

- The CP210x Evaluation Kits contain the following:
- CP210x evaluation board (CP2104 board pictured as an example)
- required cables (USB or RS232 serial)
- DVD
- Quick Start Guide (this document)

The CP210x 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. The CP210x devices include a USB 2.0 full-speed function controller, USB transceiver, EEPROM or One-Time Programmable ROM, and one or more UART interfaces.

CP210X USB-TO-UART EVALUATION KIT QUICK-START GUIDE



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User's use of this EVB/Kit is conditioned upon acceptance of the foregoing conditions. If User is unwilling to accept these conditions, User may request a refund and return the EVB/Kit to Silicon Labs in its original condition, unopened, with the original packaging and all documentation to:

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

A. Getting Started

1 Insert the DVD included in the kit to install the CP210x-related software. The latest version of this installer can also be found on the Silicon Labs website: www.silabs.com/interface-software.

OR

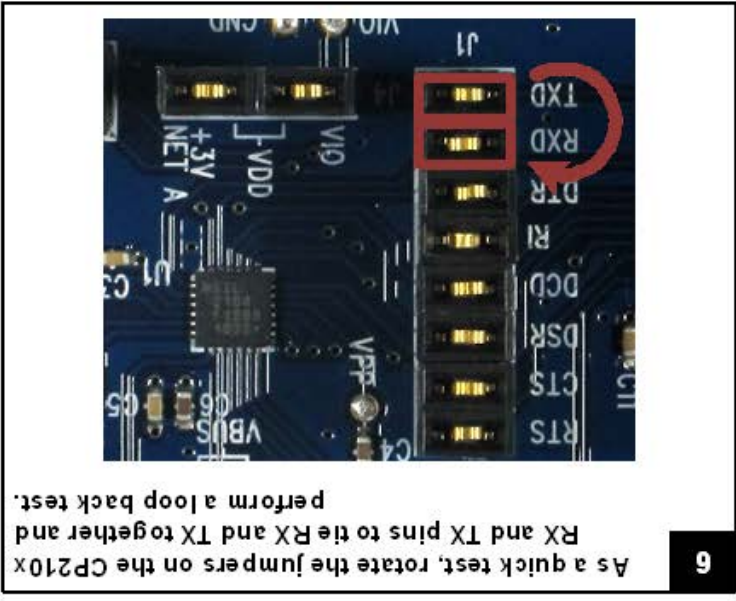
| Platform | Installers | Release Notes |
|----------|--------------------------|-------------------------------|
| Windows | Download | Release Notes |
| Mac | Download | Release Notes |
| Linux | Download | Release Notes |

<http://www.silabs.com/interface-software>

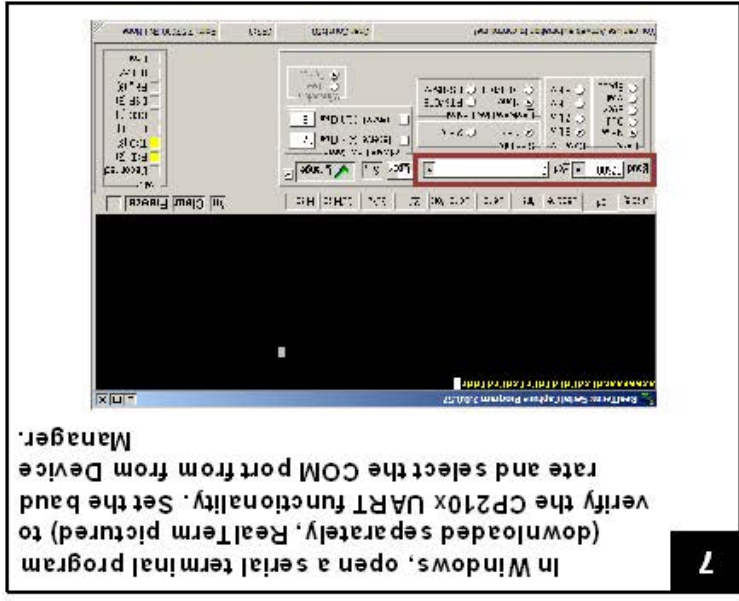
2 After inserting the DVD or downloading the SDK, run the installer. Click **Next** to proceed through the installer steps.

Note: Windows installation process shown.

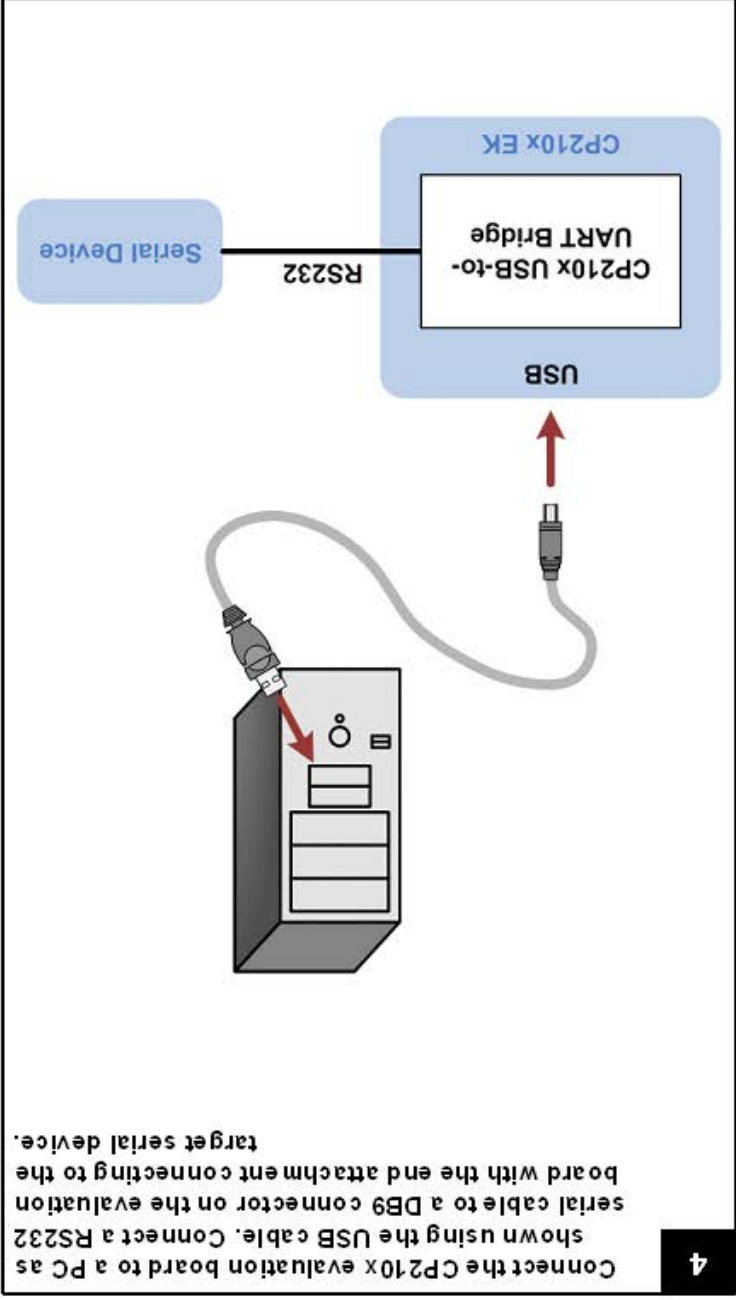
3 If on a Windows PC, the SDK installer will detect the current operating system and automatically start installing the drivers. Click **Next** to install the driver to the system.



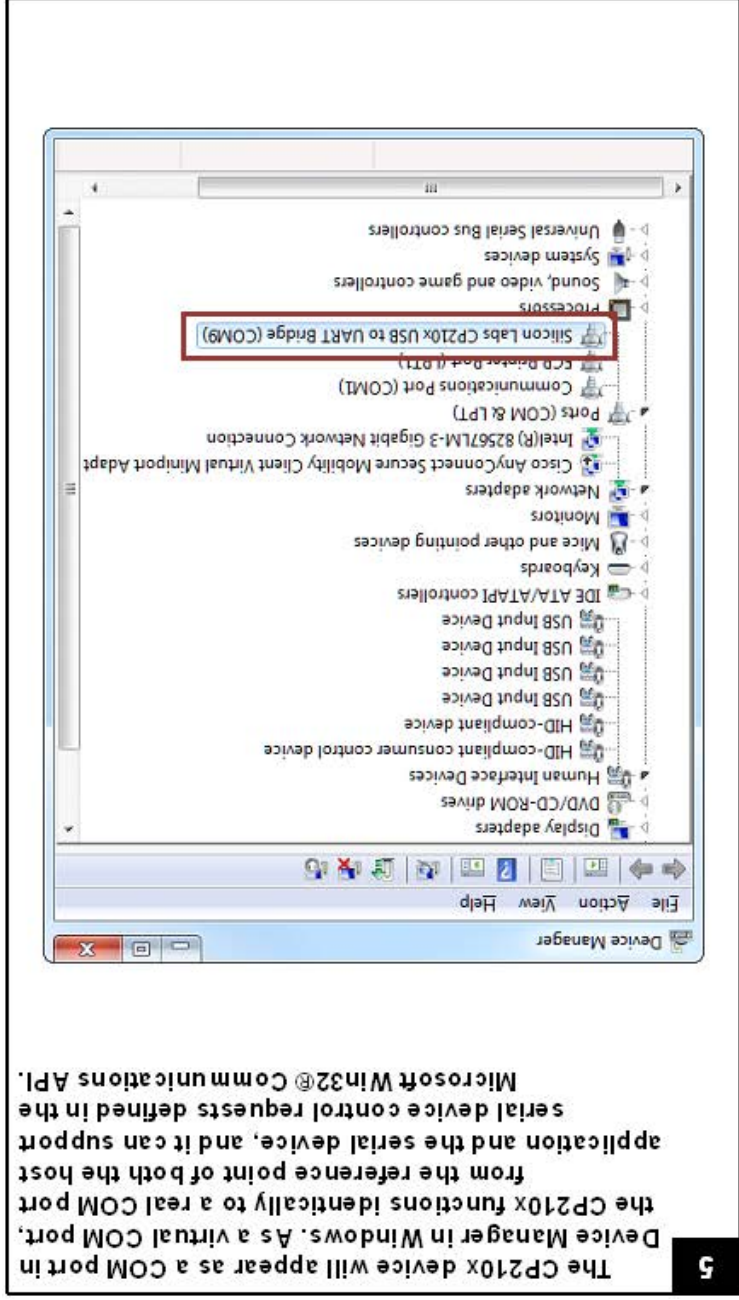
6 As a quick test, rotate the jumpers on the CP210x RX and TX pins to the RX and TX together and perform a loop back test.



7 In Windows, open a serial terminal program (downloaded separately, RealTerm pictured) to verify the CP210x UART functionality. Set the baud rate and select the COM port from from Device Manager.



4 Connect the CP210x evaluation board to a PC as shown using the USB cable. Connect a RS232 serial cable to a DB9 connector on the evaluation board with the end attachment connecting to the target serial device.



5 The CP210x device will appear as a COM port in Device Manager in Windows. As a virtual COM port, the CP210x functions identically to a real 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 Access all CP210x-related material directly from the website or from the SDK installed to `c:\silabs\mcu\cp210x_sdk` by default. Software can be accessed from the Start menu.

Start → All Programs → Silicon Labs → CP210x Software Development Kit

- Documentation
- Data Sheets
- Application Notes
- Users Guides
- and more
- AN721: Device Customization Utility
- AN720: Virtual COM Port (VCP) Drivers
- Software
- AN197: Serial COM Port Examples
- AN220: Driver Customization Utility (Windows)
- AN223: GPIO Read/Write Examples

B. Relevant Documentation

Application Notes: www.silabs.com/appnotes

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

Software Development Kit: <http://www.silabs.com/interface-software>

VCP Drivers: <http://www.silabs.com/interface-software>

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

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

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

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

Contact an Applications Engineer: www.silabs.com → Support → Contact Technical Support

Quality Documents: www.silabs.com/quality

