TechnoFíx UK

Driver installation instructions for USB cables SiLabs CP2102 chipset

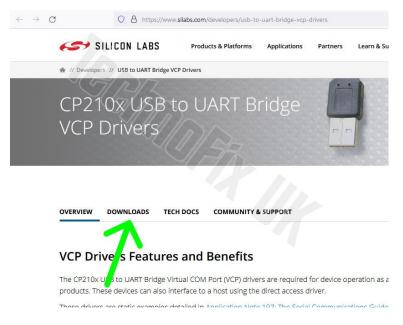
This document contains USB cable driver installation instructions for CP2102 chipset cables only. For other chipsets e.g. FTDI and for instructions for use, please refer to <u>https://technofix.uk/help</u>

These instructions have been written using Windows 11 as an example. Other versions of Windows may vary slightly, but the basic procedure will be similar. Driver installation is not usually needed for Linux. Please refer to the last page of this document.

Please download and extract the driver before connecting cable!

Start by downloading the latest driver from the SiLabs website. Go to:

https://www.silabs.com/developers/usb-to-uart-bridge-vcp-drivers

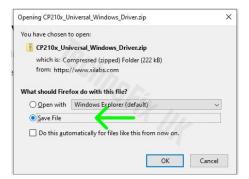


and click on the Downloads tab:

Now click on the CP210x Universal Windows Driver file link:



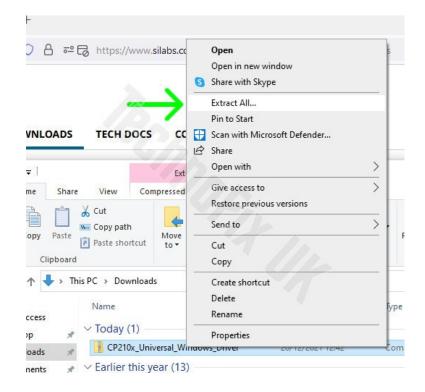
Select Save File and click OK.



The drivers are now in a zip file on your PC, usually in your *Downloads* folder:

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access	Cut aste Paste shortcut	Move Copy to * to * Orga	Delete Rename	New iter New folder New	ess • Properties	Gpen → Edit History	Select all Select none Invert select Select	
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Pictures # 👹 dotnet-sdk-5.0.401-win-x86 cnc			/10/2021 13:38 /10/2021 13:38	Application Compressed (zip		819 KB 498 KB		

Right-click on this file and then select 'Extract All':



Tick the box marked *Show extracted files when complete* and click *Extract:*

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When extraction is complete, a window will open showing the extracted driver files. It should look similar to this:

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Clipboard	Organise	New	Open	Select	
$\leftarrow \rightarrow \cdot \uparrow \square$ > Thi	s PC > Downloads > CP210x_Universal_Window	vs_Driver		5 v	
Quick access	Name	Date modified	Type Size		
Desktop *	arm	20/12/2021 12:44	File folder		
	arm64	20/12/2021 12:44	File folder		
🖊 Downloads 🛛 🖈	x64	20/12/2021 12:44	File folder		
🗄 Documents 🛛 🖈	x86	20/12/2021 12:44	File folder		
📰 Pictures 🛛 🖈	CP210x_Universal_Windows_Driver_Relea	20/12/2021 12:44	Text Document	26 KB	
cnc	silabser	20/12/2021 12:44	Security Catalogue	13 KB	
cp2102-driver-intru	silabser	20/12/2021 12:44	Setup Information	11 KB	
				9 KB	

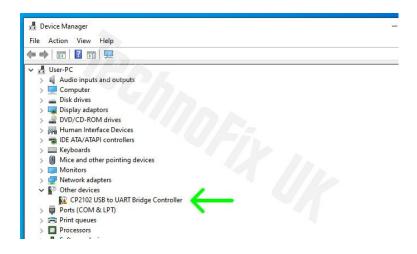
You can now plug the cable into a USB port on your PC. You should see a message like this one:



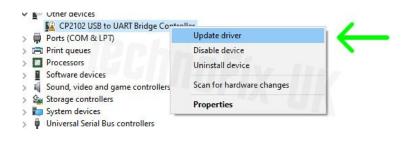
You need to make sure Windows is using the up-to-date driver you have downloaded and extracted. Type *Device Manager* into the Windows search bar and click *Open*:

0	All Apps Documents Web More -	···· 录
Recycle	Best match	
0	Control panel	S
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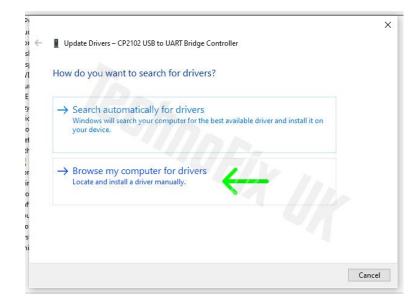
Look for the CP2102 device. You may need to expand the *Ports (COM & LPT)* section by clicking on the > on its left:



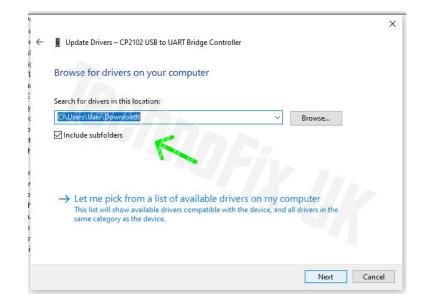
Right-click on the CP2102 device and select Update driver:



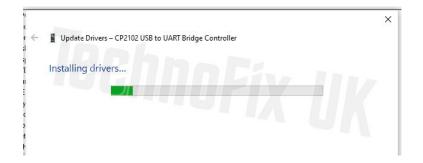
Then select Browse my computer for drivers:



Now select the location of the driver you extracted earlier (usually *Downloads*) and tick the box *Include subfolders*. Then click *Next*:



Windows will install the driver:



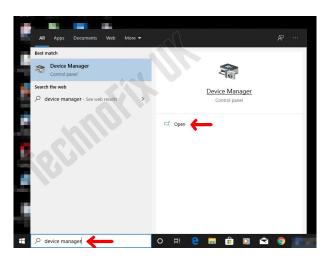
Success!



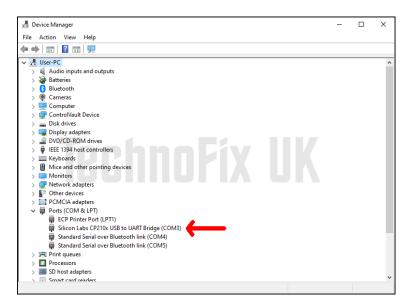
Locating the COM port

Some software can auto-detect your cable, but if not you may need to find out which COM port Windows has assigned to it. You will need to look in *Device Manager*.

In the search bar to the right of the Windows *Start* button, type *Device Manager*, then click *Open*:



Expand the *Ports (COM & LPT)* section by clicking on the > on its left:



Look for *Silicon Labs CP210x USB to UART Bridge*. In the example above, the cable has been assigned *COM3*. If you plug the cable into a different USB port on your PC, Windows may assign a different COM port number and you will need to look in *Device Manager* again.

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<u>Linux</u>

Most modern Linux systems will already have the CP2102 kernel module available. Simply plug the cable into USB port on your PC. The first USB serial port will normally be assigned /dev/ttyUSB0, the second /dev/ttyUSB1 and so on.

If you are having problems or are not sure which device name has been assigned to your cable, open a terminal and type

tail -f /var/log/syslog

then plug the cable in. In this example, the cable has been assigned /dev/ttyUSB0.

```
May 24 10:17:24 ian-cute kernel: [ 6407.248086] usb 5-1: reset full speed USB device number 2 using uhci_hcd
May 24 10:17:24 ian-cute kernel: [ 6407.400373] usb 5-1: cp210x converter now attached to ttyUSB0
May 24 10:17:24 ian-cute kernel: [ 6407.400483] usbcore: registered new interface driver cp210x
May 24 10:17:24 ian-cute kernel: [ 6407.400491] cp210x: v0.09:Silicon Labs CP210x RS232 serial adaptor driver
```

Mac, WinCE and other operating systems

Drivers are available for Mac and other operating systems. We have no facilities for installing these drivers, so apologise for the lack of instructions. Please visit the chipset manufacturer's website for further guidance. If you use your cable with another OS and would like to tell us about your experience and even contribute some instructions to help other users, we would be very pleased to hear from you.