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### Preface

Most computers have built-in or can install this driver automatically when you first connect the control board. If your computer cannot recognize the control board, follow this document to install the driver.

# Installing CH340 Driver on Windows

### Check the Installation

- 1. Connect your computer and control board with a USB cable.
- 2. Go to desktop of your computer, select "This PC" and right-click to select "Manage".

	Open	
2	Pin to Quick access	
5.0	Manage	
	Pin to Start	
-E	Map network drive	
ates	Disconnect network drive	
ine	Create shortcut	
	Delete	
h	Properties	

3. Click "Device Manager". If your computer has installed CH340, you can see "USB-SERIAL CH340 (COMx)". Then there is no need to install it again.



### Installing Driver

#### Method 1

1. If you have not yet installed CH340 driver, you will see the following.



2. Click "USB Serial" and right-click to select "Update driver".



3. Click "Search automatically for updated driver software".



4. Wait for CH340 to finish installation.

		$\times$
←	Update Drivers - USB-SERIAL CH340 (COM5)	
	Searching online for drivers	

5. When you see the following interface, it indicates that CH340 driver has been installed to your computer. You can close the window.



6. When control board is connected to computer, you can see the following.



### Method 2

1. First, download CH340 driver, click <u>http://www.wch-ic.com/search?q=CH340&t=downloads</u> to download the appropriate one based on your operating system.

All (14)				
Downloads (7)	keyword CH340			
Products (4)	Downloads( 7 )			
Application (2)				boolgu
Video (1)	file category	file content	version	time
	Driver&Tools	Mindows		
News (0)	CH341SER.EXE	rial port Windows driver, supports 32/64-bit Windows 10/8.1/8/7/VISTA/XP, Server 2016/2012/2008/2003, 2000/ME/98	3.5	2019- 03-18
	CH341SER.ZIP	CH340/CH341 USB to serial port Windows driver, includes DLL dynamic library and non-standard baud rate settings and other instructions. Supports 32/64-bit Windows 10/8.1/8/7/VISTA/XP, Server 2016/2012/2008/2003, 2000/ME/98	3.5	2019- 03-05
	CH341SER_ANDROI	CH340/CH341 USB to serial port Android free drive application library, for Android OS 3.1 and above version which supports USB Host mode already, no need to load Android kernel driver, no root privileges. Contains apk, lib library file (Lyos Driver), App Demo Example (USB to UART Den	1.6	2019- 04-19
	CH341SER_LINUX	cns o serial port LINUX driver	1.5	2018- 03-18
	CH341SER_MAC.ZI	MAC serial port MAC OS driver	1.5	2018- 07-05
	Others			
	PRODUCT_GUIDE.P	Electronic selection of product selection manual, please refer to related product technical manual for more technical information.	1.4	2018- 12-29
	InstallNoteOn64	Instructions for the driver after 18 years of August cannot be installed under some 64-bit WIN7 (English)	1.0	2019- 01-10

You can also find the installation package in "Drivers" folder.

Linux 8/14/2020 5:24 PM File folder   MAC 8/14/2020 5:23 PM File folder	Name	Date modified	Туре	Size
MAC 8/14/2020 5:23 PM File folder	Linux	8/14/2020 5:24 PM	File folder	
	MAC	8/14/2020 5:23 PM	File folder	
Windows 8/14/2020 5:23 PM File folder	Windows	8/14/2020 5:23 PM	File folder	

#### 2. Open the folder "Windows".

📙   🕑 📙 🖛   Windows			-	
File Home Share	View			~ 🕐
← → × ↑ 📙 « Freenov	e Ultimate Starter Kit for ESP32 > CH340 > Win	dows 🗸 Ö	Search Windows	Q,
1 Onistanova	Name	Date modified	Туре	Size
Cuick access	🛃 CH341SER.EXE	8/14/2020 5:22 PM	Application	277 KB
💻 This PC				
i Network				
	٢			>
1 item				811

3. Double click "CH341SER.EXE".

🛃 DriverSetup(X64)	- 🗆 X
-Device Driver I Select INF	nstall / UnInstall CH341SER.INF ~
INSTALL UNINSTALL	WCH.CN  USB-SERIAL CH340  01/30/2019, 3.5.2019
HELP	

4. Click "INSTALL" and wait for the installation to complete.

뤍 DriverSetup(X64)	- 🗆 X
Device Driver	Install / UnInstall
Select INF	CH341SER.INF 🗸
INSTALL	WCH.CN  USB-SERIAL_CH340
UNINSTALL	ן טוזאטעטע, א.ג.צטוא
HELP	

5. Install successfully. Close all windows.

🛃 DriverSetup(λ	(64)		
Device Dr	iver Install /	UnInstall	
Select I	IF CH341SEF	.INF	~
DriverSetu	ip The drive is successfu	lly Pre-installed in ac	dvance!
			ОК

6. When control board is connected to computer, select "This PC", right-click to select "Manage" and click "Device Manager" in the newly pop-up dialog box, and you can see the following.



7. So far, CH340 driver has been installed successfully. Close all dialog boxes.

Please try to upload a sketch again. If the issue remains, please contact us via support@freenove.com

## Installing CH340 Driver on MAC

Please refer to Drivers\MAC\CH341SER\_MAC\ReadMe.pdf

Please try to upload a sketch again. If the issue remains, please contact us via support@freenove.com