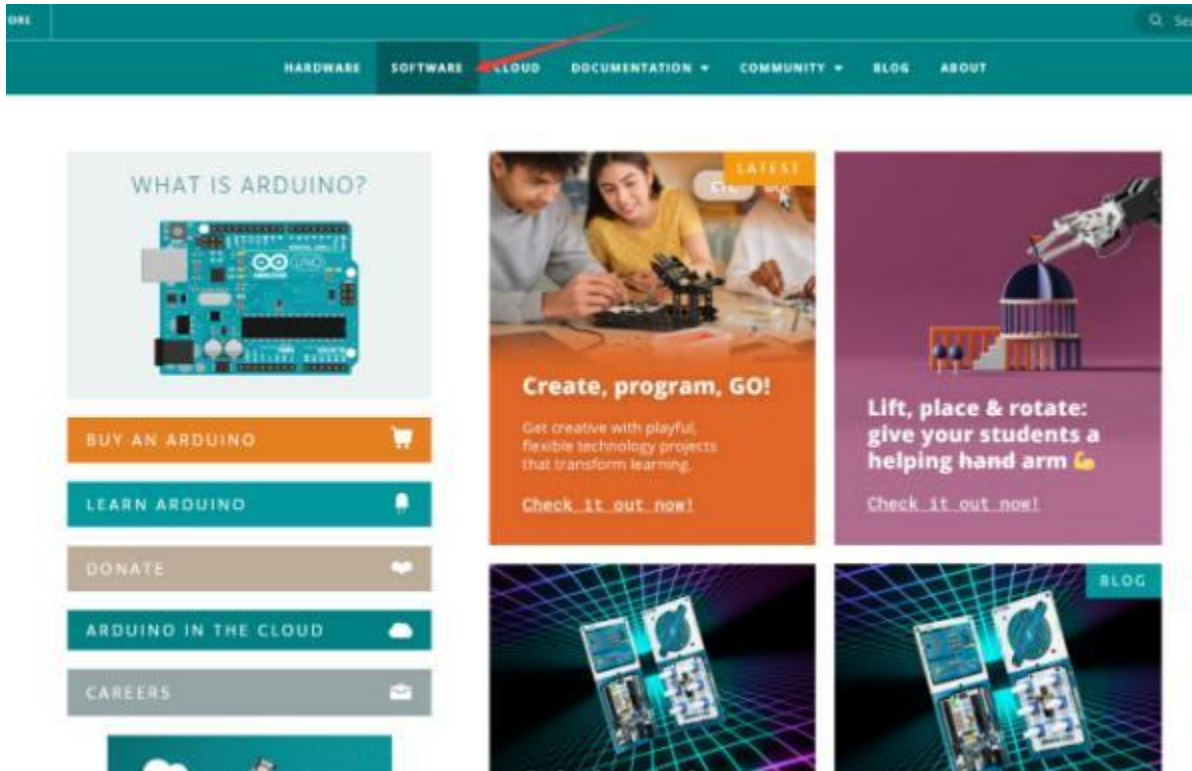# How to Install Arduino IDE and Driver

**Installing Arduino IDE**

When you get control board, you need to download Arduino IDE and driver firstly.

You could download Arduino IDE from the official website:https://www.arduino.cc/, click the **SOFTWARE** on the browse bar to enter download page, as shown below:



There are various versions of IDE for Arduino. Just download a version compatible with your system. Here we will show you how to download and install the windows version of Arduino IDE.



You can choose between the Installer (.exe) and the Zip packages. We suggest you use the first one that installs directly everything you need to use the Arduino Software (IDE), including the drivers. With the Zip package you need to install the drivers manually. The Zip file is also useful if you want to create a portable installation.

You just need to click JUST DOWNLOAD.

**Installing the driver for Windows system**

Let's install the driver of keyestudio V4.0 board. The USB-TTL chip on V4.0 board adopts CP2102 serial chip.

Windows system



You can download the driver of the CP2101 in the following link.

For Windows system, you can select the first driver to download and upzip it.
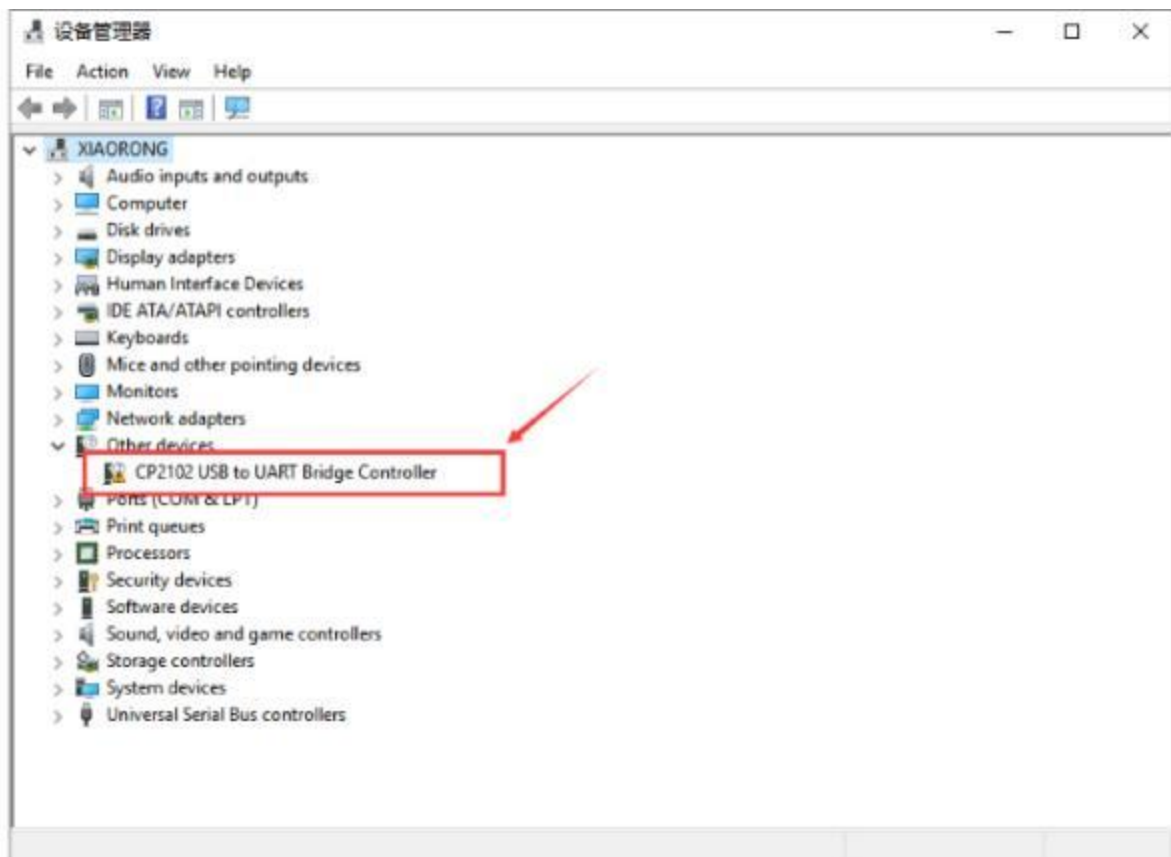
## Software · 11

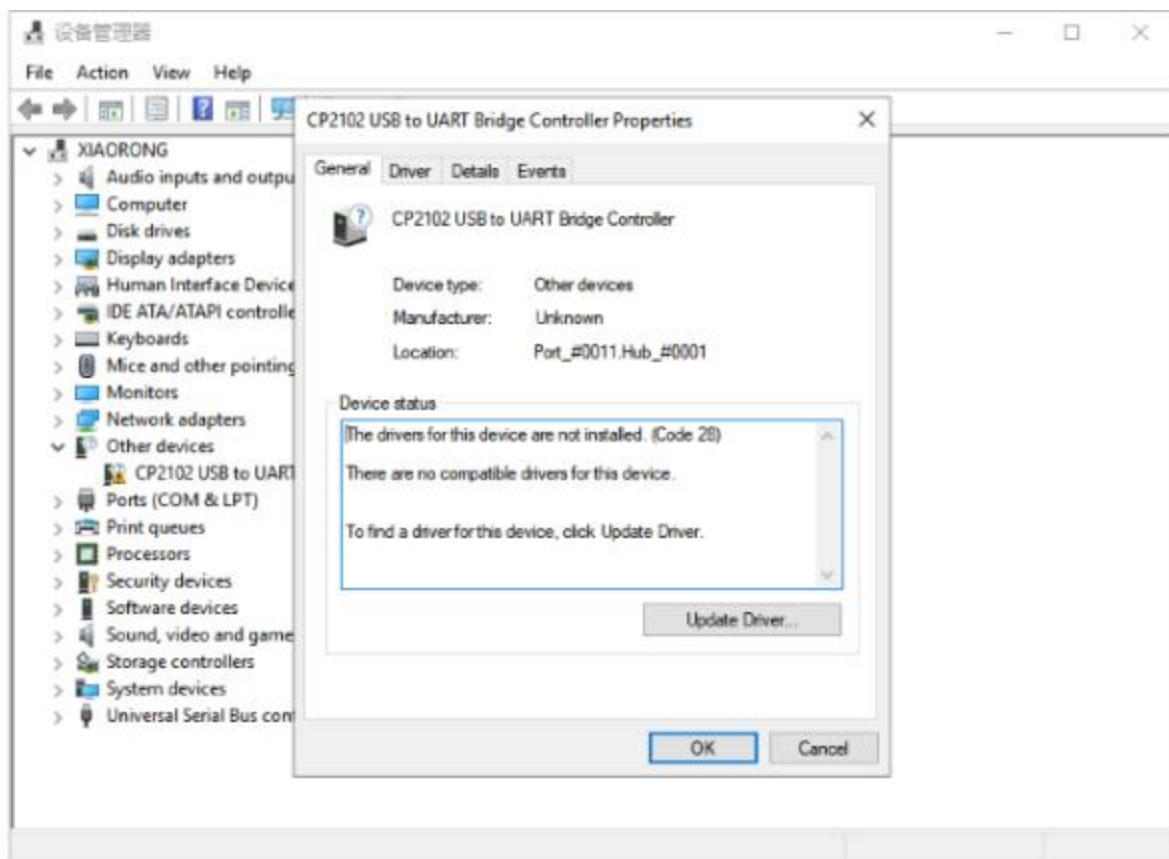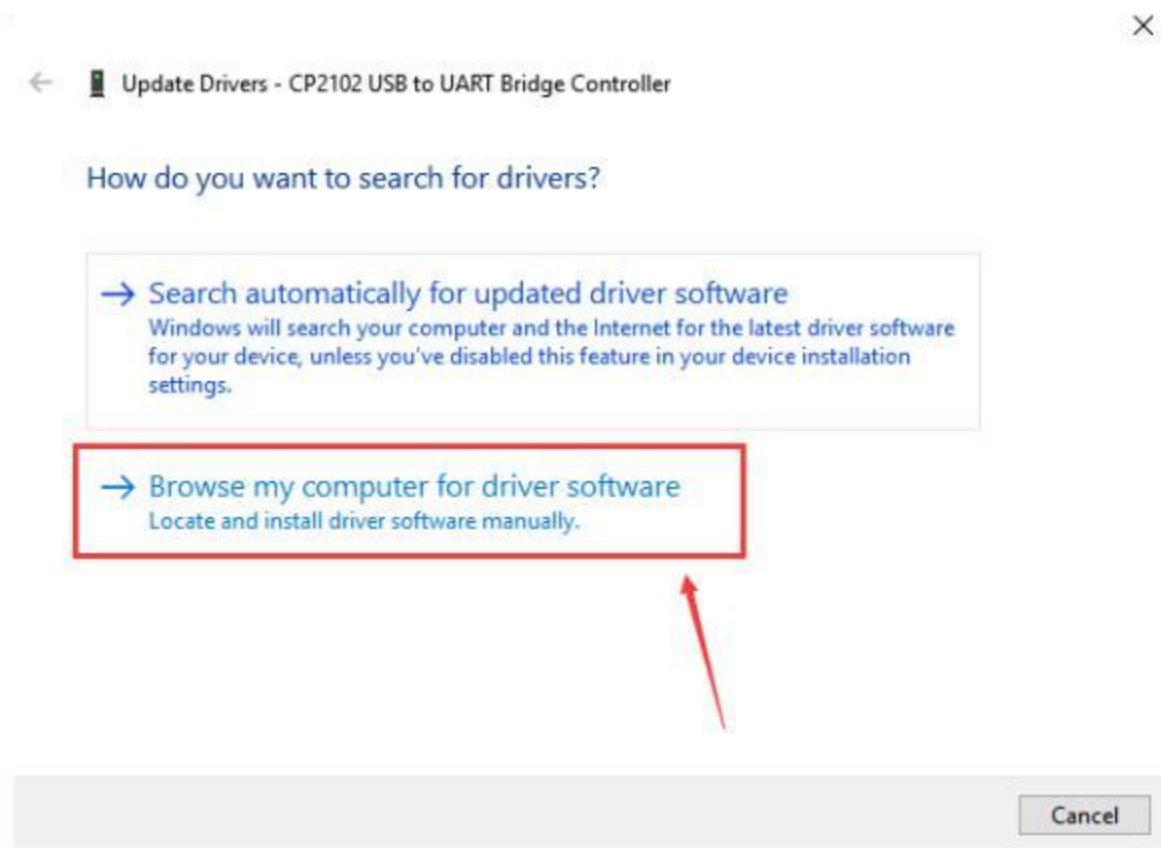| | | |
|---|---|---|
| CP210x Universal Windows Driver | | v11.2.0 10/21/2022 |
| CP210x VCP Mac OSX Driver | | v6.0.2 10/27/2021 |
| CP210x VCP Windows | | v6.7 9/4/2020 |
| CP210x Windows Drivers | | v6.7.6 9/4/2020 |
| CP210x Windows Drivers with Serial Enumerator | | v6.7.6 9/4/2020 |

Show 6 more Software



Then open the device manager of computer. Right click Computer----- Properties----- Device Manager
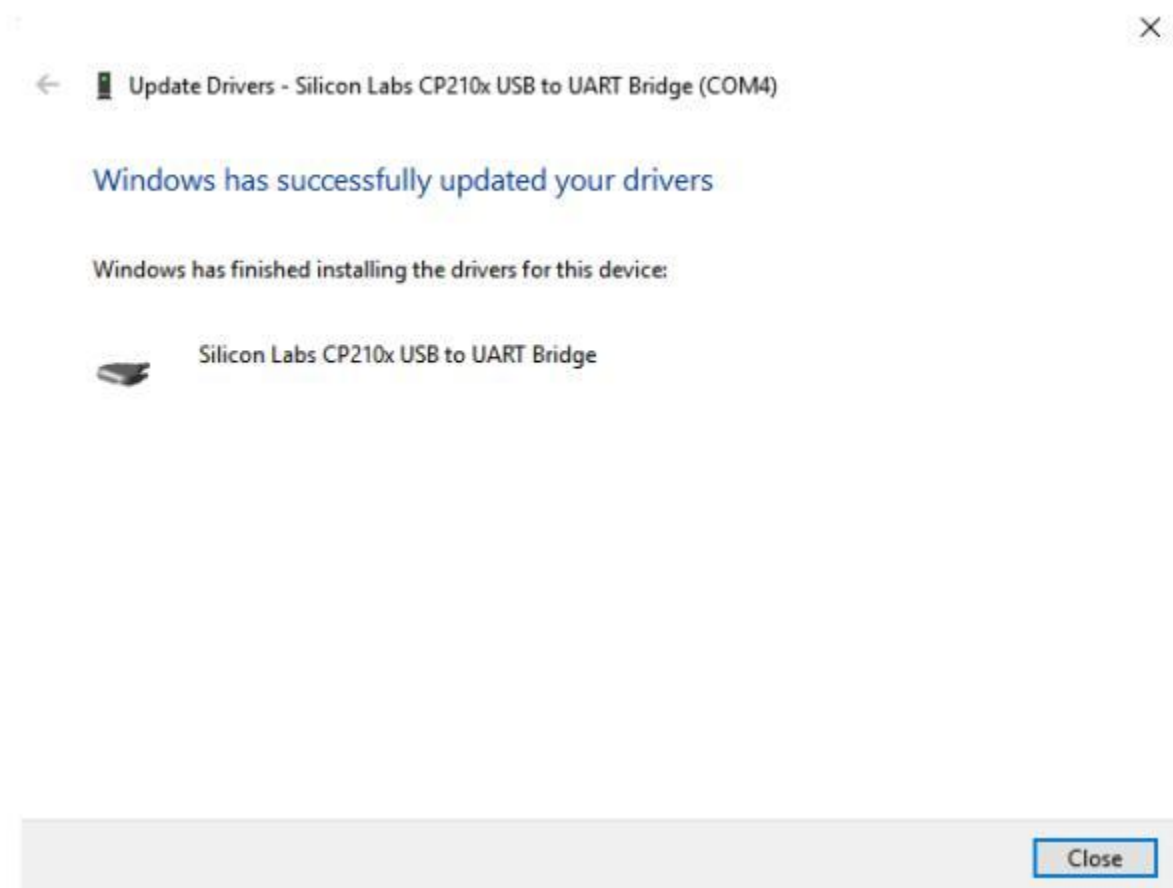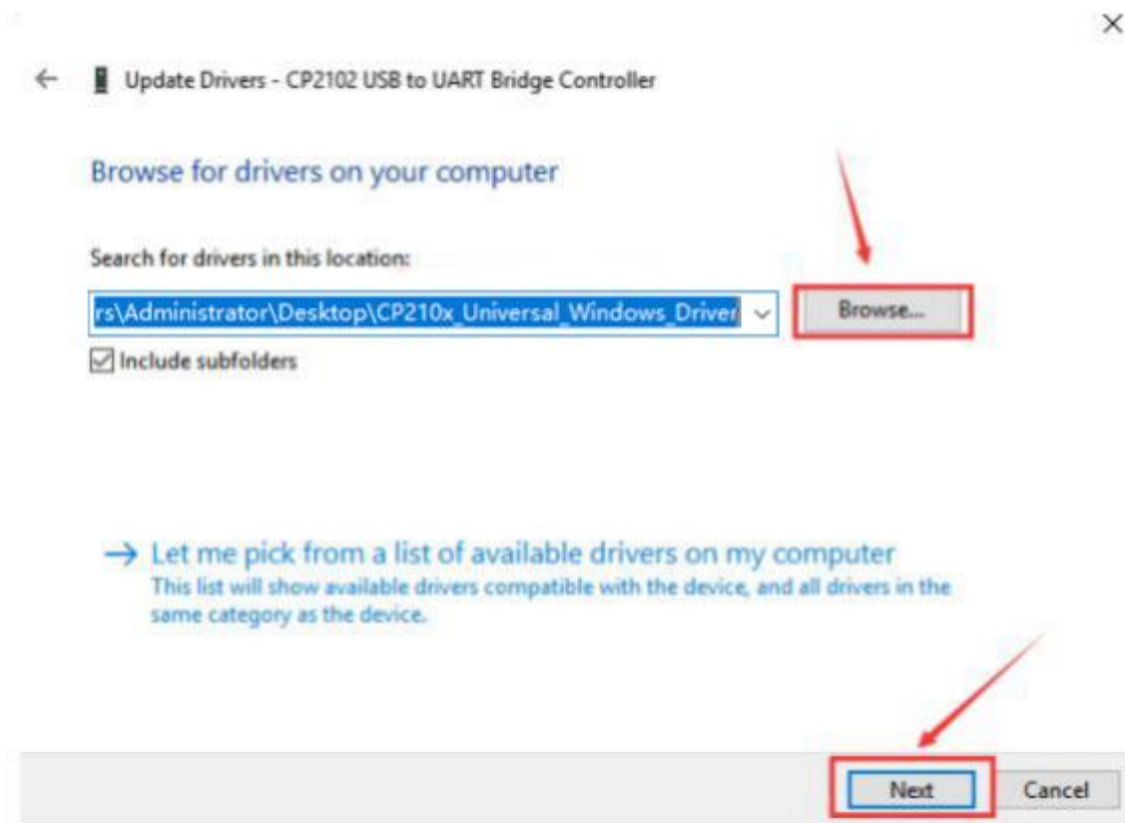


The yellow exclamation mark on the page implies that the driver of CP2101 isn't installed. Next, you should double-click the hardware to update the driver.
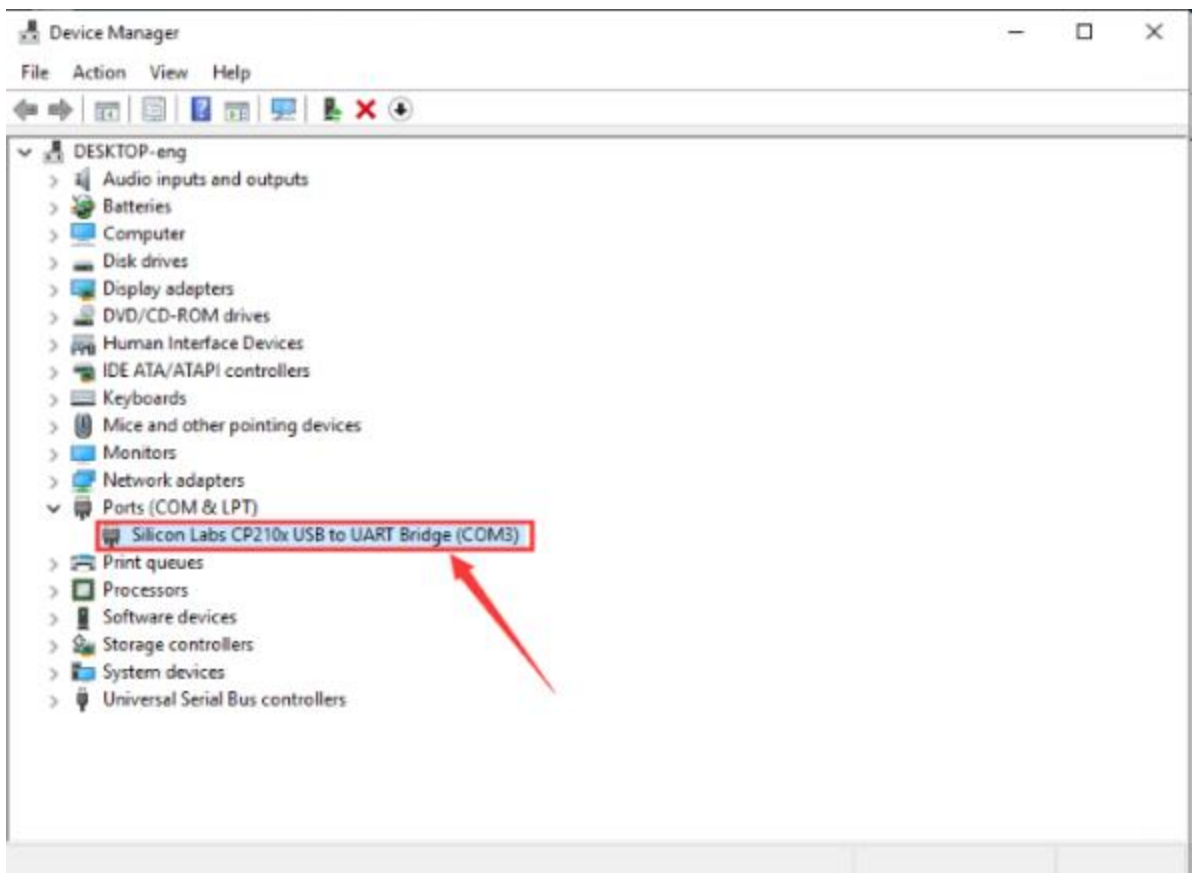
Click "OK" to enter the following page, click "browse my computer for updated driver software". As shown below:



Navigate to the CP210x_Universal_Windows_Driver unzip folder that you have downloaded and click Next.

Open device manager, you will find the yellow exclamation mark disappear. The driver of CP2102 is installed successfully.

**Installing the driver for MAC system**

**MAC system**



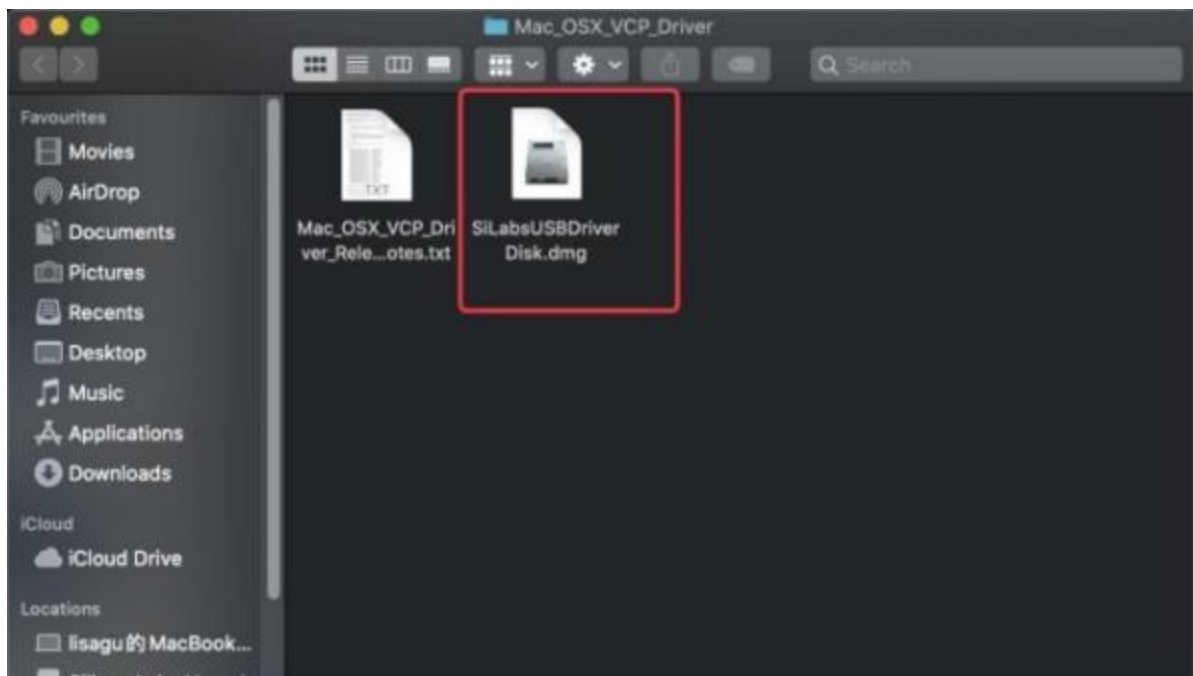You can download the driver of the CP2101 in the following link.

https://www.silabs.com/developers/usb-to-uart-bridge-vcp-drivers?tab=downloads

For MacOS system, you can select the this driver to download and upzip it.
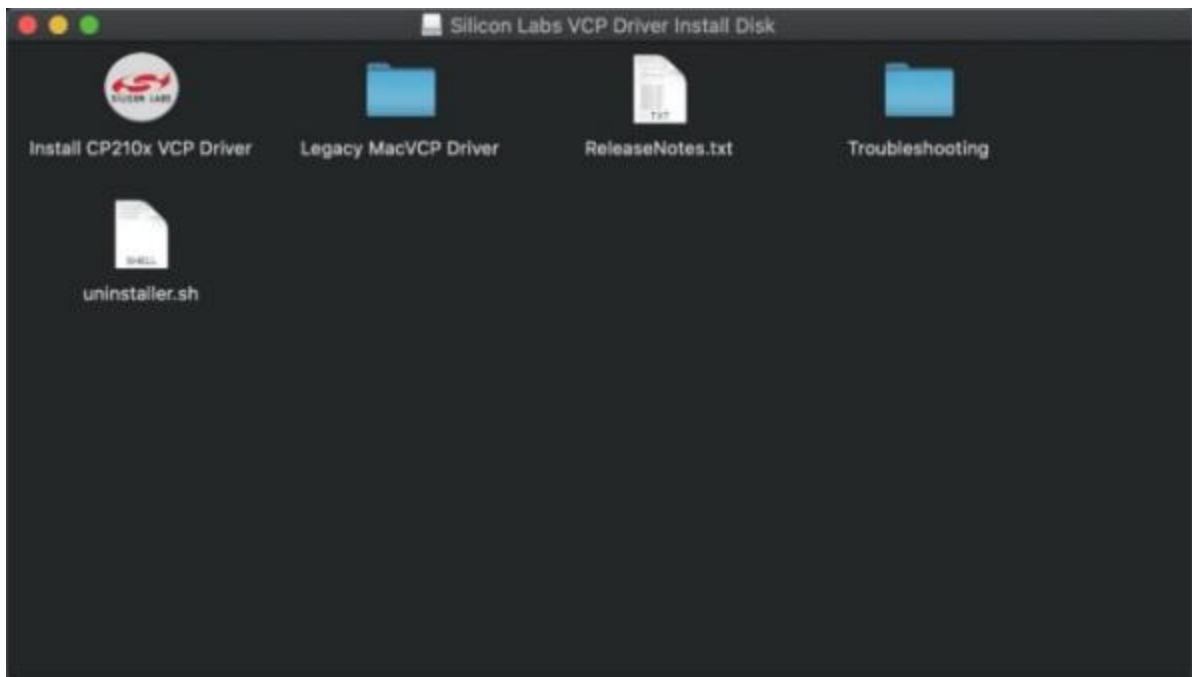
## Software · 11

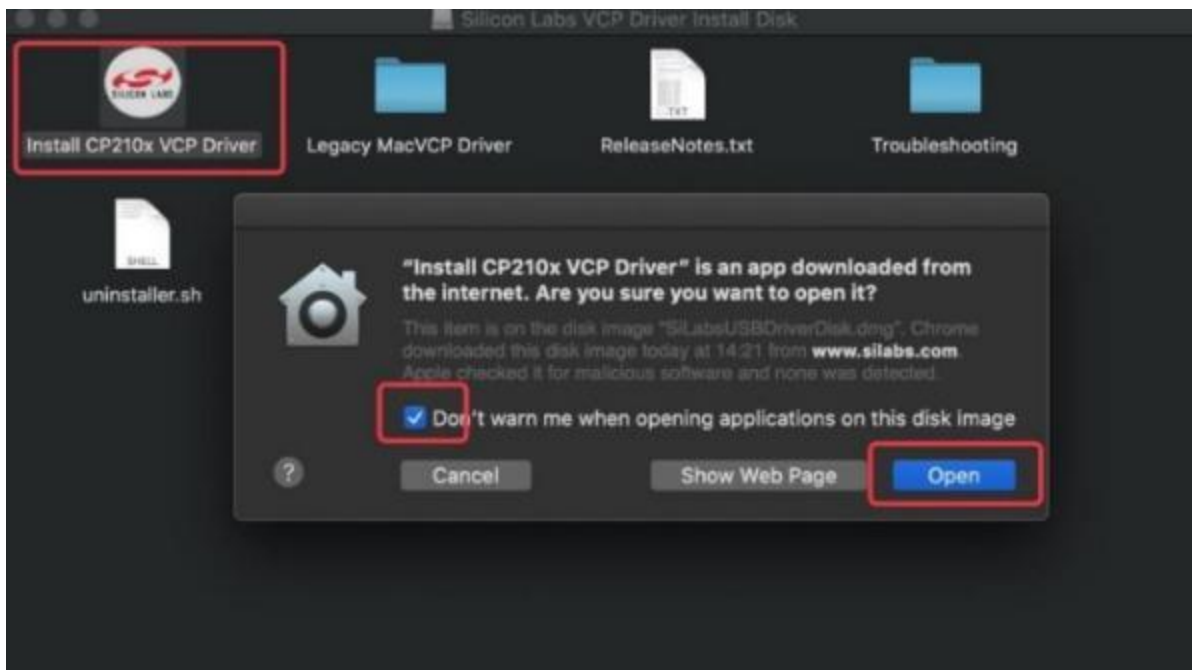| | |
|---|---|
| CP210x Universal Windows Driver | v11.2.0 10/21/2022 |
| CP210x VCP Mac OSX Driver | v6.0.2 10/27/2021 |
| CP210x VCP Windows | v6.7 9/4/2020 |
| CP210x Windows Drivers | v6.7.6 9/4/2020 |
| CP210x Windows Drivers with Serial Enumerator | v6.7.6 9/4/2020 |

Show 6 more Software

Open the driver folder and double-click SiLabsUSBDriverDisk.dmg file.



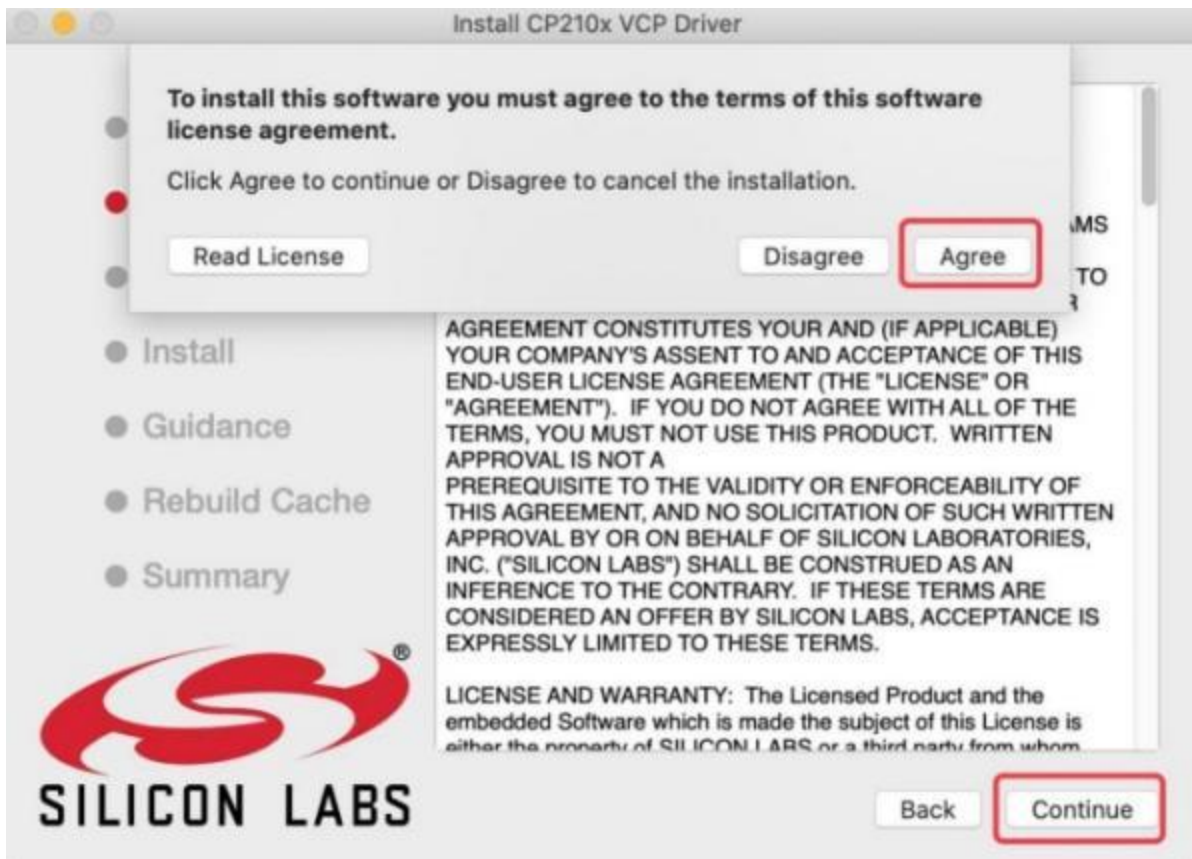You will view following files as follows:

Double-click Install CP210xVCP Driver, tick Don't warn me and click Open
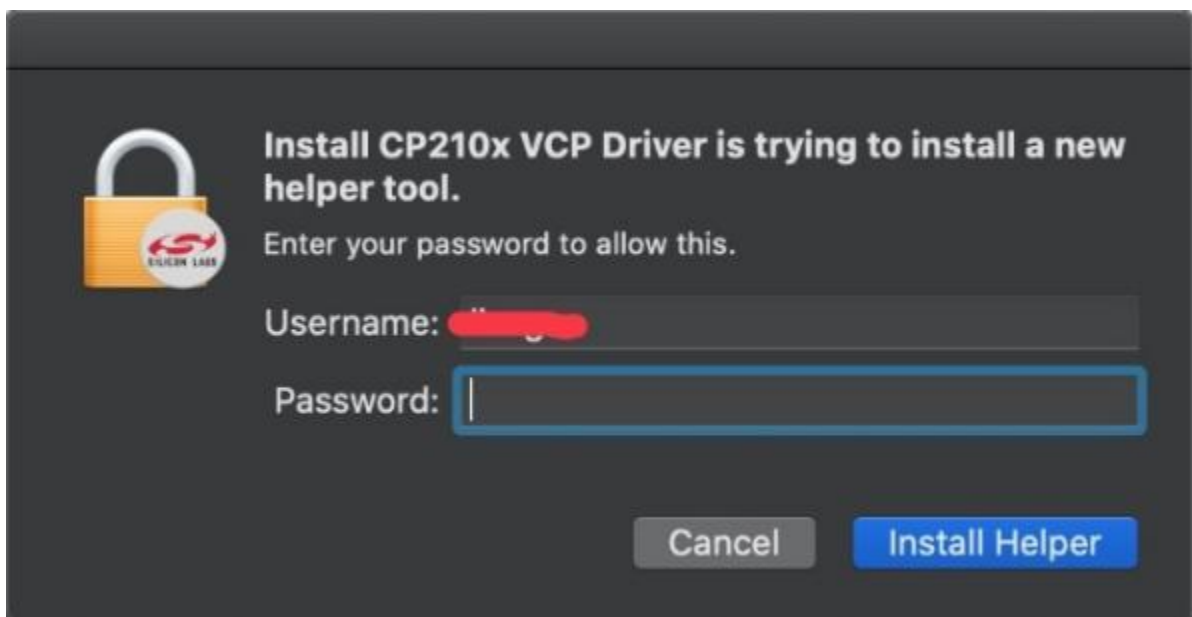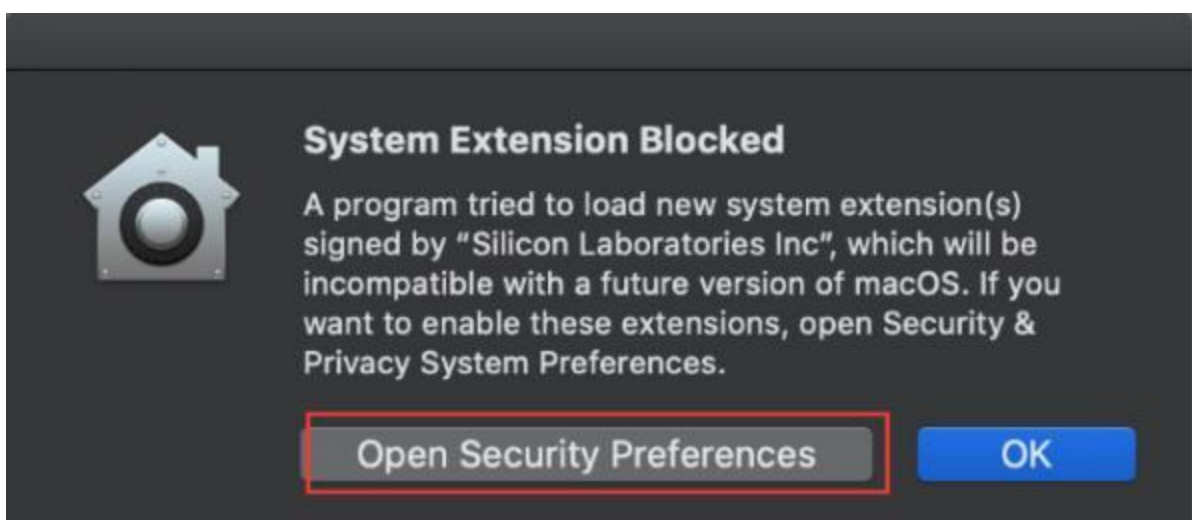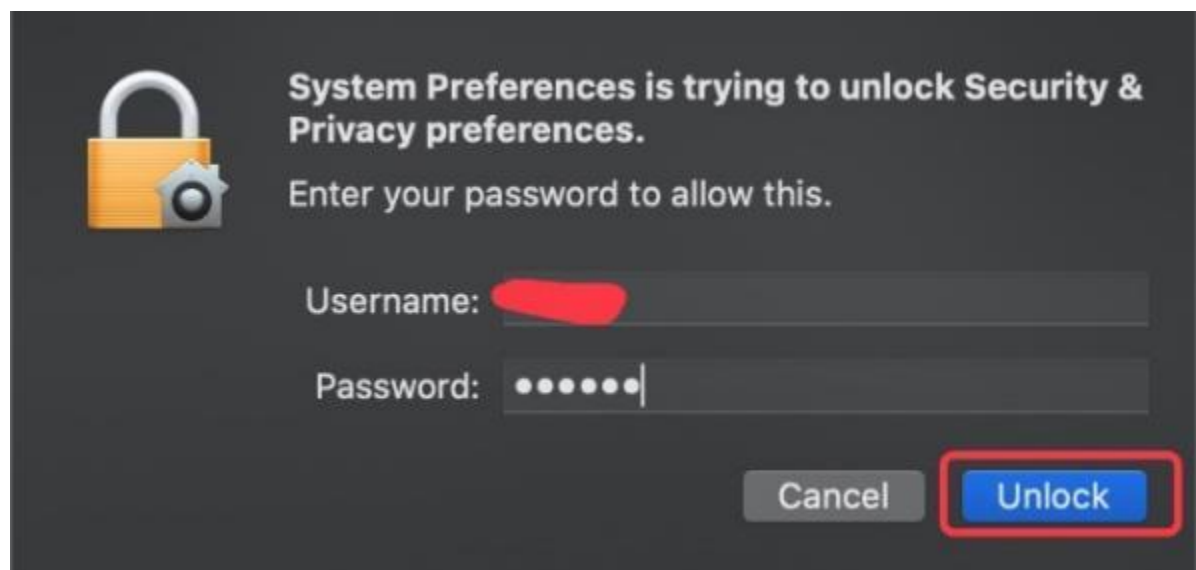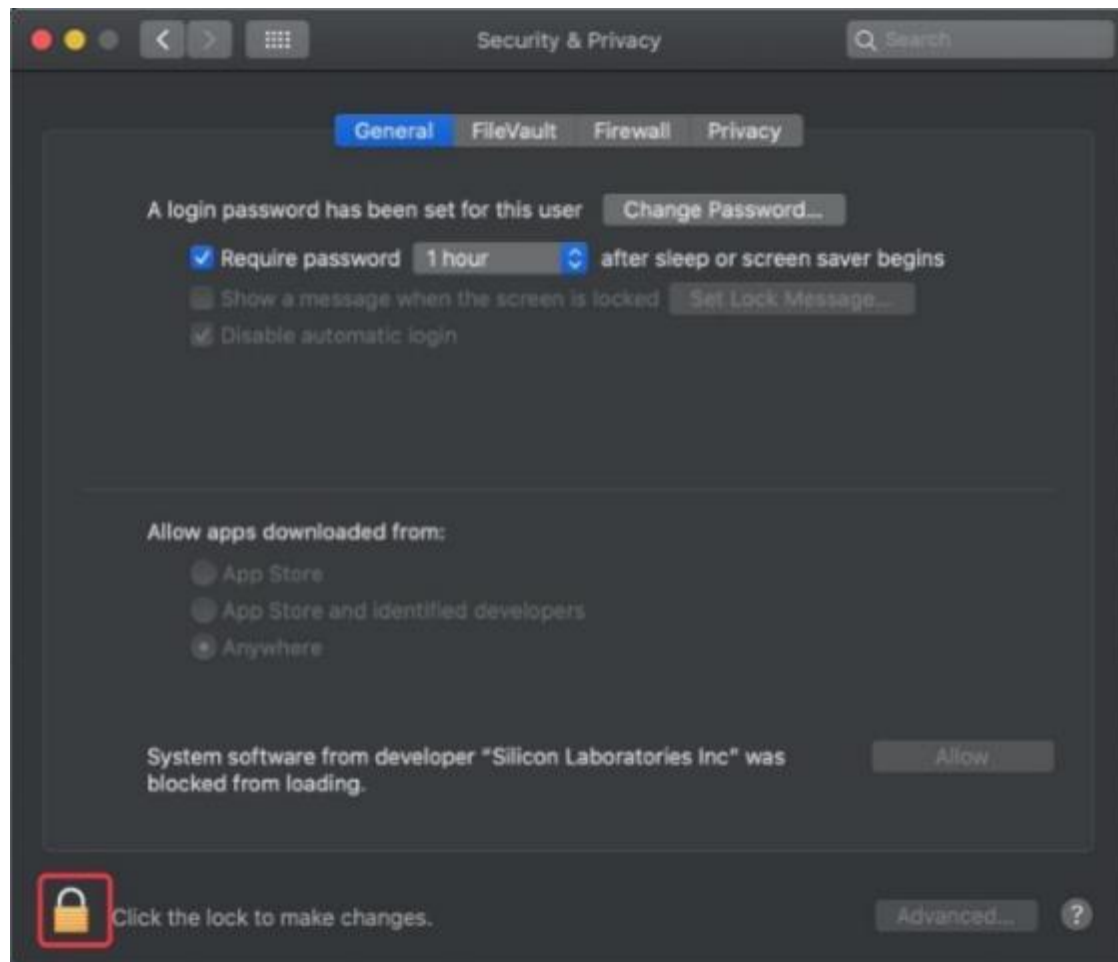


Click Continue

Click Continue and Agree
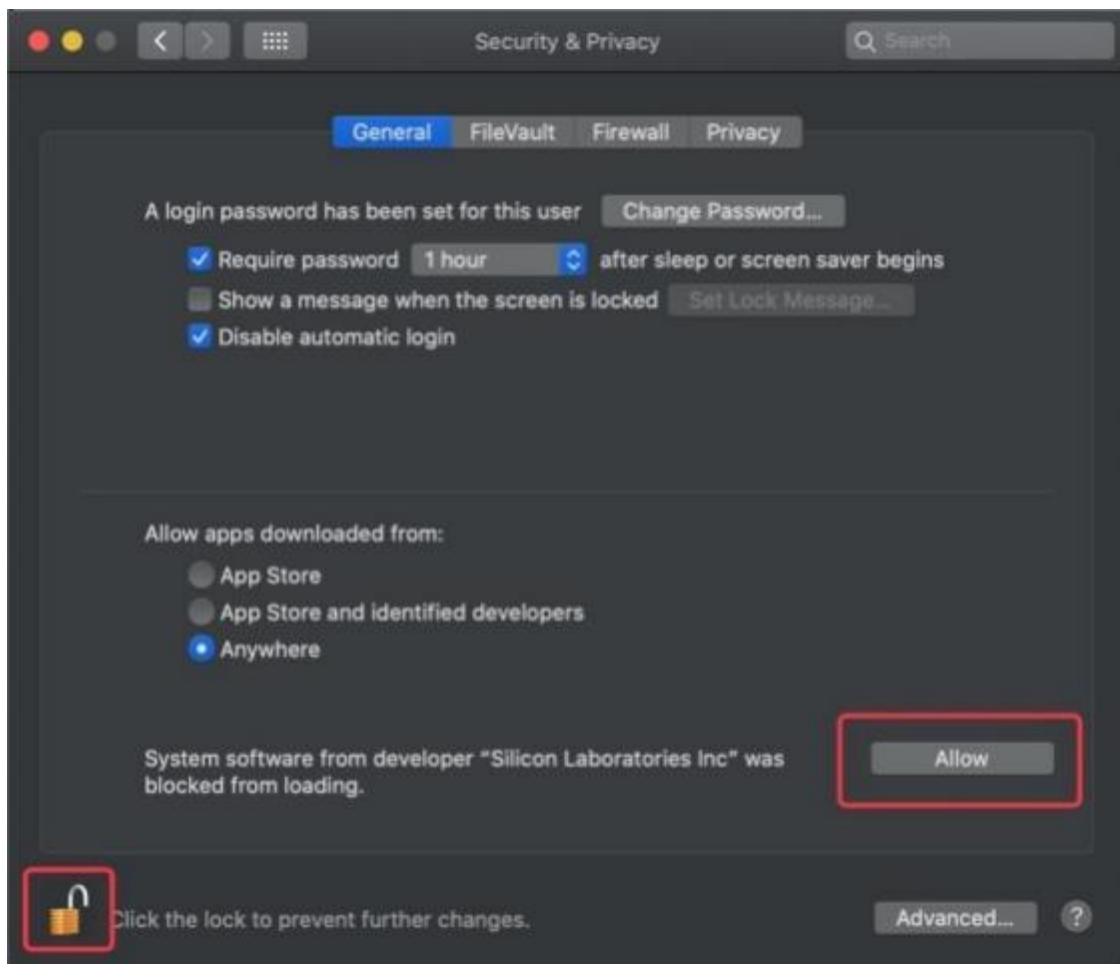


Click Continue and enter your user password.

Install CP210x VCP Driver

**Introduction**

**License**

**Info**

**Install**

**Guidance**

**Rebuild Cache**

**Summary**

SILICON LABS

**To Be Installed:** Version 5.3.5

**Currently Installed:** None

Version 5.3.5 will be installed in /Library/Extensions/.

You will be prompted to enter your password.

Back    Continue



**Install CP210x VCP Driver is trying to install a new helper tool.**

Enter your password to allow this.

Username:

Password:

Cancel    **Install Helper**

9.Select Open Security Preferences



**System Extension Blocked**

A program tried to load new system extension(s) signed by "Silicon Laboratories Inc", which will be incompatible with a future version of macOS. If you want to enable these extensions, open Security & Privacy System Preferences.

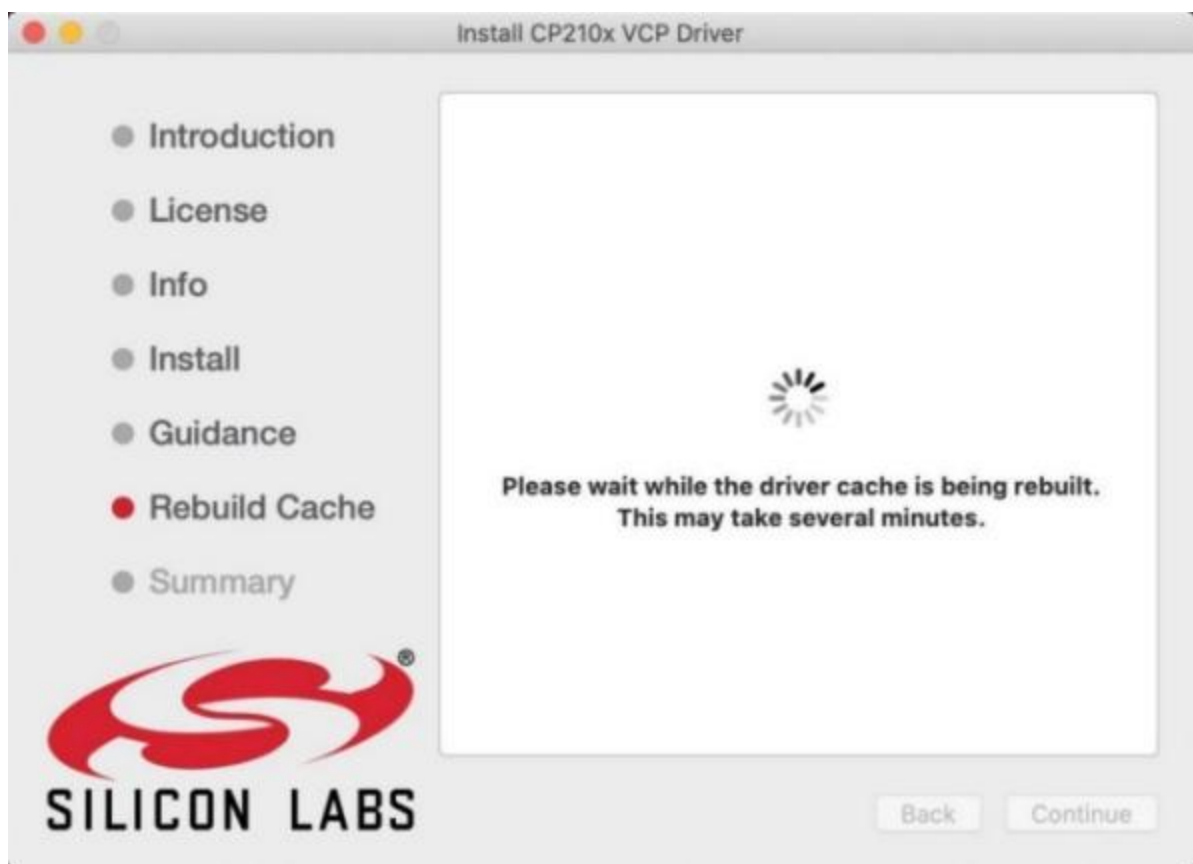Open Security Preferences    OK

Click the lock then enter your user's password to authorize.





Then click Allow

12.Back to installation page, and wait to install.



Successfully installe.