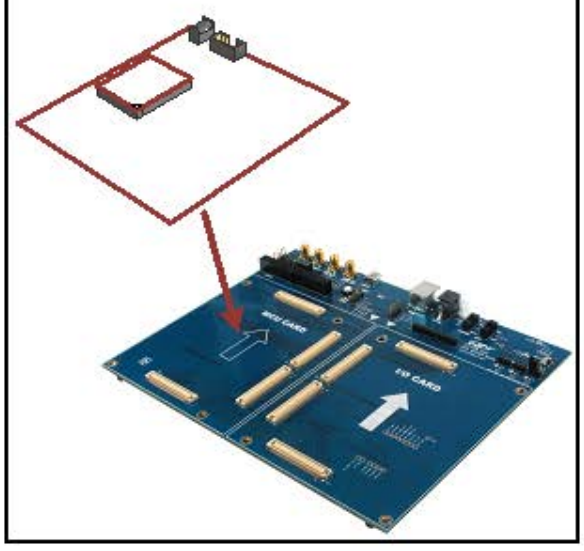
Hardware Setup with the UDP Motherboard

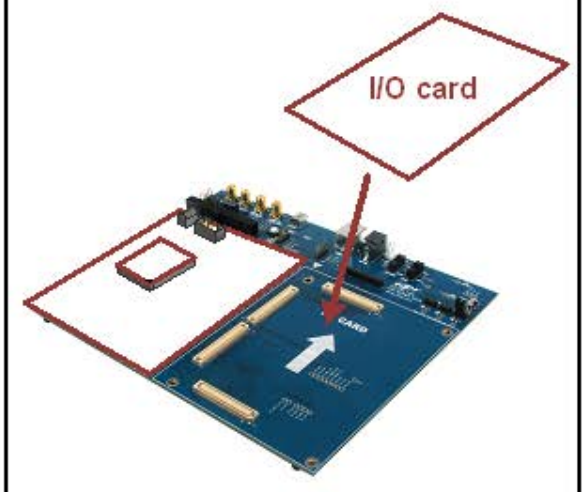
1 If the kit includes a UPPI Pico Board, connect the Pico board to the MCU card. The white triangles on the boards should line up.



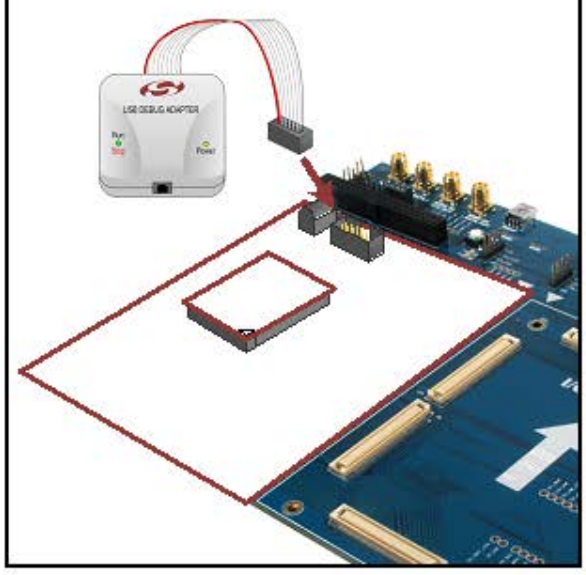
2 Connect the MCU card to the UDP motherboard.



3 If the kit includes an I/O card, connect the I/O card to the UDP motherboard.

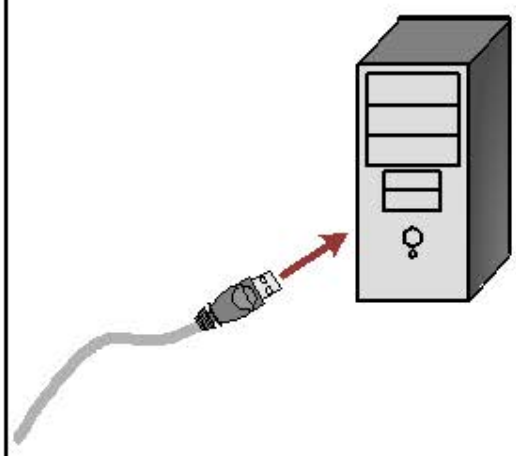


4 Connect the USB Debug Adapter ribbon cable to the MCU card.

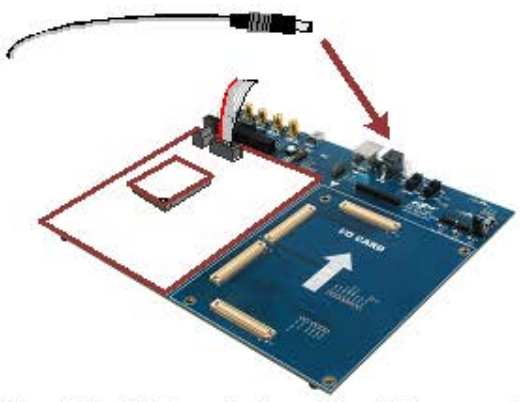


5 Connect a USB cable to the USB Debug Adapter.

6 Connect the USB cable to the PC.

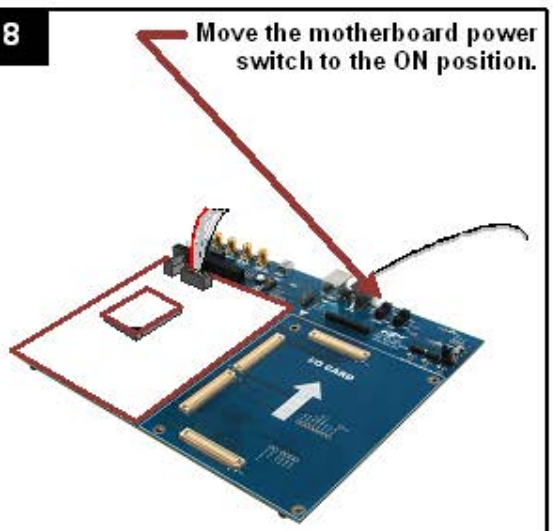


7 Connect the power supply to the UDP motherboard.



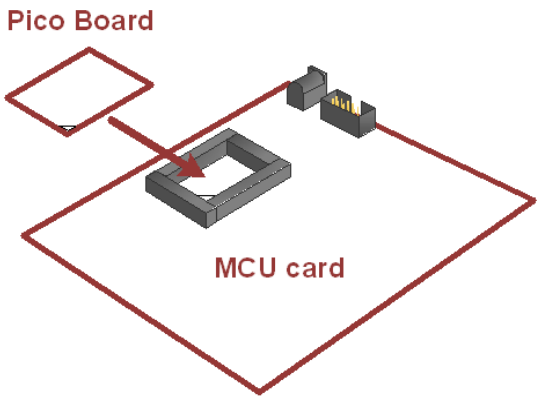
Note: The UDP motherboard includes several options for alternate power sources. See the UDP motherboard User's Guide at www.silabs.com/udp for details.

8 Move the motherboard power switch to the ON position.

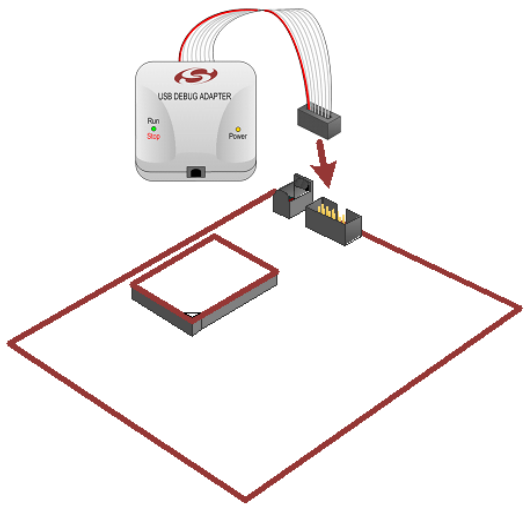


Hardware Setup with the MCU Card Alone

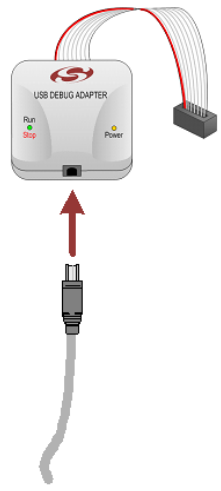
1 If the kit includes a UPPI Pico Board, connect the Pico board to the MCU card. The white triangles on the boards should line up.



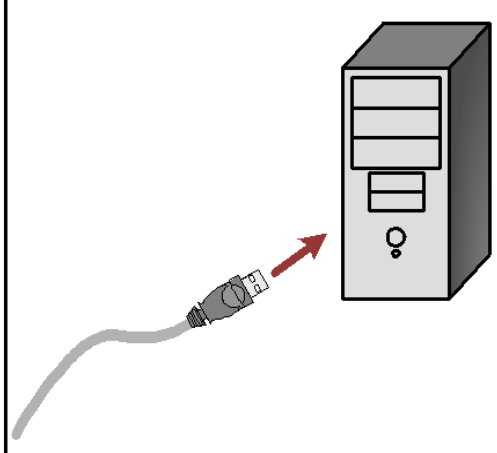
2 Connect the USB Debug Adapter ribbon cable to the MCU card.



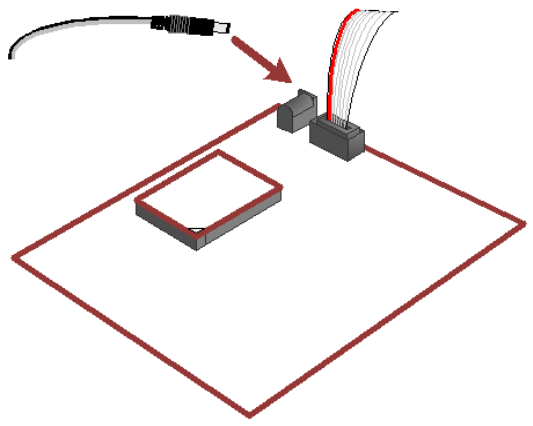
3 Connect a USB cable to the USB Debug Adapter.



4 Connect the USB cable to the PC.



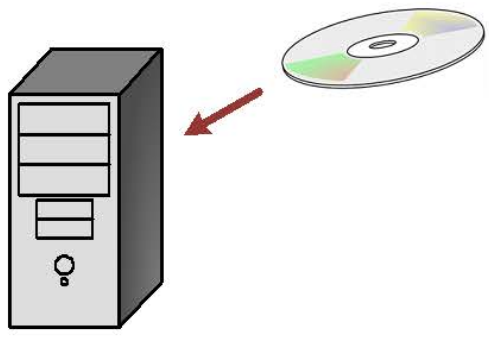
5 Connect the power supply to the MCU card.



Note: Some MCU cards include options for alternate power sources. See the UDP MCU card User's Guide at www.silabs.com/udp for details.

Software Installation

1 Insert the UDP Development Kit CD in the PC's CD-ROM Drive.

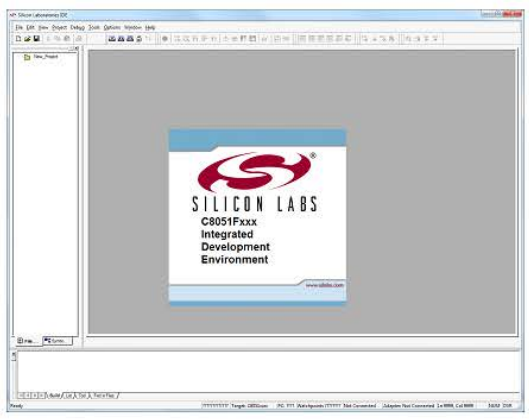


2 Select "Install Development Tools" from the introduction window and follow the on-screen instructions.

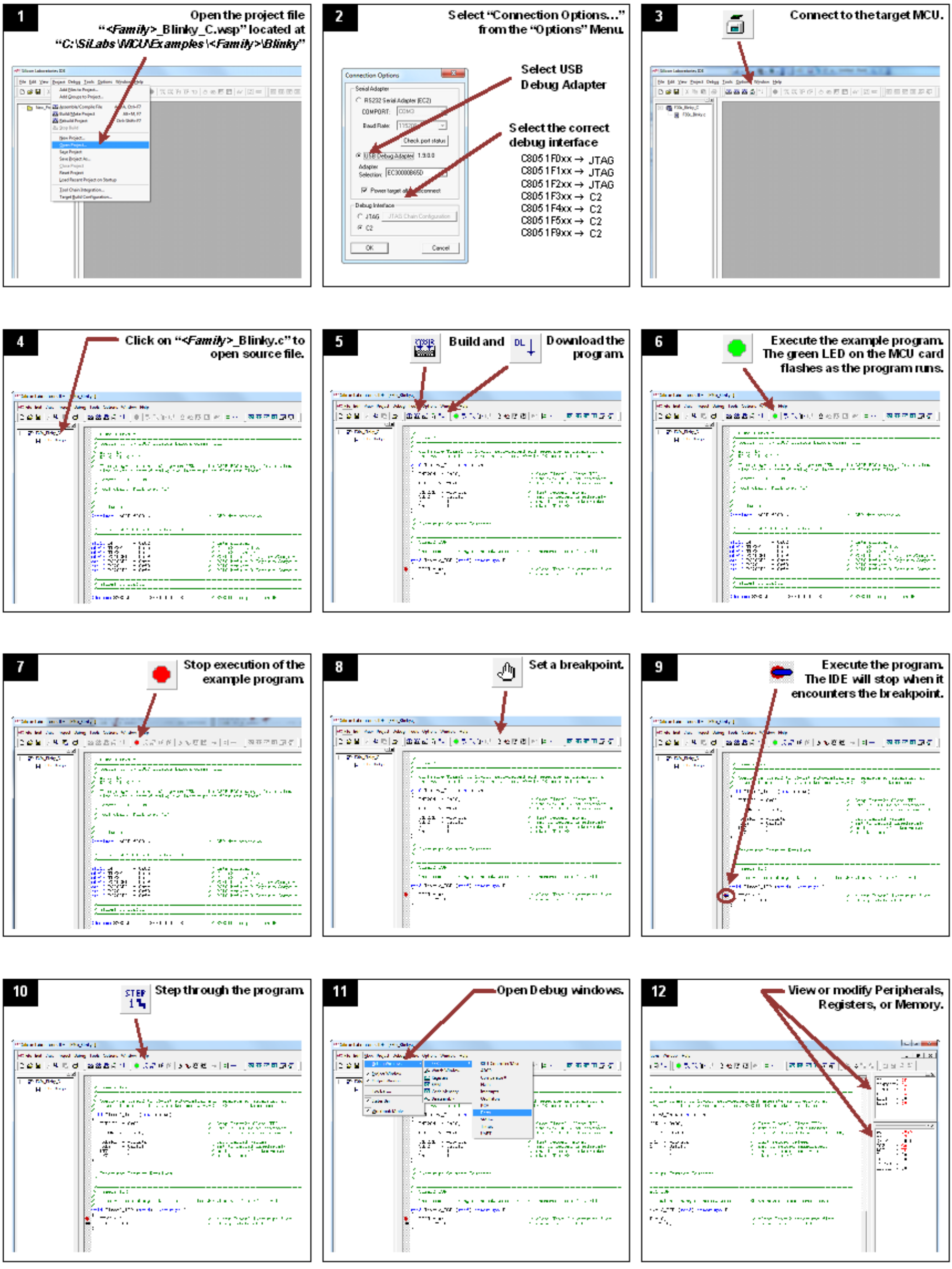
Note: If autorun does not launch the introduction window, run *"SETUP.EXE"* directly from the CD.

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

4 Silicon Laboratories IDE opens.



Using the Silicon Labs IDE



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)
- 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
- MCU Knowledgebase (available at www.silabs.com → SUPPORT)
- Contact an Applications Engineer using the online information request form (available at www.silabs.com → SUPPORT).