

# Appendix-All

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2023/02/06



# Appendix-1: Metaware Install (Option) (For user in Taiwan)



# MetaWare Download

- 台灣學界人員可向TSRI申請MetaWare使用權限，申請流程可至TSRI網站，設計服務 > 軟體申請須知 進行查詢。

<https://www.tsri.org.tw/main.jsp>

- 請指導教授先完成申請TSRI會員，接著即可申請要使用之軟體，並且登錄欲要用該軟體之實驗室電腦IP。
- 指導教授為TSRI會員後，學生可點選登入會員，接著選擇註冊帳號，填寫完相關資訊，並等待相關程序處理完畢。



# MetaWare Download

- 進入TSRI 官網 <https://www.tsri.org.tw/main.jsp>
- 點選設計服務->軟體資訊/下載



# MetaWare Download

- 點選軟體申請，跳至會員登入頁面，並完成登入動作

軟體簡介

## 軟體簡介

名稱: MetaWare Development Toolkit

簡介: 軟體功能:  
為因應國內學術界對ARC嵌入式軟體開發工具的需求，TSRI引進新思(Synopsys)公司的DesignWare MetaWare Toolkit軟體開發工具，開放給學術界免費申請使用。



### 功能權限錯誤

您需要先 **登入** 才能使用此功能。

其他問題可以先參考 [申請須知](#)。

[聯絡我們](#)

新竹辦公室: 30078 新竹市科學園區展業一路26號  
台南-成大奇美樓: 70101台南市大學路1號成功大學自強校區奇美樓7樓  
最佳瀏覽解析度為1366\*768以上

軟體資訊

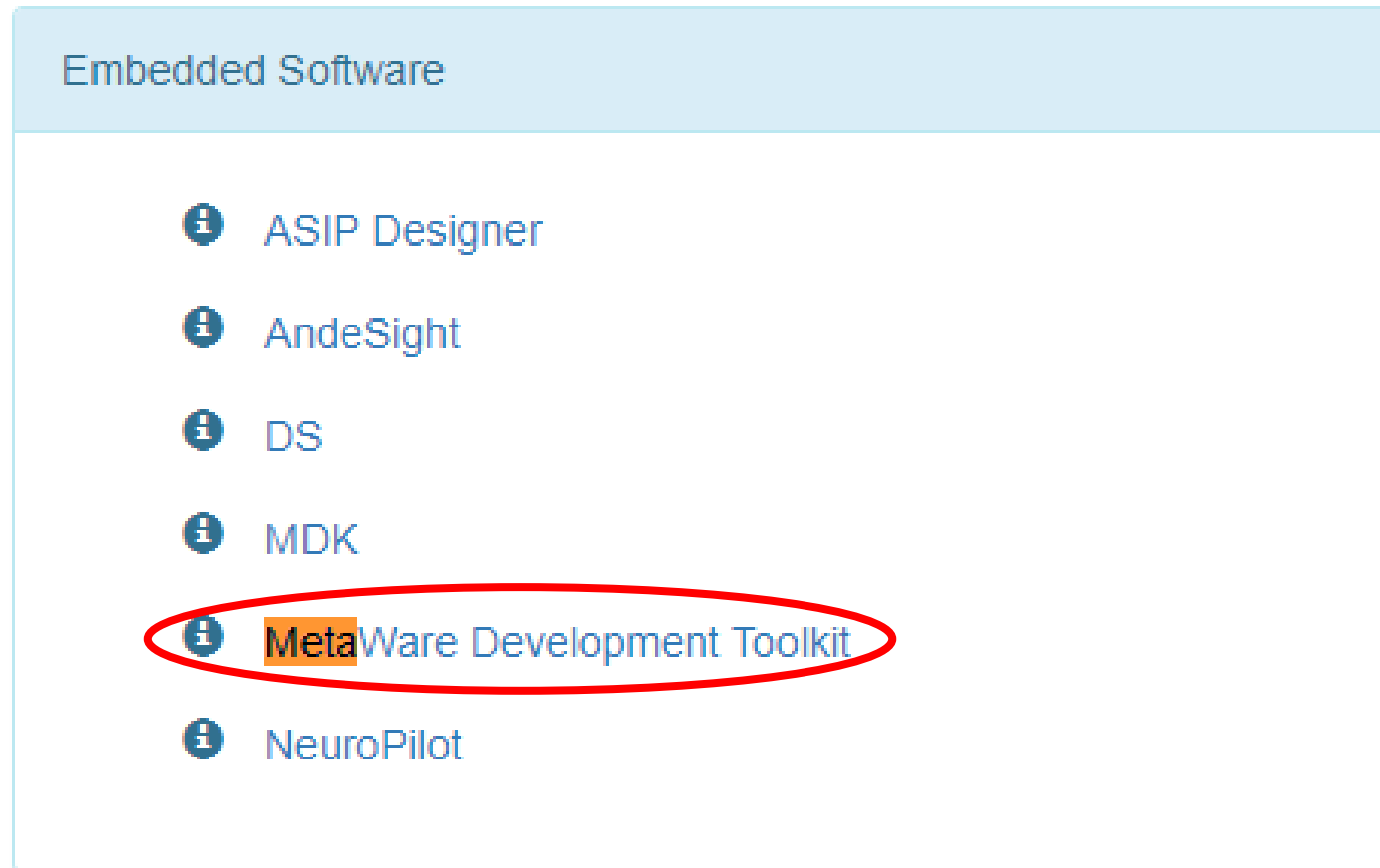
軟體申請

IP登錄

聯絡窗口

# MetaWare Download

- Ctrl+f 搜尋Meta
- 點選MetaWare Development Toolkit



# MetaWare Download

- 點選軟體取得

軟體簡介

軟體取得

實作範例

## 軟體簡介

名稱： MetaWare Development Toolkit

簡介：

軟體功能：

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DesignWare MetaWare Toolkit可以針對ARC HS及ARC EM 平台進行相關的軟體開發、分析及除錯。

軟體內容：

1. 單一工具鏈支援所有ARC處理器(ARC 600, ARC 700, ARC EM and ARC HS)
2. 支援進階C++語法,包含Standard Template Library for ARC
3. OS Aware Debugger 可針對 MQX RTOS for ARC
4. 支援多核心除錯
5. Eclipse-based IDE

系統需求：

Windows 7/10, 64-bit

RHEL 6.6/6.7/6.8/7.1/7.3, 64-bit

1 GB of RAM



# MetaWare Download

- 下載mwev

[軟體簡介](#)   [軟體取得](#)   [實作範例](#)

## MetaWare Development Toolkit 軟體取得

2020.09

檔案名稱	檔案說明	檔案大小	下載連結
mwev_R-2020_09_win_install.exe	MetaWare Development Toolkit for Windows 64位元版安裝檔	3,382,128,416 bytes	<a href="#">下載</a>
synopsys_caffe_v2020_09.exe	Synopsys caffe 安裝檔 for Windows, install with mwev_R-2020_09_win_install.exe	2,317,838,362 bytes	<a href="#">下載</a>
MWDT_2020.09_linux_1of3.tgz	MetaWare Development Toolkit for Linux Disk 1/3	866,315,860 bytes	<a href="#">下載</a>
MWDT_2020.09_linux_2of3.tgz	MetaWare Development Toolkit for Linux Disk 2/3	1,419,168,522 bytes	<a href="#">下載</a>
MWDT_2020.09_linux_3of3.tgz	MetaWare Development Toolkit for Linux Disk 3/3	2,100,589,978 bytes	<a href="#">下載</a>
mwev_R-2020_09_build_info.txt	MetaWare Development Toolkit 軟體版本說明檔	359 bytes	<a href="#">下載</a>

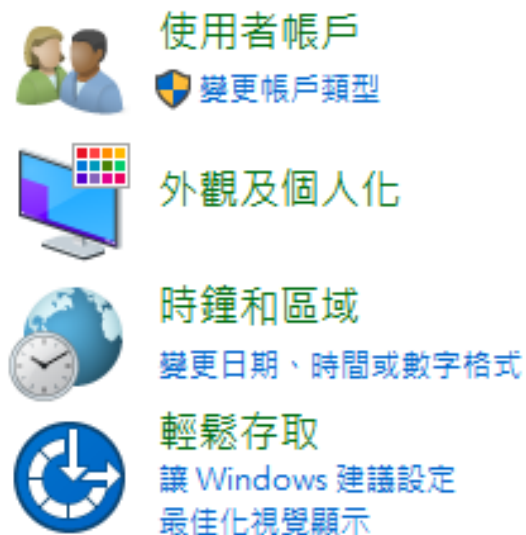


# License Setting

- 進入控制台->系統及安全性->系統->進階系統設定->->環境變數->系統變數新增

調整電腦設定

檢視:



# License Setting



# License Setting

系統

← → ▾ ▴ 控制台 > 系統及安全性 > 系統 ▾ ↻

控制台首頁

裝置管理員

遠端設定

系統保護

**進階系統設定**

### 檢視電腦的基本資訊

Windows 版本

Windows 10 專業版

© 2019 Microsoft Corporation. 著作權所有，並保留一切權利。



系統

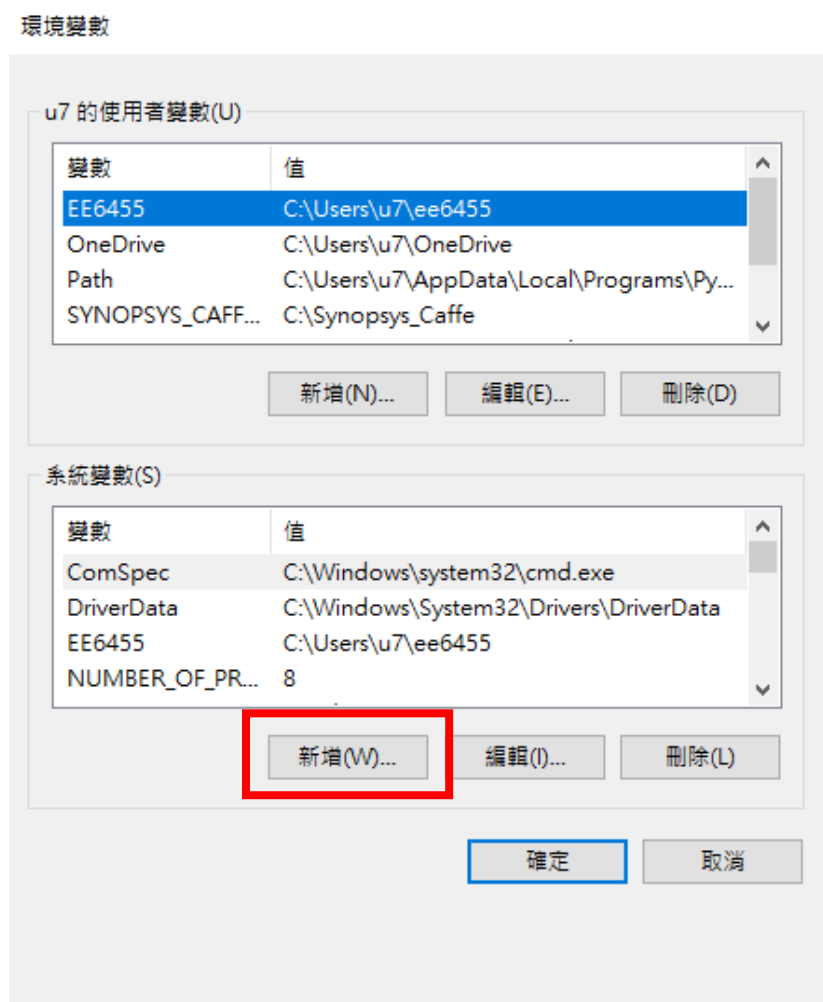
處理器:	Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz 3.60 GHz
已安裝記憶體 (RAM)	16.0 GB (15.9 GB 可用)
系統類型:	64 位元作業系統, x64 型處理器
手寫筆與觸控:	此顯示器不提供手寫筆或觸控式輸入功能。

電腦名稱、網域及工作群組設定

電腦名稱:	DESKTOP-398I3S8
完整電腦名稱:	DESKTOP-398I3S8
電腦描述:	
工作群組:	WORKGROUP

Windows 啟用

# License Setting



# License Setting

- 變數名稱:SNPSLMD\_LICENSE\_FILE
- 變數值:26585@lscic.cic.org.tw
- 輸入完成後按下確定

新增系統變數



變數名稱(N):

SNPSLMD\_LICENSE\_FILE

變數值(V):

26585@lscic.cic.org.tw

瀏覽目錄(D)...

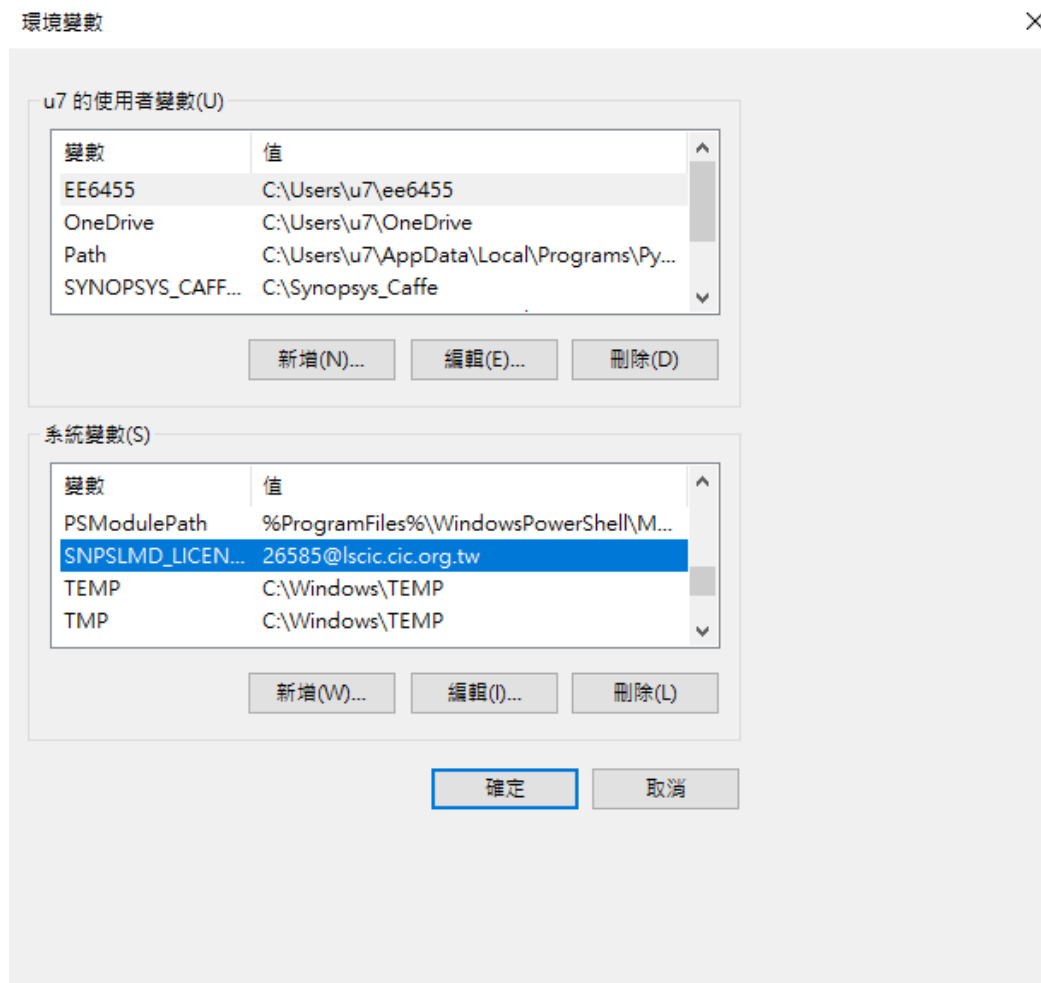
瀏覽檔案(F)...

確定

取消

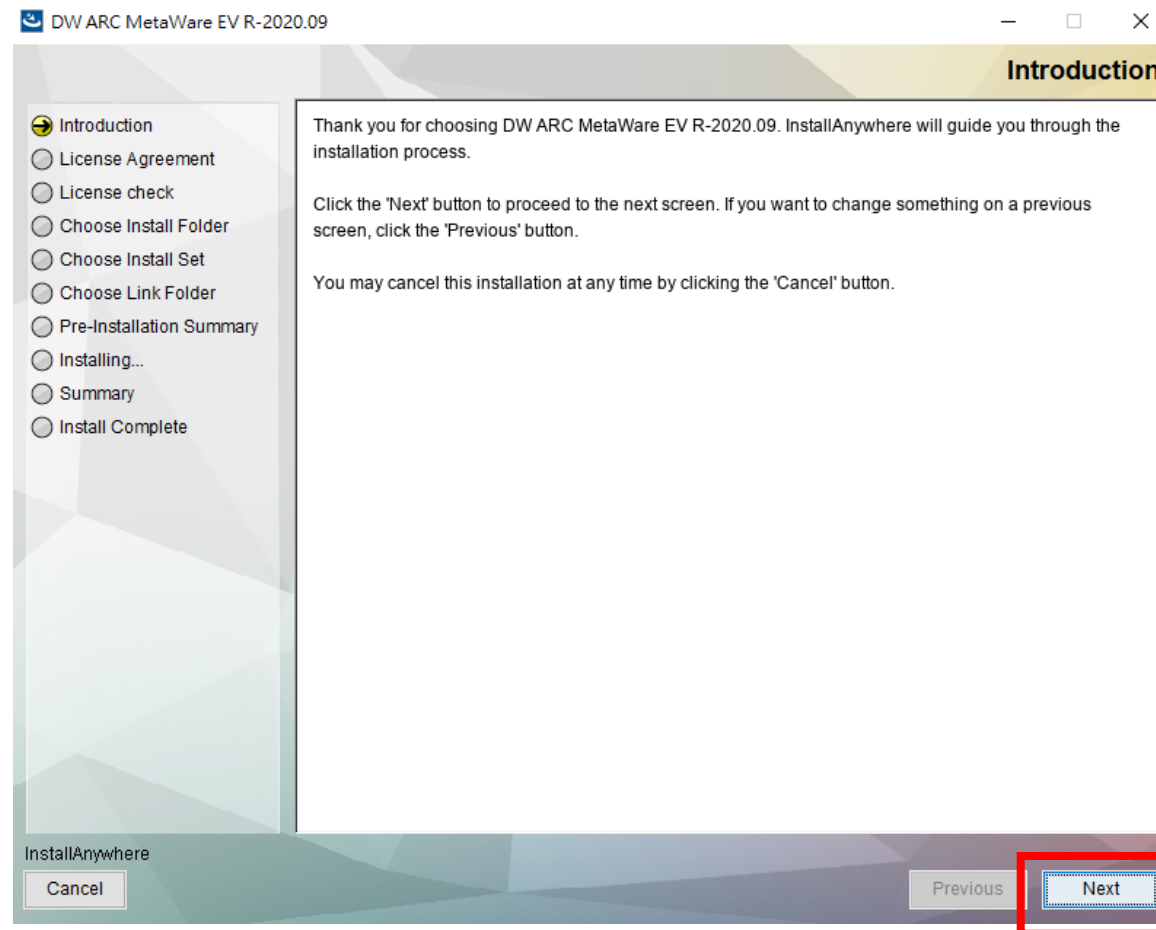
# License Setting

- 確認新增成功，成功後重新啟動電腦



# MetaWare Installation

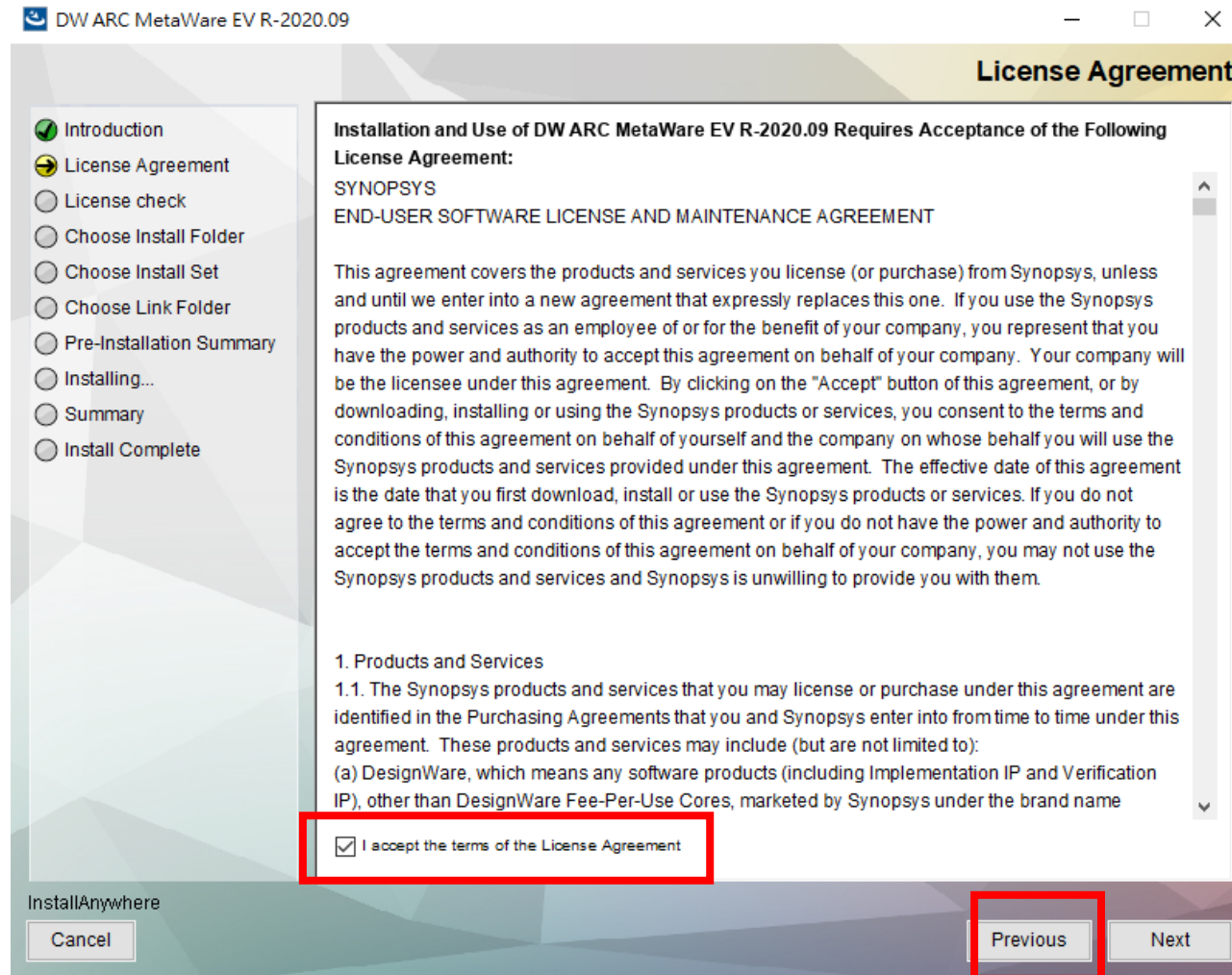
- 執行mwew\_R\_2020\_09\_win\_install
- 接下來步驟都點選Next





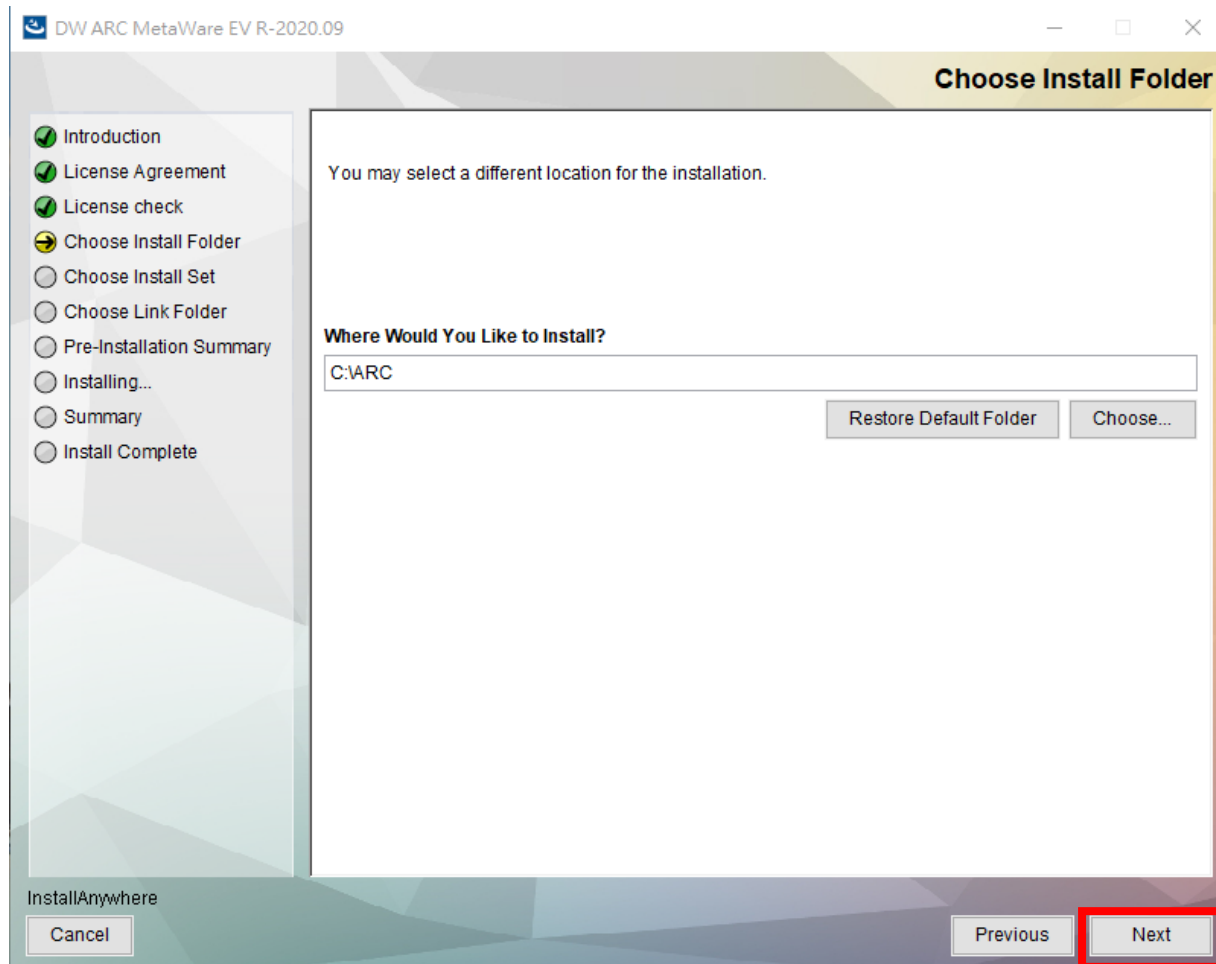
# MetaWare Installation

- 勾选 I accept ...



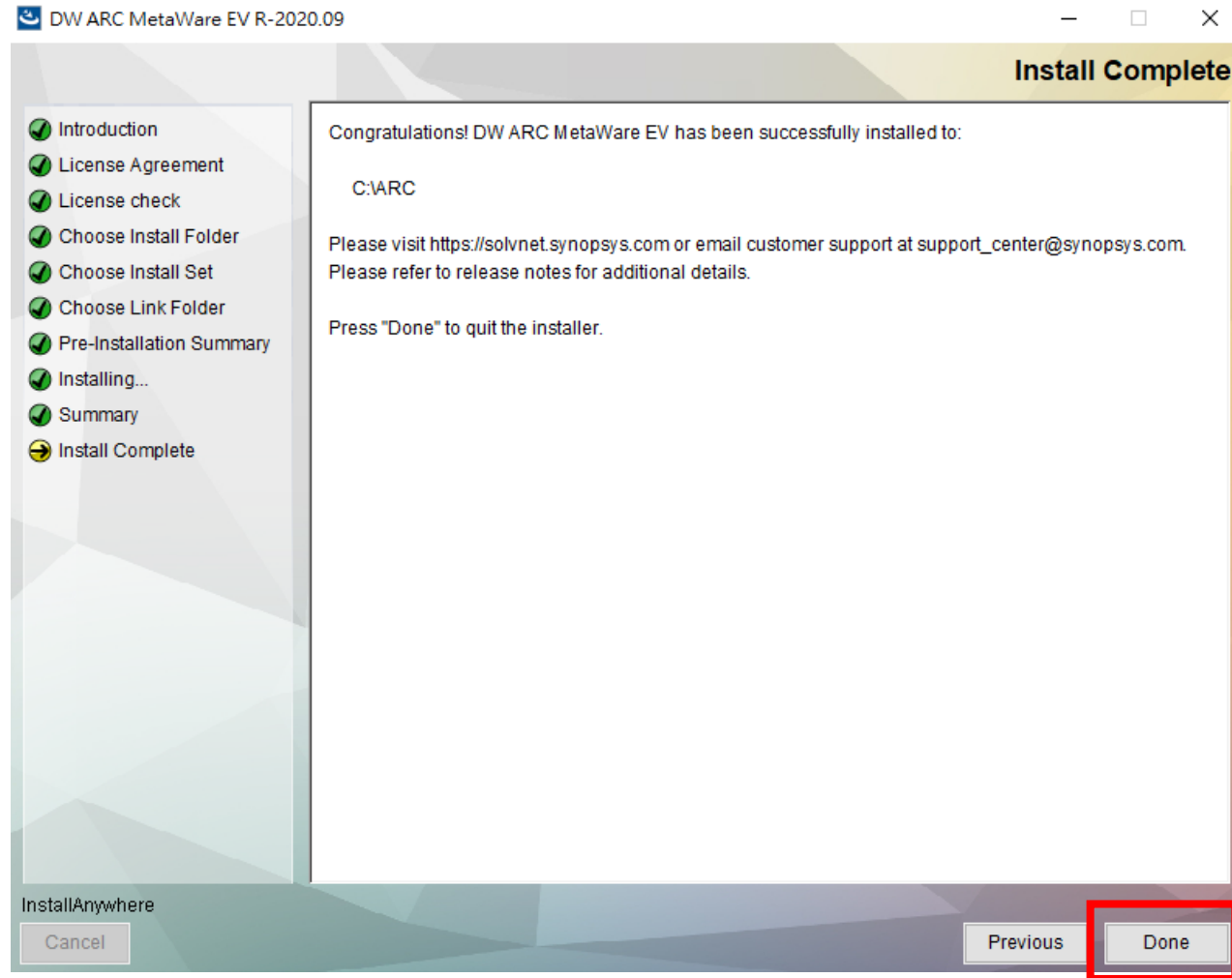
# MetaWare Installation

- 如果License check失敗，請回到第五頁確認新增環境變數成功



# MetaWare Installation

- 點選Done完成安裝



# Appendix-2: Troubleshooting - FTDI VCP Driver



# Troubleshooting – FTDI VCP Driver

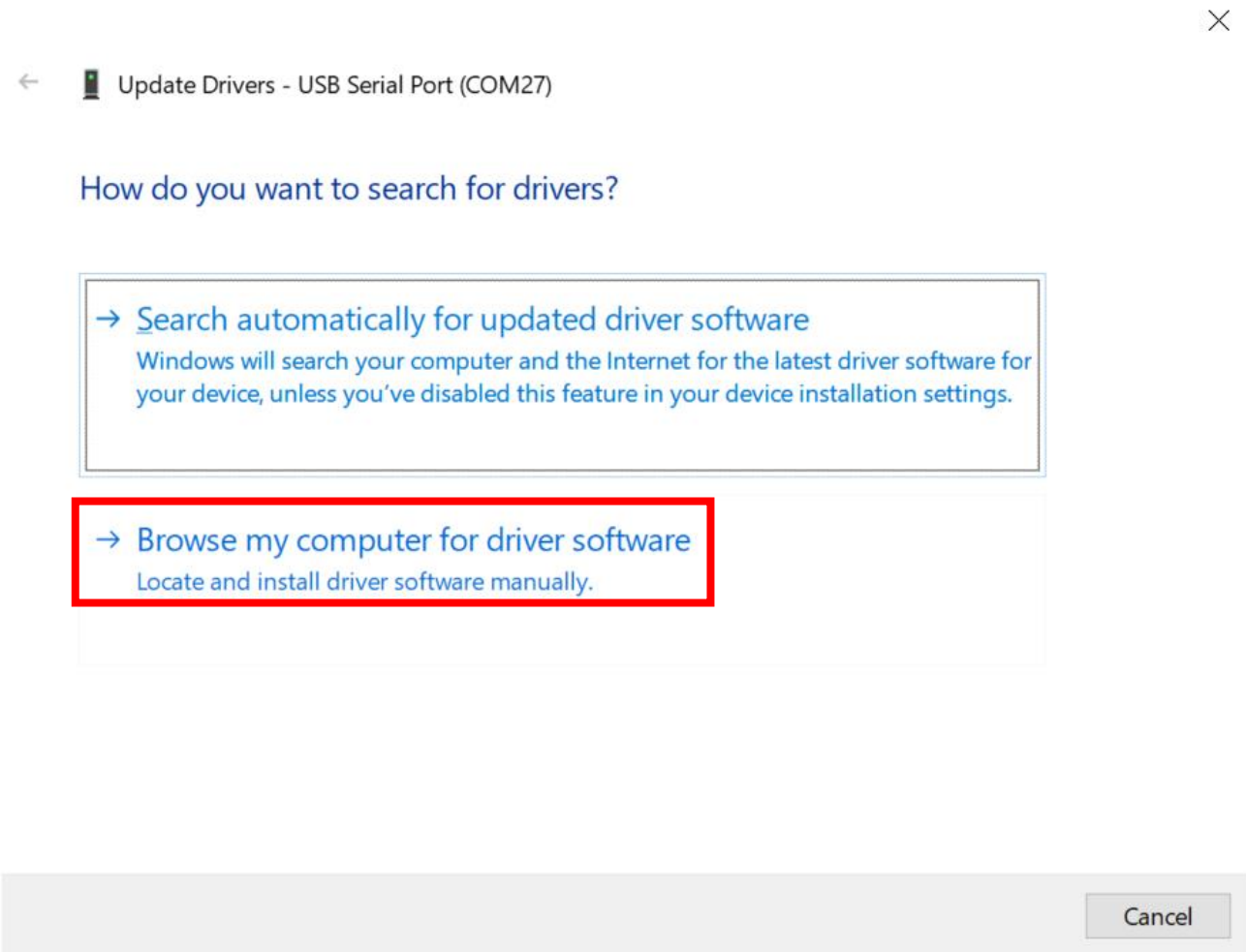
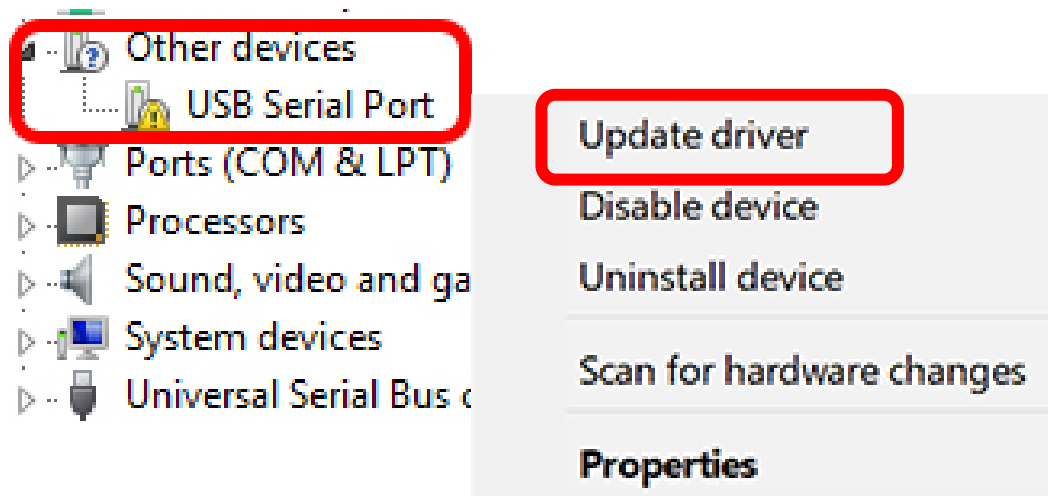
If the USB serial port is not shown in Ports (COM & LPT):

1. Download VCP driver: <https://ftdichip.com/drivers/vcp-drivers/>  
Select Windows/X64 version
2. Unzip the downloaded file (CDM v2.XX.XX WHQL Certified)


Operating System	Release Date	Processor Architecture				
		X86 (32-Bit)	X64 (64-Bit)	PPC	ARM	MIPSII
Windows*	2017-08-30	<a href="#">2.12.28</a>	<a href="#">2.12.28</a>	-	-	-
Linux	-	-	-	-	-	-

# Troubleshooting – FTDI VCP Driver

3. Click Device Manager > Other devices > USB Serial Port > Update driver
4. Choose “Browse my computer for driver software”



# Troubleshooting – FTDI VCP Driver

←  Update Drivers - USB Serial Port (COM27) ×

[Browse for drivers on your computer](#) 5. Choose the downloaded folder  
(CDM v2.XX.XX WHQL Certified)

Search for drivers in this location:

☒ Include subfolders

6. Select

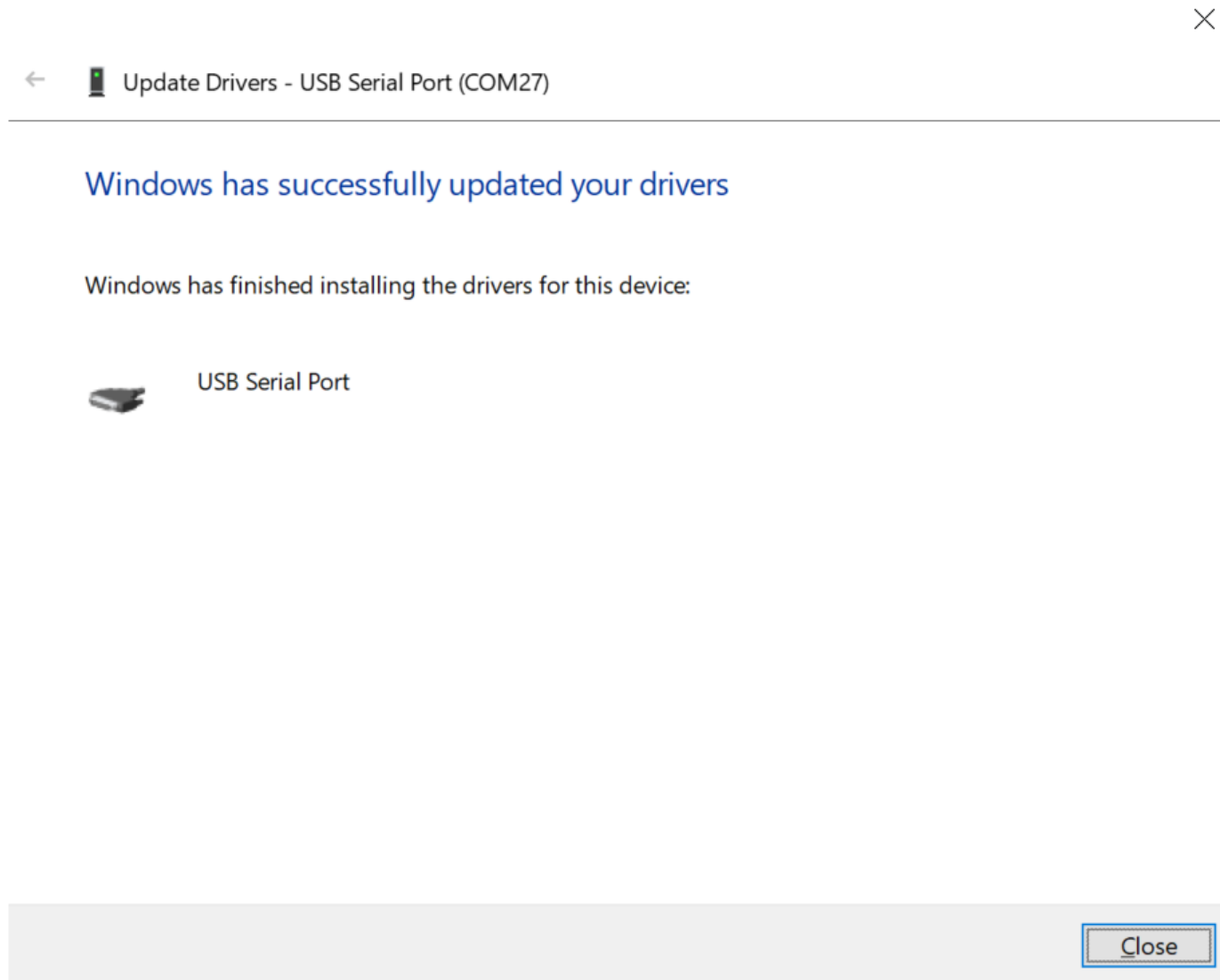
→ [Let me pick from a list of available drivers on my computer](#)  
This list will show available drivers compatible with the device, and all drivers in the same category as the device.

7.



# Troubleshooting – FTDI VCP Driver

## 8. Finish



# Appendix-3: Troubleshooting - CP2102 VCP Driver



# Troubleshooting – CP2102 VCP Driver

If the USB serial port is not shown in Ports (COM & LPT):

1. Download VCP driver:

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

Select CP210x VCP Windows version

2. Unzip the downloaded file (CP210x\_VCP\_Windows)

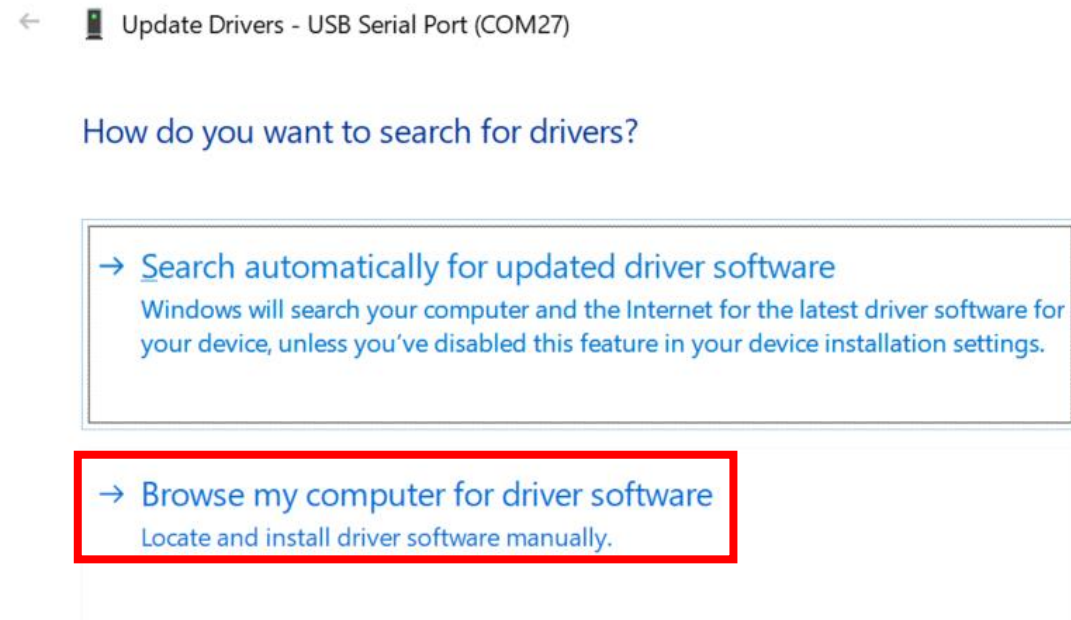
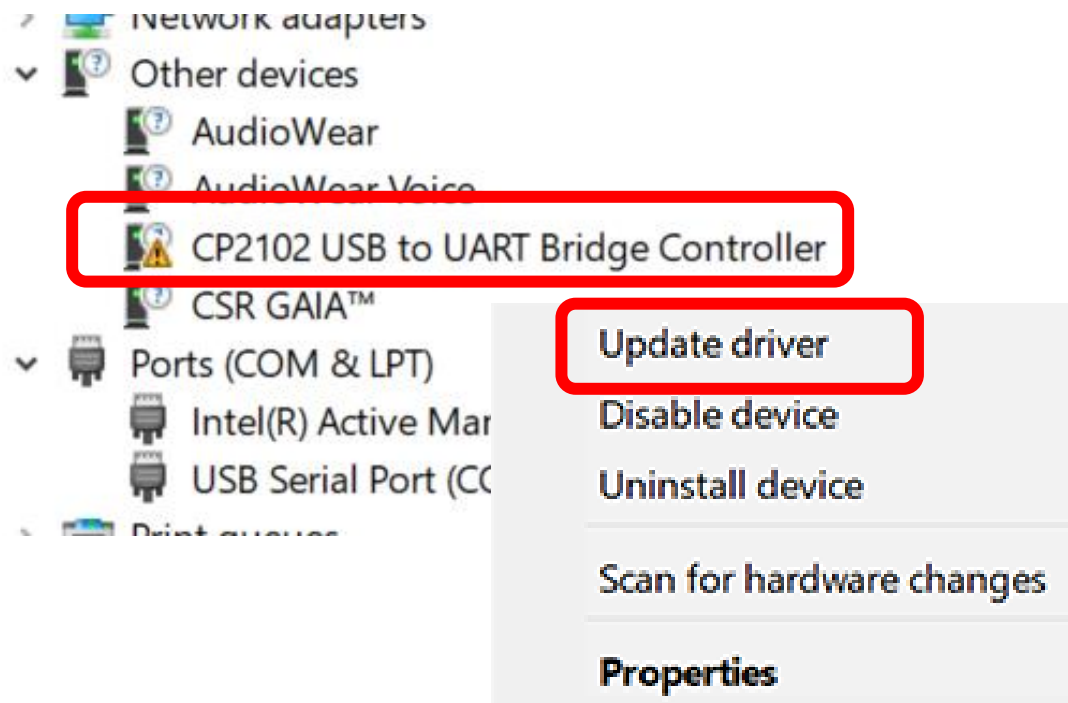
**Software** • 10

CP210x Universal Windows Driver	v11.1.0 3/22/2022
CP210x VCP Mac OSX Driver	v6.0.2 10/27/2021
CP210x Windows Drivers	v6.7.6 9/4/2020
CP210x Windows Drivers with Serial Enumerator	v6.7.6 9/4/2020
CP210x_5x_AppNote_Archive	9/4/2020

[Show 5 more Software](#)

# Troubleshooting – CP2102 VCP Driver

3. Click Other devices > USB Serial Port > Update driver
4. Choose “Browse my computer for driver software”



# Troubleshooting – CP2102 VCP Driver



← Update Drivers - CP2102 USB to UART Bridge Controller

[Browse for drivers on your computer](#)

5. Choose the downloaded folder  
(CP210x\_VCP\_Windows)

Search for drivers in this location:

C:\Users\williet\Downloads\CP210x\_VCP\_Windows

☒ Include subfolders

6. Select

→ [Let me pick from a list of available drivers on my computer](#)

This list will show available drivers compatible with the device, and all drivers in the same category as the device.

7.

# Troubleshooting – CP2102 VCP Driver



## 8. Finish



Update Drivers - Silicon Labs CP210x USB to UART Bridge (COM28)

The best drivers for your device are already installed

Windows has determined that the best driver for this device is already installed. There may be better drivers on Windows Update or on the device manufacturer's website.



Silicon Labs CP210x USB to UART Bridge

→ [Search for updated drivers on Windows Update](#)

Close

# Appendix-4: Troubleshooting – HMX\_FT4222H\_GUI.exe DLL File Missing





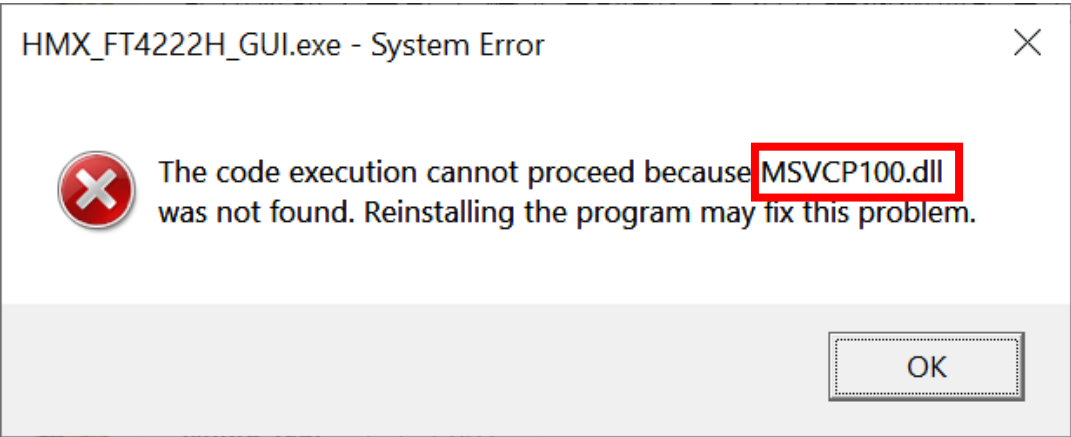
# Troubleshooting – DLL File Missing

If the DLL file missing is ftd2xx.dll

- Download FTDI D2XX Drivers install it.  
<https://ftdichip.com/drivers/d2xx-drivers/>

Currently Supported D2XX Drivers:

**Subscribe to Our Driver Updates**



		Processor Architecture					
Operating System	Release Date	X86 (32-Bit)	X64 (64-Bit)	ARM	MIPS	SH4	Comments
Windows (Desktop)*	2021-07-15	<a href="#">2.12.36.4</a>	<a href="#">2.12.36.4</a>	<a href="#">2.12.36.4A</a> *****	–	–	WHQL Certified. Includes VCP and D2XX. Available as a <a href="#">setup executable</a> . Please see the <a href="#">Release Notes</a> and <a href="#">Installation Guides</a> .
Windows (Universal)****	2021-11-12	<a href="#">2.12.36.4U</a>	<a href="#">2.12.36.4U</a>	–	–	–	WHQL Certified. Includes VCP and D2XX.

# Troubleshooting – DLL File Missing

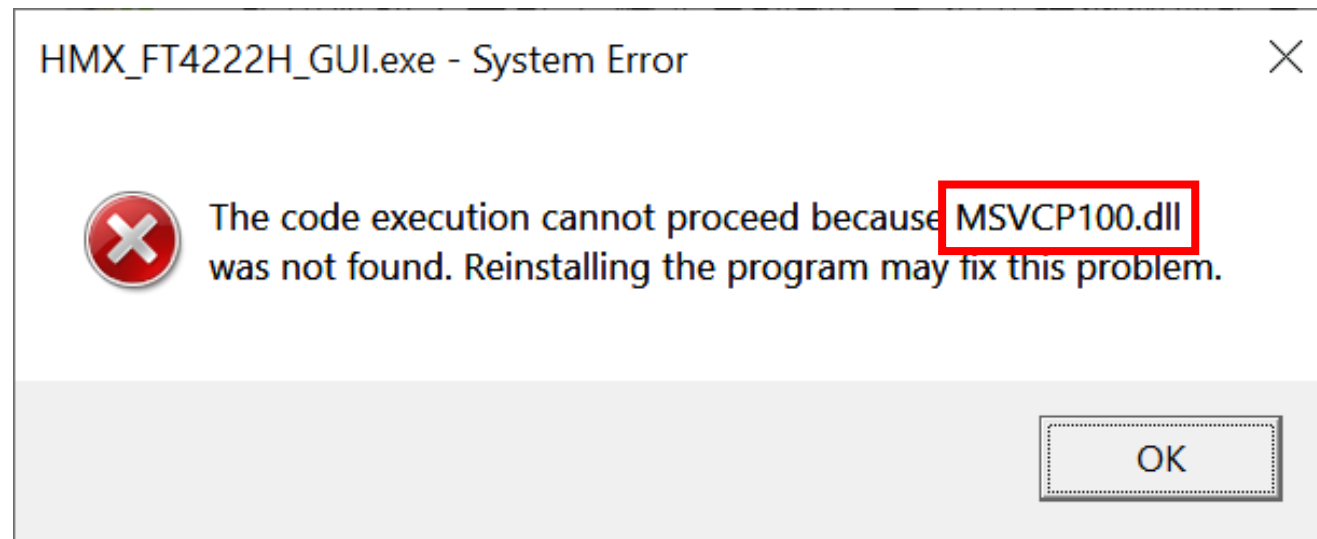
If the DLL file missing is MSVCP100.dll or MSCR100.dll

- Download Microsoft Visual C++ 2010 and install it.  
<https://www.microsoft.com/en-us/download/details.aspx?id=26999>

If the DLL file missing is MFC140.dll

- Download Microsoft Visual C++ 2015 and install it.  
<https://www.microsoft.com/en-us/download/details.aspx?id=48145>

If missing other DLL files, please search on the internet



# Appendix-5: Troubleshooting – EMNIST Dataset Install



# Troubleshooting – EMNIST Dataset Install

If you can't download EMNIST dataset and know someone has already downloaded, you can copy their dataset any copy to your PC manually.

1. Go to “Jupyter notebook root path” in the PC which has this dataset.  
Default: “C:\Users\{username}\”
2. Copy folder “tensorflow\_datasets” to another PC’s “Jupyter notebook root path”.

