
SIMXXXXX PRECISION32™ MCU 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:

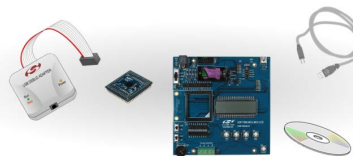
Development Kit

- UDP MCU card.
- Silicon Laboratories USB Debug Adapter.
- Supporting cables.
- SiMxxxxx DK Quick Start Guide (this document).



Development Kit with Pico Board

- UPPI Pico Board for the MCU.
- UDP MCU card.
- Silicon Laboratories USB Debug Adapter.
- Supporting cables.
- SiMxxxxx DK Quick Start Guide (this document).



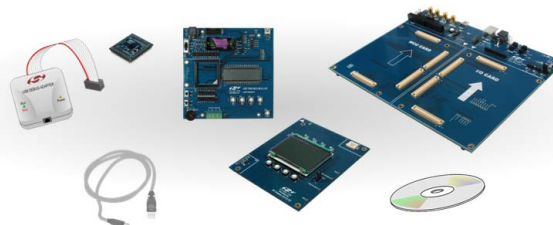
Enhanced Development Kit

- UDP MCU card.
- UDP Motherboard.
- UDP I/O card(s).
- Silicon Laboratories USB Debug Adapter.
- Supporting cables.
- SiMxxxxx DK Quick Start Guide (this document).



Enhanced Development Kit with Pico Board

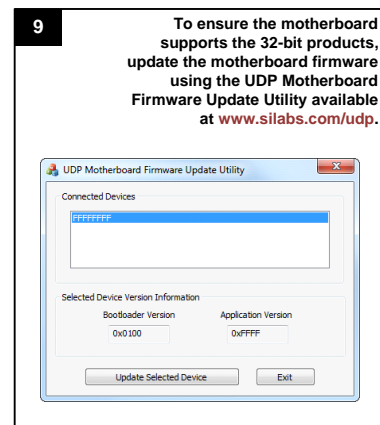
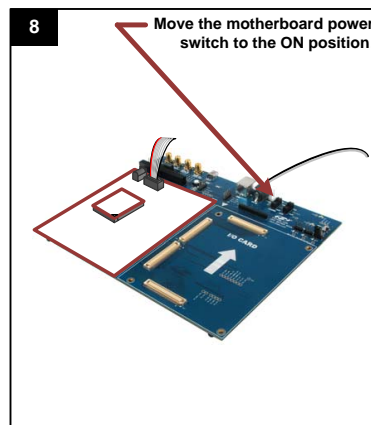
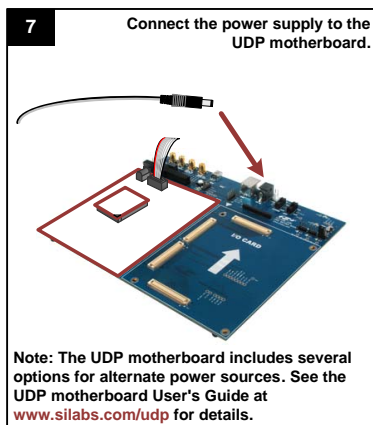
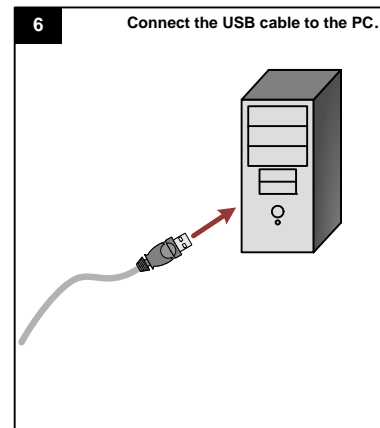
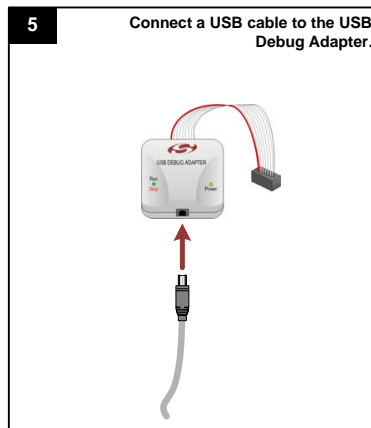
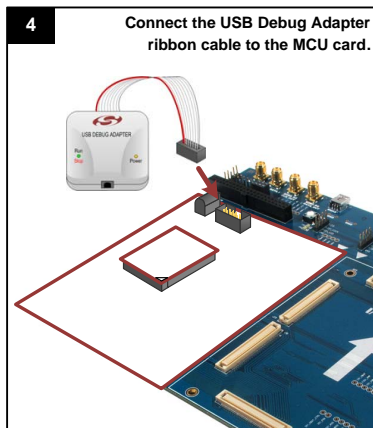
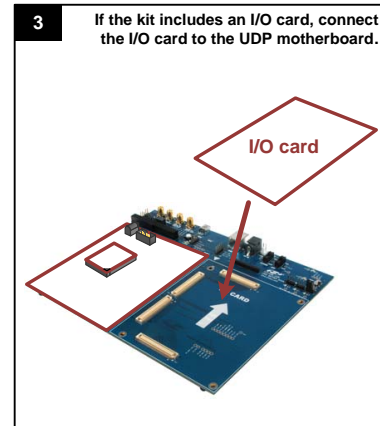
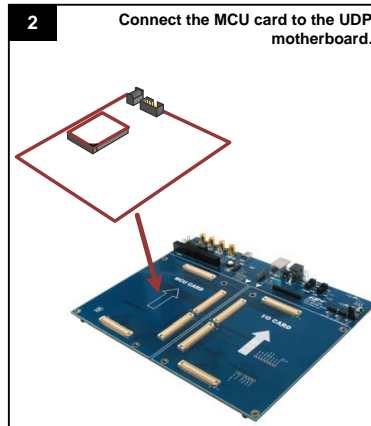
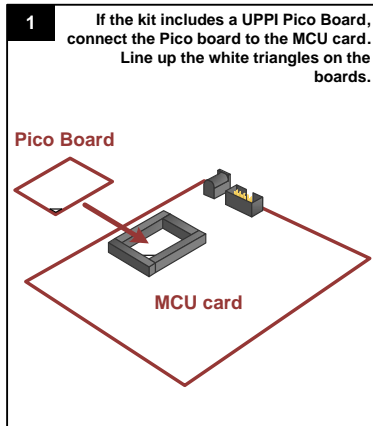
- UPPI Pico Board for the MCU.
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Download all Precision32™ 32-bit microcontroller software, documentation, and resources at

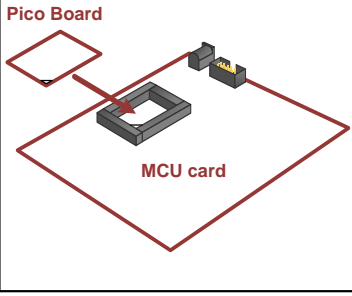
www.silabs.com/32bit-mcu
www.silabs.com/32bit-software

Hardware Setup with the UDP Motherboard

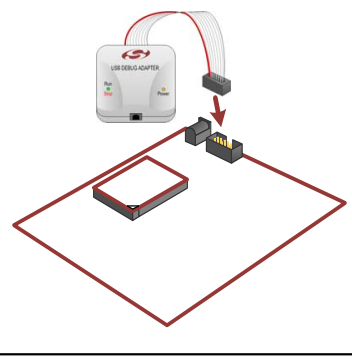


Hardware Setup with the MCU Card Alone

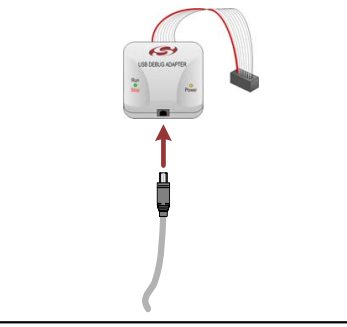
1 If the kit includes a UPPI Pico Board, connect the Pico board to the MCU card. The white triangles on the boards should line up.



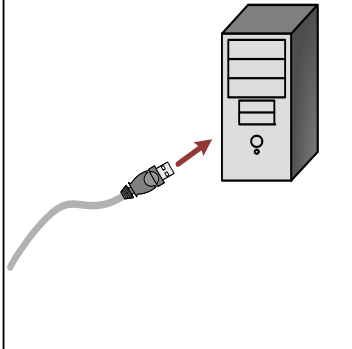
2 Connect the USB Debug Adapter ribbon cable to the MCU card.



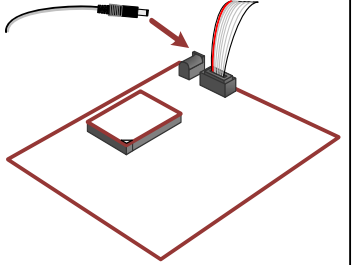
3 Connect a USB cable to the USB Debug Adapter.



4 Connect the USB cable to the PC.



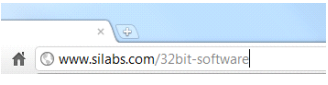
5 Connect the power supply to the MCU card.



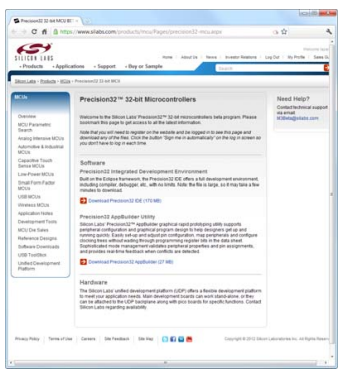
Note: Some MCU cards include options for alternate power sources. See the UDP MCU card User's Guide at www.silabs.com/udp for details.

Software Installation

1 Navigate to the Precision32 software download website: www.silabs.com/32bit-software



2 Download and install the Precision32 IDE and AppBuilder programs.



Using the Precision32 IDE

- 1** Open the Precision32 IDE and select the project workspace.
- 2** Register the IDE using the steps listed on the Welcome page.
- 3** Select the Silicon Labs SDK path (C:\Silabs\32bit\sls32-x.y) using the drop-down menu at the bottom of the IDE.
- 4** Select the **Import SI32 SDK example(s)** link in the Quickstart Window.
- 5** Select just the Blinky checkbox and press Finish.
- 6** Select the Blinky project in the Project Explorer and press **Build 'Blinky' [Debug]** in the Quickstart window.
- 7** Start a Debug session by clicking **Debug 'Blinky' [Debug]** in the Quickstart window.
- 8** Run the program. The LED will blink. Stop the program.
- 9** Right-click on any blue-marked lines of code and select **Toggle Breakpoint** to add a breakpoint. Then press **Run** to run to the breakpoint.
- 10** Step Into or Step Over code.
- 11** Right-click on a variable and select **Add Watch Expression...** to add it to the Expressions window.
- 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:

- All Precision32 software and resources are downloadable at www.silabs.com/32bit-mcu and www.silabs.com/32bit-software
- UDP Motherboard, MCU card, Pico Board, and I/O card User's Guides (www.silabs.com/udp)
- Application Note "AN667: Getting Started with the Silicon Labs Precision32 IDE" (contains instructions to register the Precision32 IDE)
- Latest versions of 32-bit Application Notes are available at www.silabs.com/32bit-mcu
- MCU Knowledgebase (available at www.silabs.com → SUPPORT)
- Contact an Applications Engineer using the online information request form (available at www.silabs.com → SUPPORT).