

CP2110 HID USB-TO-UART EVALUATION KIT QUICK-START GUIDE

The CP2110 HID USB-to-UART smart-interface family provides a simple solution for connecting UART serial peripheral-based designs to USB using a minimum of components and PCB space without needing to install or certify a driver. The CP2110 devices include a USB 2.0 full-speed function controller, USB transceiver, oscillator, One-Time Programmable ROM, and one UART interface.

The CP2110 Evaluation Kit contains the following:

- CP2110 evaluation board (pictured)
- USB cable
- RS232 serial cable
- DVD
- Quick Start Guide (this document)



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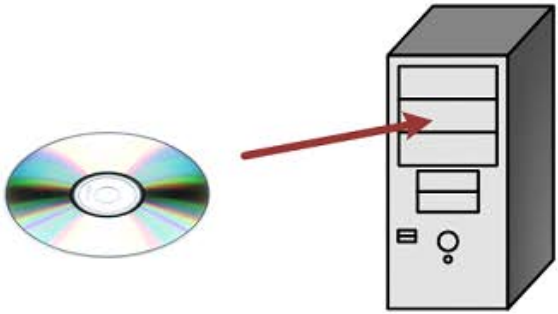
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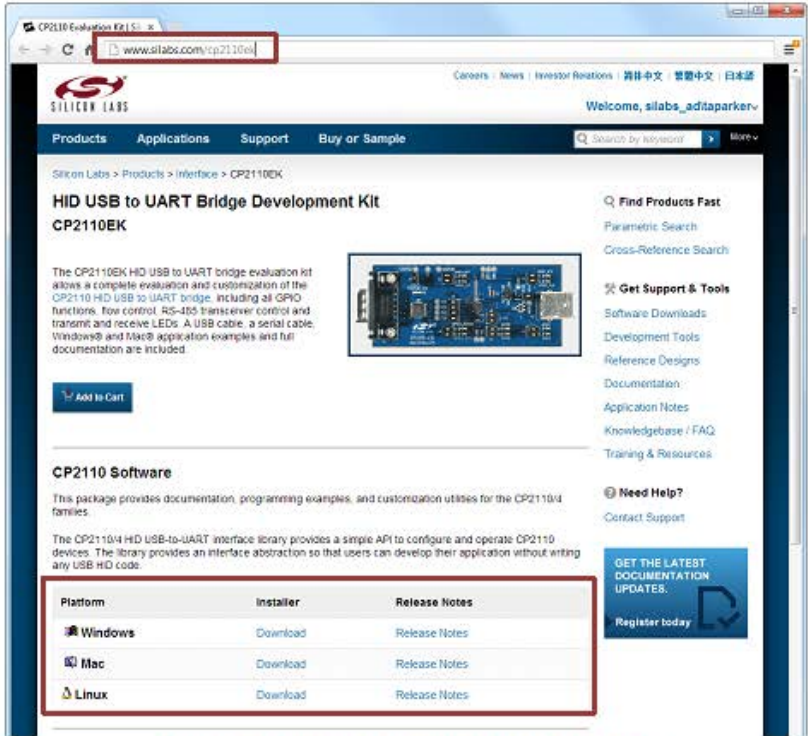
Mailing Address:
400 W. Cesar Chavez
Austin, TX 78701

A. Getting Started

1 Insert the DVD included in the kit to install the CP2110-related software. The latest version of this installer can also be downloaded from the website by navigating to www.silabs.com/CP2110EK and clicking on the **Download** link for the appropriate operating system.



OR



<http://www.silabs.com/CP2110EK>

2 Inserting the DVD will open the kit selection screen. Navigate the menus to launch the correct installer. If downloading the installer from the website, run the installer from the download location.

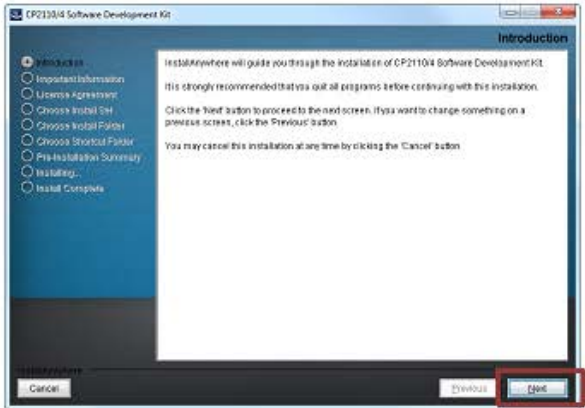


OR



Note: Windows installation process shown.

3 Click on **Next**, accept the license agreement, and complete the installer steps. The installer may prompt to restart the PC when installation completes.



4

Connect the CP2110 evaluation board to a PC as shown using the USB cable. Connect a RS232 serial cable to the DB9 connector on the evaluation board with the end attachment connecting to the target serial device.

5

The CP2110 device will appear as an HID device in Device Manager in Windows. As an HID device, the CP2110 can be accessed using standard Windows USB HID functions. Silicon Labs provides a DLL with the CP2110 install package to simplify this process.

8

As a quick test, rotate the jumpers on the CP2110 RX and TX pins to the RX and TX together and perform a loop back test.

9

In the **HIDuartExample** application, press the **Connect** button to connect to the device, type some bytes in the **Transmit text box**, and click the **Transmit** button. The CP2110 will echo the characters in the **Receive box** through the loop back connection.

6

The red Suspend LED will turn on when the board is properly connected to the PC.

7

Open the CP2110 HID UART Example through the Start menu. The default installation directory for this software is `C:\SiliconLabs\MCU\CP2110_4_SDK\Software\HIDuartExample\Windows`.

Start → **All Programs** → **Silicon Labs** → **CP2110_4 Software Development Kit** → **CP2110_4 HIDuartExample**

B. Relevant Documentation

- Application Notes:
- AN721: CP210X/CP211X Device Customization Guide
 - AN433: CP2110 HID to UART API Specification
 - AN434: CP2110 Interface Specification

www.silabs.com/interface-articles

Device Information:
<http://www.silabs.com/smartinterface>

Data Sheets:
<http://www.silabs.com/smartinterface> → USB to UART Bridges → Documentation tab → Data Sheet section



Users Guides
<http://www.silabs.com/smartinterface> → USB to UART Bridges → Documentation tab → User Guides section

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