

Crash Course:Measurements, Sensors and Data Logging

Arduino IDE Install & Finding COM Ports

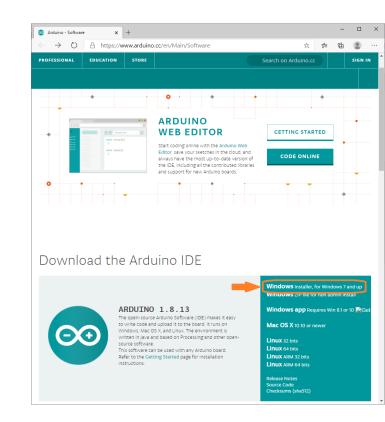
PC, MAC & Chromebook

PC / Windows Instructions



Download & Install IDE

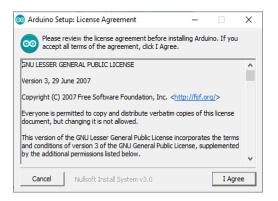
- Download https://www.arduino.cc/en/Main/Software
 - Windows Installer for windows 7 and up
- Install Arduino
 - Find download location or open installer from your browser

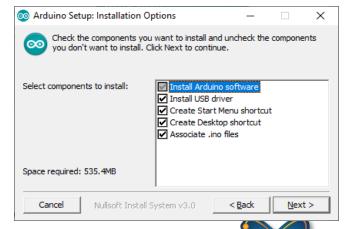




Download & Install IDE – Part 1

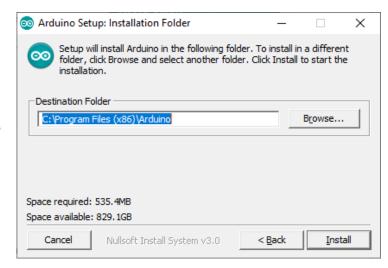
- Install Arduino
 - Find download location or open installer from your browser
 - Agree to the License Agreement
 - Default Options are fine, click Next





Download & Install IDE – Part 2

- Install Arduino
 - Default Destination Folder is fine. Click Install

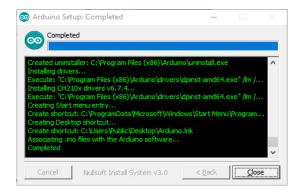


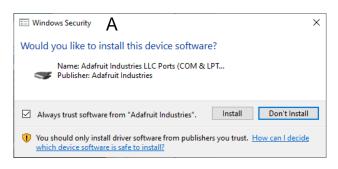


Install Drivers & Completion

- A) Install COM port driver. Click Install
- B) Install USB driver (Arduino srl). Click Install
- C) Install USB driver (Arduino LLC). Click Install

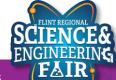
Install Complete. Click Close











- Download and install CP2012 USB Driver
- https://www.silabs.com/products/develop ment-tools/software/usb-to-uart-bridgevcp-drivers
 - Select the version of your Windows version
 - This will likely be downloaded to your Downloads folder

Silicon Labs » Products » Development Tools » Software » USB to UART Bridge VCP Drivers

CP210x USB to UART Bridge VCP Drivers

The CP2 fox USB to UAET Bridge Virtual COM Port (VCP) drivers are required for device operation as a Virtual COM Port to facilitate host communication with CP210x products. These devices can also interface to a host using the direct access driver. These drivers are static examples detailed in application note 197. The Serial Communications Guide for the CP210x, download an example below.

AN197: The Serial Communications Guide for the CP210x

Download Software

The CP210x Manufacturing DLL and Runtime DLL have been updated and must be used with v6.0 and later of the CP210x Windows VCP Driver. Application Note Software downloads affected are AN144SW.zip, AN205SW.zip and AN225SW.zip, If you are using a 5x driver and need support you can download archived Application Note Software.

Legacy OS software and driver package download links and support information >

Download for Windows 10 Universal (v10.1.9)

Note: The latest version of the Universal Driver can be automatically installed from Windows Update

Platform	Software	Release Notes
M Windows 10 Universal	Download VCP (2.3 MB)	Download VCP Revision History

Download for Windows 7/8/8.1 (v6.7.6)

	Platform	Software	Release Notes
	Mindows 7/8/8.1	Download VCP (S.3 MB) (Default)	Download VCP Revision History
	Windows 7/8/8.1	Download VCP with Serial Enumeration (5.3 ME) Learn More »	Download VCP Revision History



Extract the downloaded folder

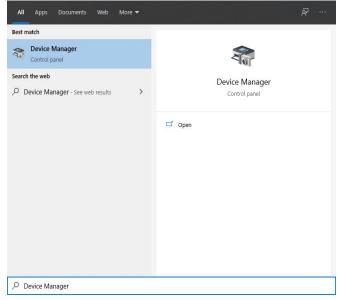
• Install the driver by double clicking on the driver

CP210xVCPInstaller_64.exe

PC > Windows7_OS (C:) > Users > MSDMikko > Downloads > CP210x_Universal_Windows_Driver >					
Date modified	Туре	Size			
10/16/2020 2:19 PM	File folder				
10/16/2020 2:19 PM	File folder				
10/16/2020 2:19 PM	File folder				
10/16/2020 2:19 PM	File folder				
10/16/2020 2:19 PM	Text Document	25 KB			
10/16/2020 2:19 PM	Application	1,026 KB			
10/16/2020 2:19 PM	Application	903 KB			
10/16/2020 2:19 PM	XML Document	12 KB			
10/16/2020 2:19 PM	Security Catalog	13 KB			
10/16/2020 2:19 PM	Setup Information	11 KB			
10/16/2020 2:19 PM	Text Document	9 KB			
	Date modified 10/16/2020 2:19 PM 10/16/2020 2:19 PM	Date modified Type 10/16/2020 2:19 PM File folder 10/16/2020 2:19 PM Application 10/16/2020 2:19 PM Application 10/16/2020 2:19 PM XML Document 10/16/2020 2:19 PM Security Catalog 10/16/2020 2:19 PM Setup Information			

Determining & Selecting the COM Port

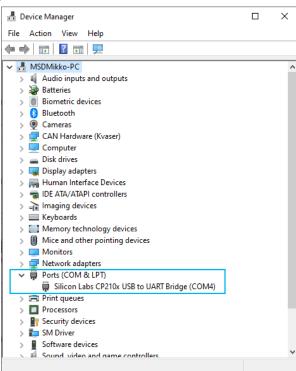
- Open Device Manager
 - From the start menu, search for *Device Manager*





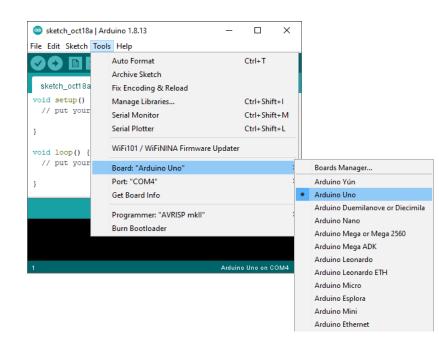
Determining & Selecting the COM Port

- Search for Ports (COM & LPT)
 - Look for:
 - Silicon Labs CP210x USB to UART Bridge
 - The COMX listed is the port.
 - In this instance COM4 is the port



Setting the Board & Port in Arduino IDE

- Open the Arduino IDE
- Set the Board
 - Tools -> Board -> Arduino Uno
- Set the Port
 - Tools -> Port -> COMX
 - The port is the one determined previously



Mac Instructions

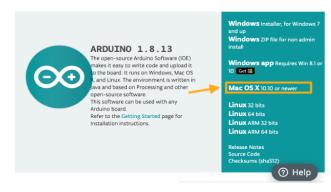


Download & Install IDE

- Download https://www.arduino.cc/en/Main/Software
 - Mac OS X 10.10 or newer



Download the Arduino IDE





Install Arduino IDE

• Find *Arduino.app* in your *Downloads* folder and click and drag it to your *Applications* folder.



Download and install CP2012 USB Driver

https://www.silabs.com/products/development-tools/software/usb-touart-bridge-vcp-drivers

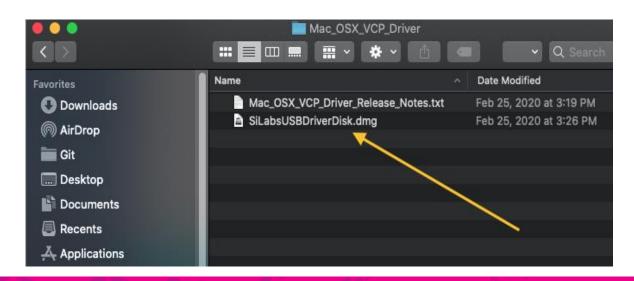
Click on Download CVP under Download for Macintosh OSX (v5.3.5)



Download for Macintosh OSX (v5.3.5)

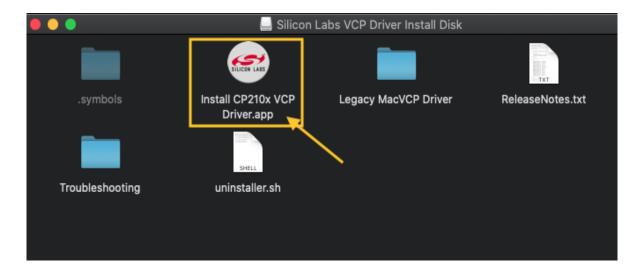


- Find and open the folder *Mac_OSX_VCP_Driver* in the *Downloads* folder.
- Double click on SiLabsUSBDriverDisk.dmg





• Double click on Install CP210x VCP Driver.app



Follow the installation instructions.

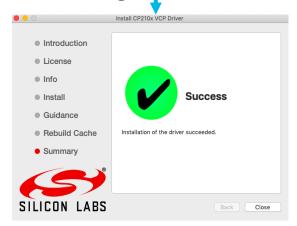
Click on Open Security Preferences

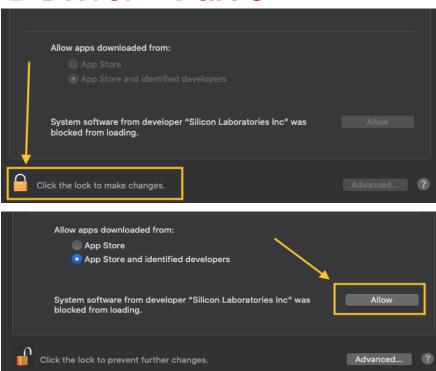






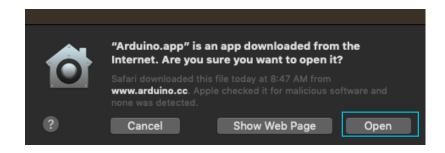
- Select the Lock Icon in the corner and then select Allow
- It may take some time to rebuild the cache. When complete you'll get a success message.





Start the Arduino IDE

- Open Arduino.app from you applications folder by double clicking on it.
- Click Open If you see the message: Arduino.app" is an app downloaded from the Internet. Are you sure you want to open it.

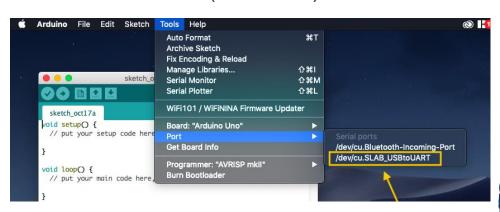




Setting the Board and Port in Arduino IDE

- Select the Board
 - Tools -> Board -> Arduino Uno

- Select the Port
 - Tools -> Port -> dev/cu.SLAB_USBtoUART (or similar)



sketch oct17a

void setup() {
 // put your setup code

void loop() {

// put your main code

Auto Format

Archive Sketch
Fix Encoding & Reload

Serial Monitor

Serial Plotter

Get Board Info

Burn Bootloader

Port

Manage Libraries...

Board: "Arduino Uno"

Programmer: "AVRISP mkll"

WiFi101 / WiFiNINA Firmware Updater

#T

1器位

M器位

☆器L

Boards Manager...

Arduino Duemilanove or Diecimila

Arduino Yún

Arduino Nano

✓ Arduino Uno



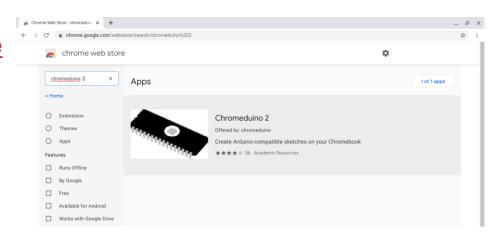
chromebook

Chromebook Instructions



Download Chromeduino 2 App

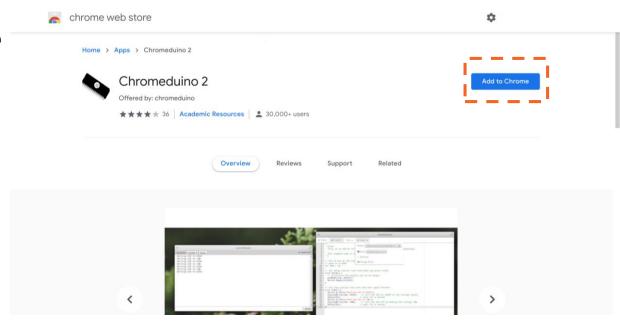
- Click on the link to go to the Chromeduino 2 App
 - https://chrome.google.com/webstore/search/chromeduino%202
- OR Go to the chrome web store
 - https://chrome.google.com/webstore
 - Search for chromeduino 2
- Click on the Chromeduino 2 app





Download Chromeduino 2 App

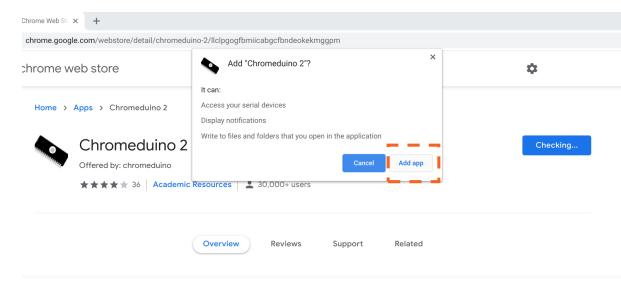
Click on Add to Chrome



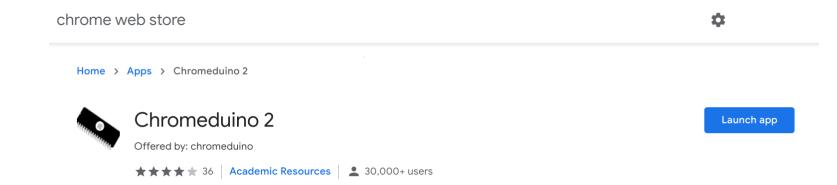


Download Chromeduino 2 App

Confirm install by clicking Add App

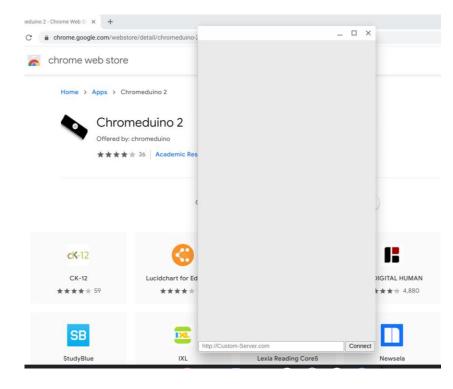


Launch Chromeduino 2 by clicking Launch App



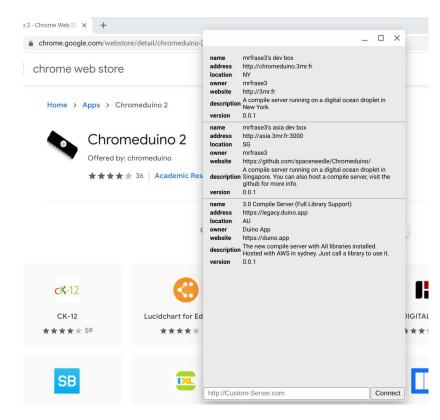


 A gray box will appear. It may sit blank for ~30 seconds.



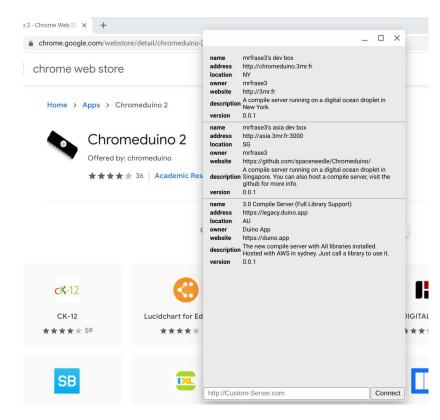


 When populated, select a compile server by clicking. I selected the top one.





 When populated, select a compile server by clicking. I selected the top one.

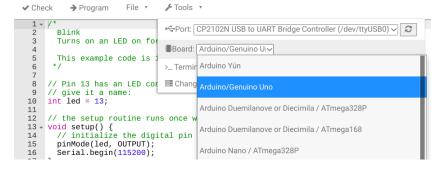




Setting the Board and Port in Chromeduino 2

- Select the Board
 - Tools -> Board -> Arduino / Genuino Uno

- Select the Port
 - Tools -> Port -> CP2102N USB to UART Bridge Controller (dev/ttyUSB0)
 - or something similar



Notes

- Version 1.0
 - Published 2020/10/18, J. Krell

