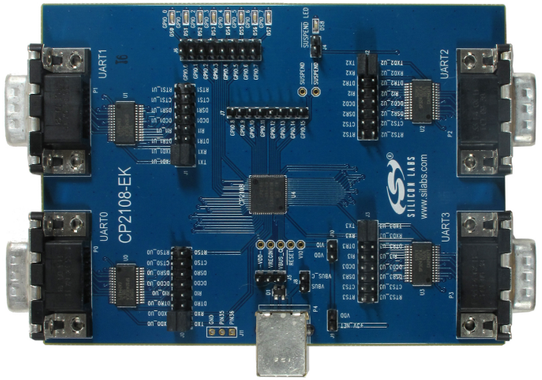
CP2108 EVALUATION KIT QUICK-START GUIDE

The CP2108 is a USB-to-Quad-UART Bridge Controller providing a simple solution for updating RS-232/RS-485 designs to USB using a minimum of components and PCB space. The CP2108 includes a USB 2.0 full-speed function controller, USB transceiver, oscillator, EEPROM, and four asynchronous serial data buses (UART) with full modem control signals in a compact 9 mm x 9 mm QFN-64 package.

The Evaluation Kit contains the following:

- CP2108 evaluation board
- 4 x RS232 serial cables
- 1 x USB cable



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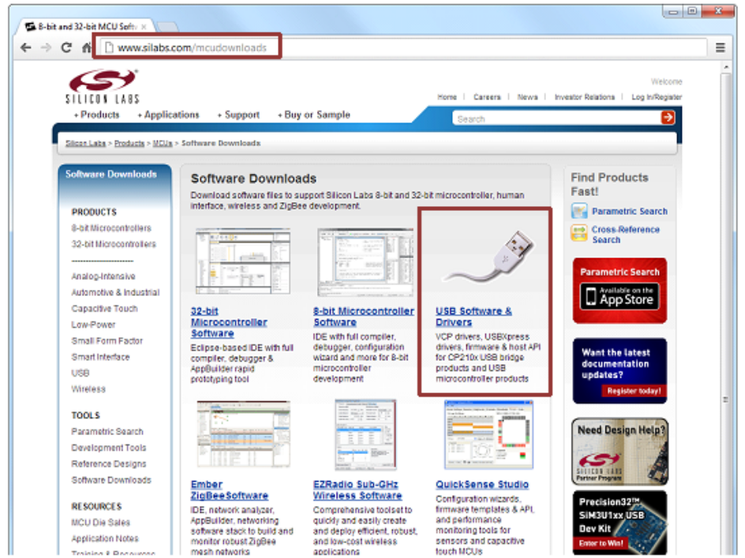
Mailing Address:
400 W. Cesar Chavez
Austin, TX 78701

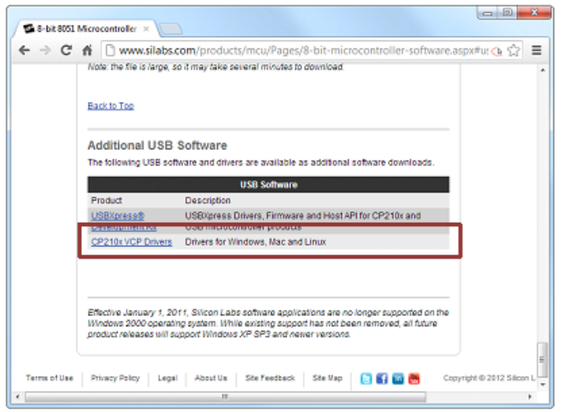
A. Getting Started

1 Navigate to the www.silabs.com/mcudownloads website and click the USB Software & Drivers link to download the VCP drivers.



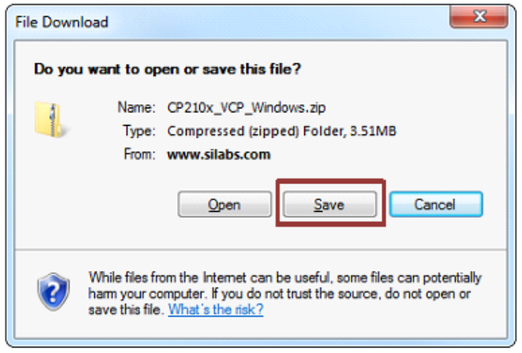
http://www.silabs.com/mcudownloads

2 Click the link to the CP210x VCP Drivers.

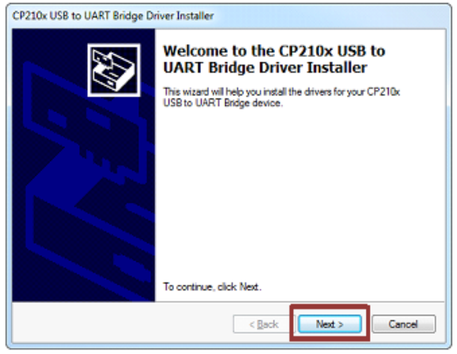


3 Download the Virtual COM Port Driver for the operating system used on the PC. The website lists the available operating systems supported. Click the link that applies. Save the file, then run the executable. Follow the installer directions and accept the license agreement.

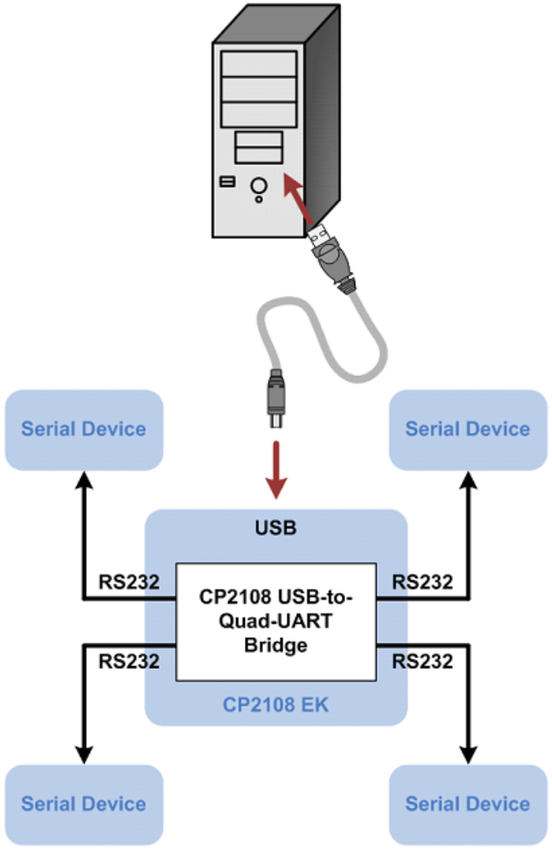
4 For the Windows driver, save the zip file, then open the zip file and run the executable.



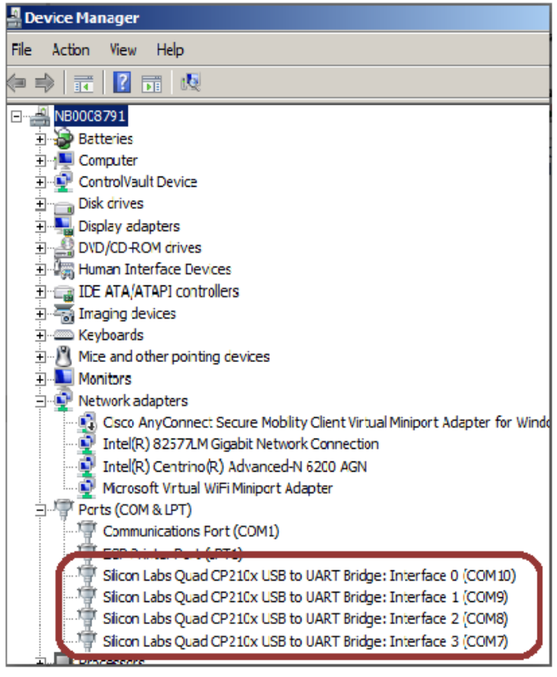
5 Click on Next and accept the license agreement. The installer may prompt to restart the PC when installation completes.



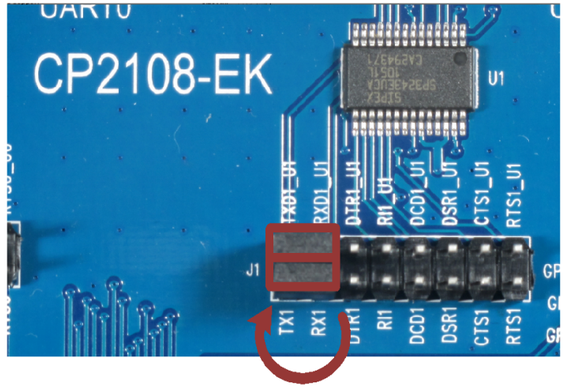
6 Connect the CP2108 evaluation board to a PC as shown using the USB Cable. Connect the RS232 serial cables to the DB9 connectors on the CP2108 with the end attachments connecting to the target serial devices.



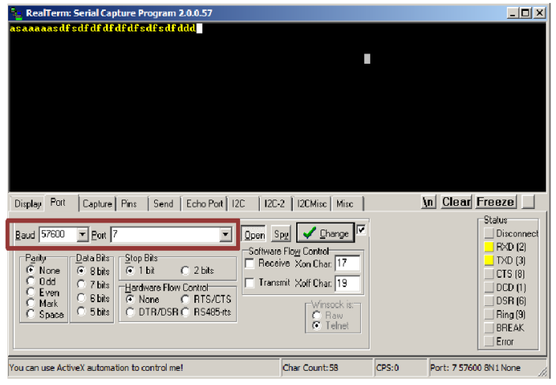
7 The CP2108 will appear as four COM ports in the Device Manager in Windows. The CP2108 functions identically to a COM port from the reference point of both the host application and the serial device, and it can support serial device control requests defined in the Microsoft Win32® Communications API.



8 Jumper the RX and TX pins on the evaluation board together on the desired port to perform a loop back test.



9 In Windows, open a serial terminal program to verify the CP2108 UART functionality.
Set the Baud Rate, and choose the port from one of the four COM ports from Device Manager.



B. Relevant Documentation

Application Notes:
www.silabs.com/appnotes

- **AN721:** CP210x/CP211x Device Customization Guide
- **AN571:** CP210x Virtual COM Port Interface
- **AN335:** USB driver Installation Utility
- **AN220:** USB Driver Customization
- **AN197:** Serial Communications Guide for the CP210x

VCP Drivers:
http://www.silabs.com/mcudownloads

CP2108 Landing Page:
http://www.silabs.com/products/interface/Pages/CP2108EK.aspx

Datasheet:
http://www.silabs.com/Support%20Documents/TechnicalDocs/CP2108.pdf

Evaluation Kit Users Guide:
http://www.silabs.com/Support%20Documents/TechnicalDocs/CP2108-EK.pdf

MCU Knowledge Base:
www.silabs.com→Support→Knowledge Base

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