

# Nordic ToolKits Introduction

Wright Lin

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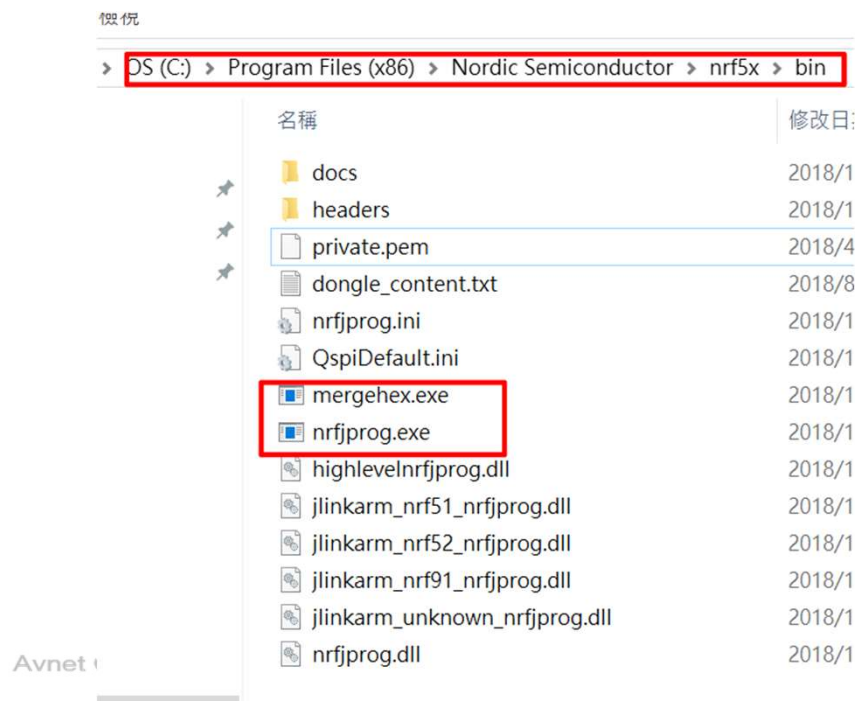
環境安裝

# 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>

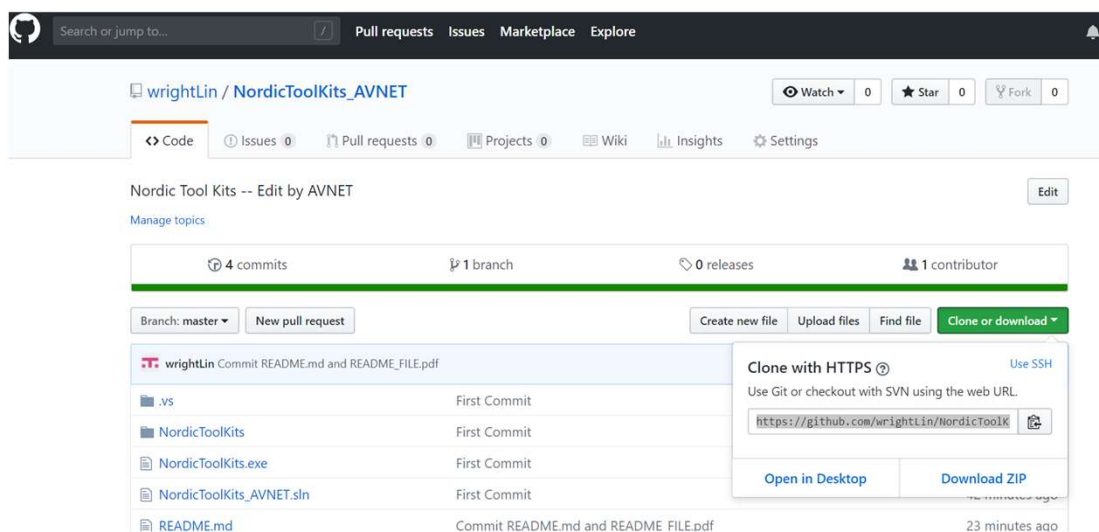
可於本機端預設安裝位置看到以下內容：



# 環境安裝

請下載 Nordic toolkits --AVNET :

- Source Code & Exe File : [https://github.com/wrightLin/NordicToolKits\\_AVNET](https://github.com/wrightLin/NordicToolKits_AVNET)



- 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

Nordic Toolkits -AVNET-

Programmer General **功能頁籤-燒錄**

**Single Target**

SoftDevice Path  Browse

Application Path  Browse  
 ☐ RBP

**1.單目標燒錄**

Recover Erase All Reset

**MultiTarget**

FilePath1  Browse

LinkNo1 <input type="text"/>	LinkNo5 <input type="text"/>
LinkNo2 <input type="text"/>	LinkNo6 <input type="text"/>
LinkNo3 <input type="text"/>	LinkNo7 <input type="text"/>
LinkNo4 <input type="text"/>	LinkNo8 <input type="text"/>
LinkNo9 <input type="text"/>	LinkNo10 <input type="text"/>

☐ RBP

Recover Erase All Reset

**AVNET**  
Reach Further™

版本號 → Version: 3.0.0

Nordic Toolkits -AVNET-

Programmer General **功能頁籤-通用**

**MergeHexFile**

MergeFile1  Browse

MergeFile2  Browse

MergeFile3  Browse

MergeFile4  Browse

OutputFileAddress  Browse

OutputFileName  ex.123.hex

**3.Merge Hex Files**

**UICR/BI Address**

Value (in hex)  ex. DEADBEEF

Register Address  ex.10001000

Device Address

**4.UICR & FICR Functions**

**ReadCode**

OutputHexAddress  Browse

OutputHexName  ex.123.hex

**5.Read Code**

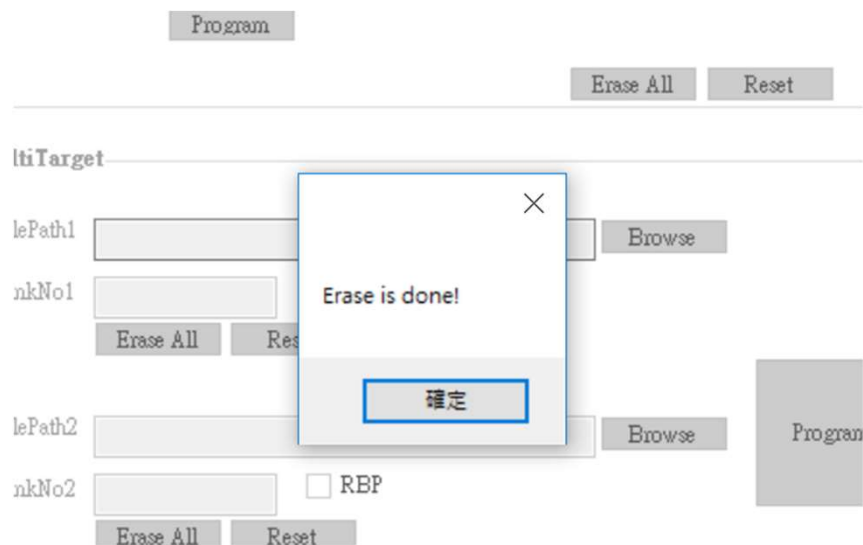
**AVNET**  
Reach Further™

Version: 3.0.0

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

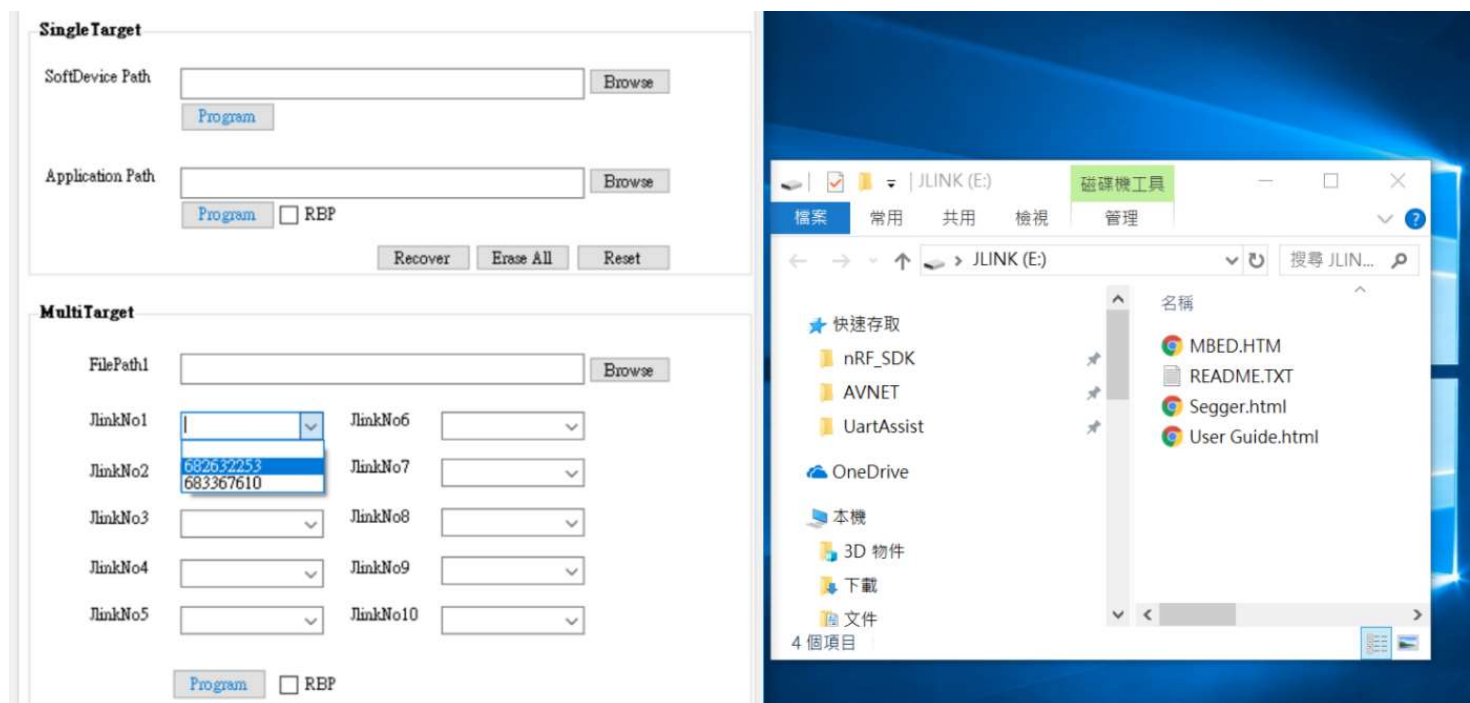
- 執行指令前，toolkit會自動去判斷連結 IC 為 52 or 51 系列，並修改對應指令。
- toolkits 會自動讀取目前所接 JLink IC Serial Number，並載入至 MultiTarget Dropdown List選單當中。

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

**ReadCode** 

OutputHexAddress	<input type="text" value="C:\Users\wright\Desktop\"/> 	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. <b>Limitations:</b> For nRF52 devices, the CR0 argument option is invalid.  <b>Important:</b> 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 annotation '3. 點擊program燒錄SD' points to the 'Program' button in the 'SoftDevice Path' section. Below the 'Application Path' section, there is a checkbox labeled 'RBP' which is checked. A red annotation '4. 點擊program燒錄app' points to the 'Program' button in the 'Application Path' section. A blue box highlights the text '如有Read back protection 請勾選' with a blue arrow pointing to the 'RBP' checkbox. An error dialog box is open, displaying the message: 'Process failed! Error : ERROR: The operation attempted is unavailable due to readback protection in ERROR: your device. Please use --recover to unlock the device.' The dialog has a '確定' (OK) button at the bottom right. At the bottom of the interface, there is a footer that says 'Avnet Confidential'.

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

Avnet Confidential

## 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

 **MDBT50Q MESH DONGLE**  ⋮

NOT BONDED  -47 dBm  199 ms

Device type: LE only



## 功能說明

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- 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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@nordicsemi.taiwan