

Nordic ToolKits Introduction

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AVNET[®]
Reach Further[™]



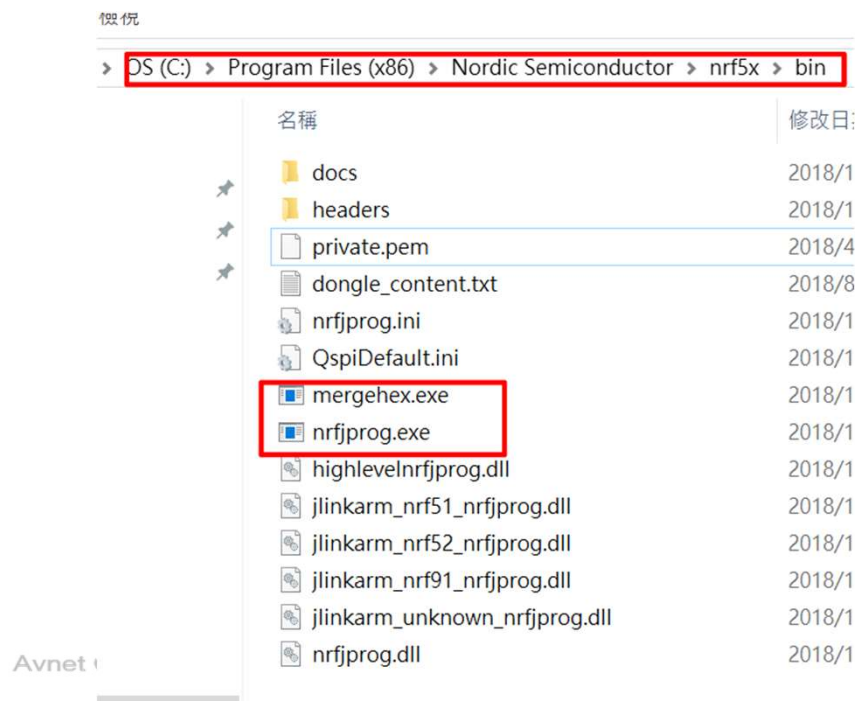
環境安裝

環境安裝

請先安裝nordic command tool

- 下載網址：
- <https://www.nordicsemi.com/Software-and-Tools/Development-Tools/nRF5-Command-Line-Tools/Download#infotabs>

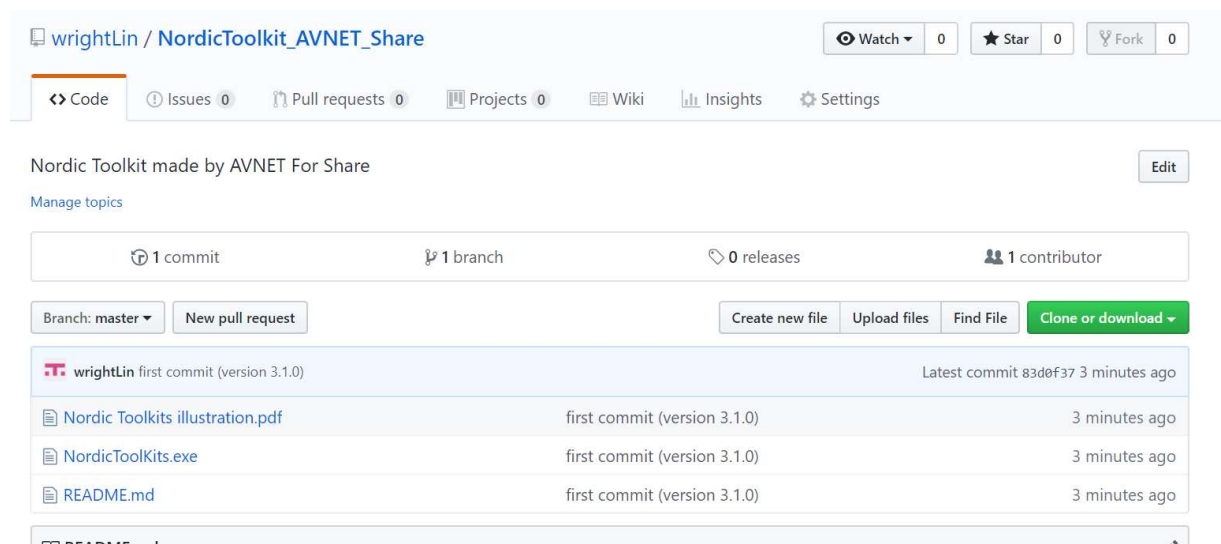
可於本機端預設安裝位置看到以下內容：



環境安裝

請下載 Nordic toolkits --AVNET :

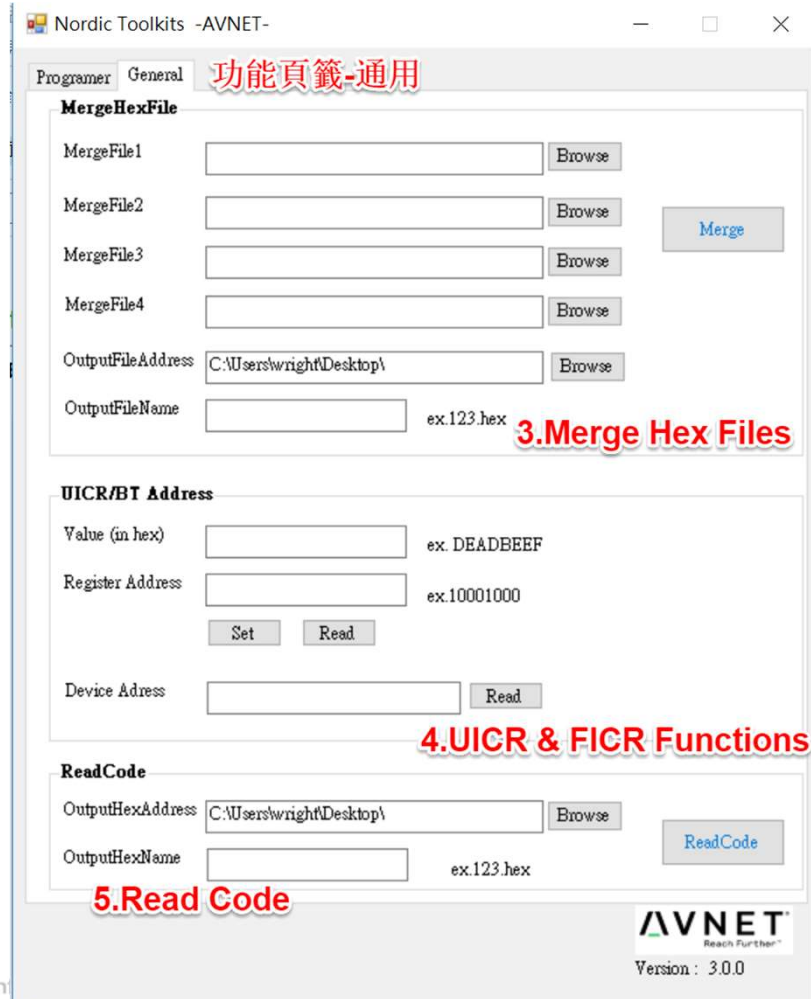
- Exe and illustration file : https://github.com/wrightLin/NordicToolkit_AVNET_Share



- 請將 ToolKit.exe 與 nrfjprog.exe 放置同一層資料夾當中，即可使用。

介面說明

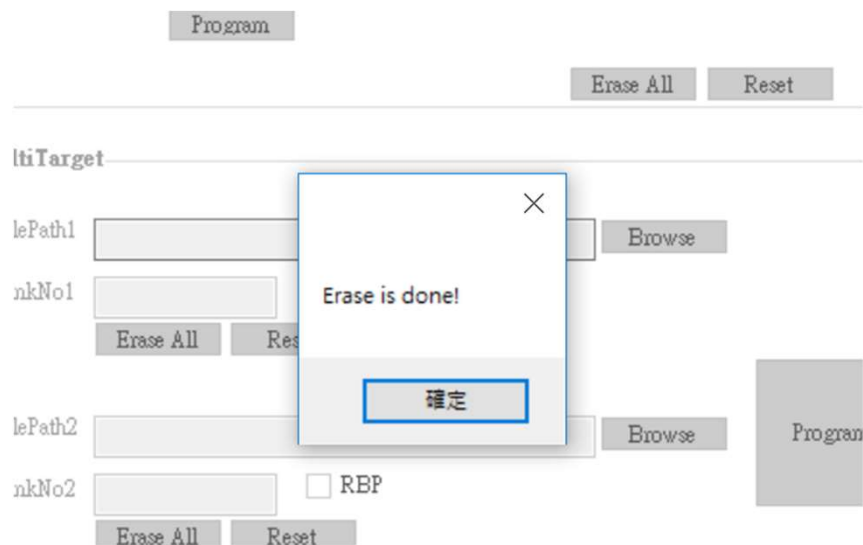
介面說明



操作説明

操作說明

- 執行任何操作後，工具頁面會鎖死避免誤擊。並於動作完成後跳出執行結果。



操作說明

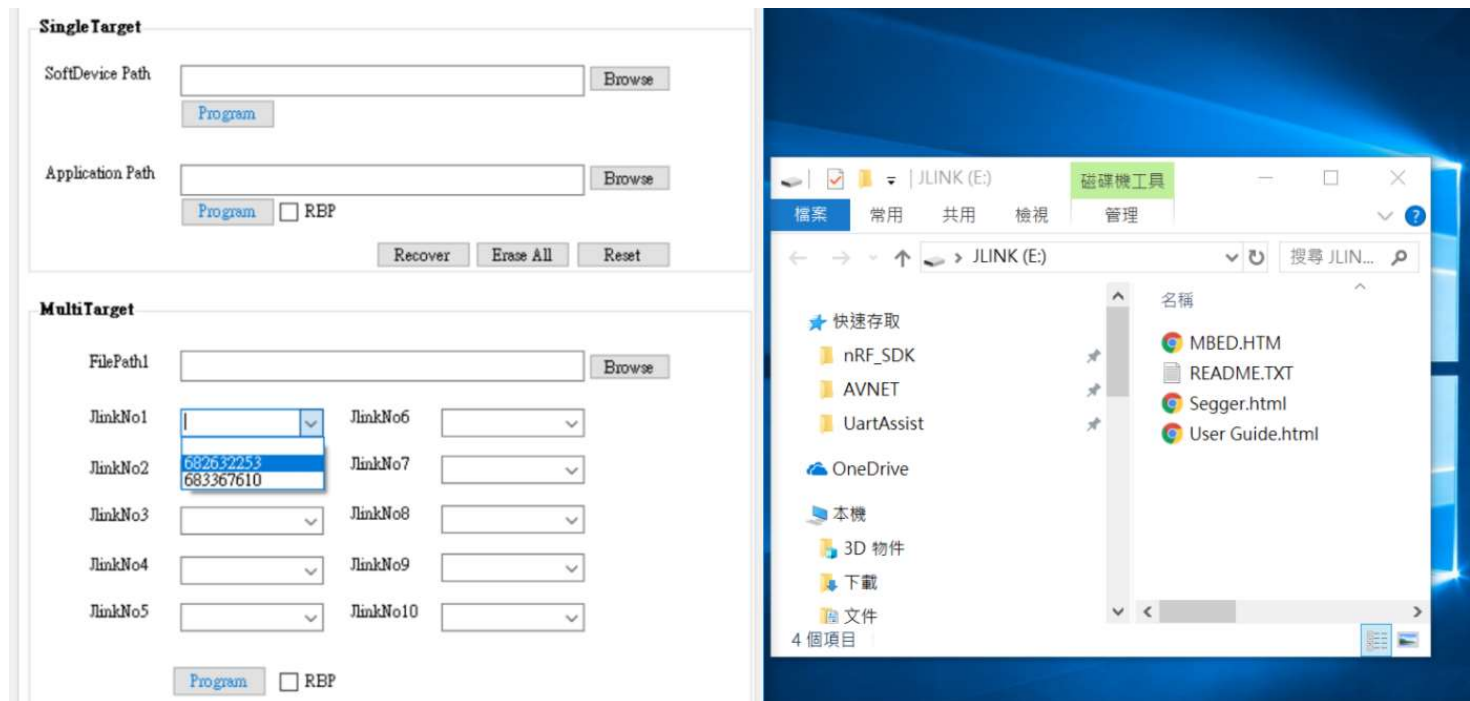
- 執行指令前，toolkit會自動去判斷連結 IC 為 52 or 51 系列，並修改對應指令。
- toolkits 會自動讀取目前所接 JLink IC Serial Number，並載入至 MultiTarget Dropdown List選單當中。

MultiTarget

FilePath1	<input type="text" value="C:\Users\wright\Desktop\Hexf"/>	
JlinkNo1	<input type="text" value="683974512"/> ▼	Jlink
JlinkNo2	<input type="text" value="683367610"/> ▼	Jlink
JlinkNo3	<input type="text" value="683425984"/> ▼	Jlink
JlinkNo4	<input type="text" value="683257730"/> ▼	Jlink
JlinkNo9	<div><div>683244514 ▼</div><div>683974512</div><div>683367610</div><div>683425984</div><div>683257730</div><div>683244514</div></div>	Jlink

操作說明

- 當有JlinkIC與電腦連結/移除時，toolkits 將會重新偵測連結IC序號。



操作說明

- 檔案輸出欄位，路徑會預設帶出**toolkit**應用程式所在資料夾

MergeHexFile

MergeFile1	<input type="text"/>	<input type="button" value="Browse"/>
MergeFile2	<input type="text"/>	<input type="button" value="Browse"/>
MergeFile3	<input type="text"/>	<input type="button" value="Browse"/>
MergeFile4	<input type="text"/>	<input type="button" value="Browse"/>
OutputFileAddress	<input type="text" value="C:\Users\wright\Desktop\"/> 	<input type="button" value="Browse"/>

ReadCode

OutputHexAddress	<input type="text" value="C:\Users\wright\Desktop\"/> 	<input type="button" value="Browse"/>
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功能説明

功能說明

- 單目標燒錄

	--rbp <level>	Enables the readback protection mechanism. Valid argument options are CR0 and ALL. Limitations: For nRF52 devices, the CR0 argument option is invalid. Important: After an --rbp operation is performed, the available operations are reduced. For nRF51 devices, and if argument option ALL is used, --pinreset will not work on certain older devices. For nRF52 devices, only --pinreset or --recover operations are available after --rbp.
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The screenshot shows the 'Single Target' programming interface. It has two sections: 'SoftDevice Path' and 'Application Path', both pointing to 'C:\Users\wright\Desktop'. Each section has a 'Program' button. A red arrow points to the 'Program' button in the 'Application Path' section, with the text '4. 點擊program燒錄app' (Click program to burn app). Another red arrow points to the 'Program' button in the 'SoftDevice Path' section, with the text '3. 點擊program燒錄SD' (Click program to burn SD). A blue box highlights the text '如有Read back protection 請勾選' (If there is Read back protection, please check). Below this, the 'RBP' checkbox is checked. An error message box is displayed at the bottom, stating: 'Process failed! Error : ERROR: The operation attempted is unavailable due to readback protection in ERROR: your device. Please use --recover to unlock the device.' A '確定' (Confirm) button is at the bottom right of the error box.

Single Target

SoftDevice Path C:\Users\wright\Desktop

Program

3. 點擊program燒錄SD

如有Read back protection 請勾選

Application Path C:\Users\wright\Desktop

Program

4. 點擊program燒錄app

☒ RBP

Process failed!
Error : ERROR: The operation attempted is unavailable due to readback protection in
ERROR: your device. Please use --recover to unlock the device.

確定

功能說明

- 多目標燒錄

MultiTarget

選擇欲燒錄 Hex file

FilePath1: C:\Users\wright\Desktop\HexFile_temp\ble_app_ancs_c_pca Browse

JlinkNo1: 683974512 JlinkNo6:
JlinkNo2: 683974512 JlinkNo7:
JlinkNo3: 683367610 JlinkNo8:
JlinkNo4: 683425984 JlinkNo9:
JlinkNo5: JlinkNo10:

選擇欲燒錄 Jlink IC 序號

Program ☐ RBP 如有RBP需求請勾選

點擊program, 對所有選擇IC進行同步燒錄

利用 Recover/ EraseAll清除IC資訊
利用 Reset 重啟 IC

Recover Erase All Reset

功能說明

- Merge Hexfiles

MergeHexFile

點擊**browse** 選擇欲 merge之hexfile

MergeFile1	C:\Users\wright\Desktop\HexFile_temp\DFU\bl	Browse
MergeFile2	C:\Users\wright\Desktop\HexFile_temp\DFU\bc	Browse
MergeFile3	C:\Users\wright\Desktop\HexFile_temp\DFU\vr	Browse
MergeFile4	C:\Users\wright\Desktop\HexFile_temp\DFU\sl	Browse

點擊 **Merge** 進行合併

OutputFileAddress C:\Users\wright\Desktop\ Browse

OutputFileName 123.hex ex.123.hex

選擇輸出目錄，檔案名稱

功能說明

- UICR & FICR

UICR/BT Address

Value (in hex) ex. DEADBEEF

Register Address 目標UICR位置 ex.10001000

讀取/設定 UICR 值

BT Address (FICR)

讀取IC出廠時即存於FICR中的 BT Address

按下讀取，此欄位將顯示UICR值
按下設定，將此欄位值寫入UICR

 **MDBT50Q MESH DONGLE** ⋮

NOT BONDED -47 dBm ↔ 199 ms

Device type: LE only

功能說明

- ReadCode

ReadCode

OutputHexAddress	<input type="text" value="C:\Users\wright\Desktop"/>	<input type="button" value="Browse"/>	執行readcode
OutputHexName	<input type="text" value="Readout.hex"/>	選擇輸出hexfile 路徑以及檔名 ex.123.hex	<input type="button" value="ReadCode"/>

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