



# LSM100A

## F/W Download Guide

Rev 1.0

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SJI

Dec. 23, 2021

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## History

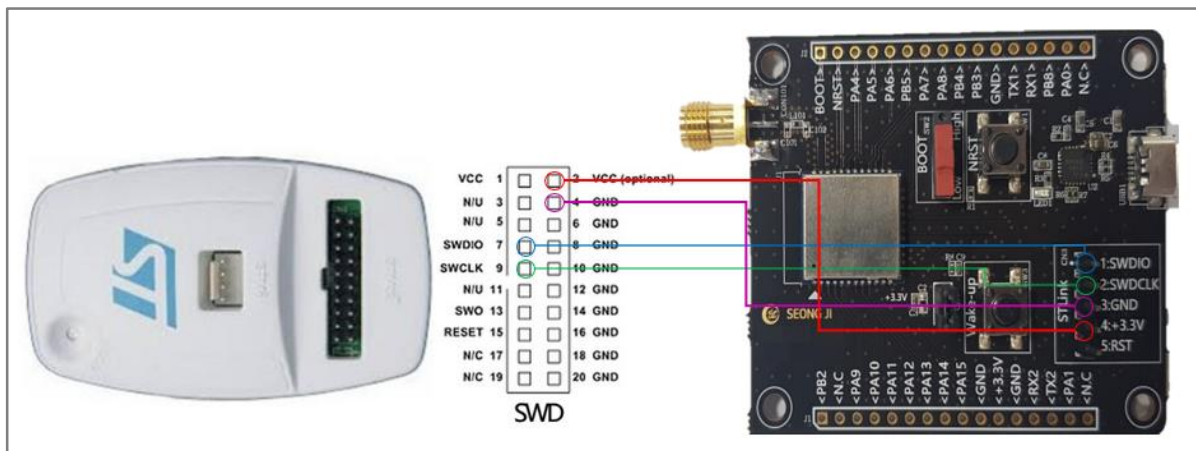
Date	Contents	Version	
2021-12-15	Create	V1.0	

# 1. F/W Download

## 1.1 Connect

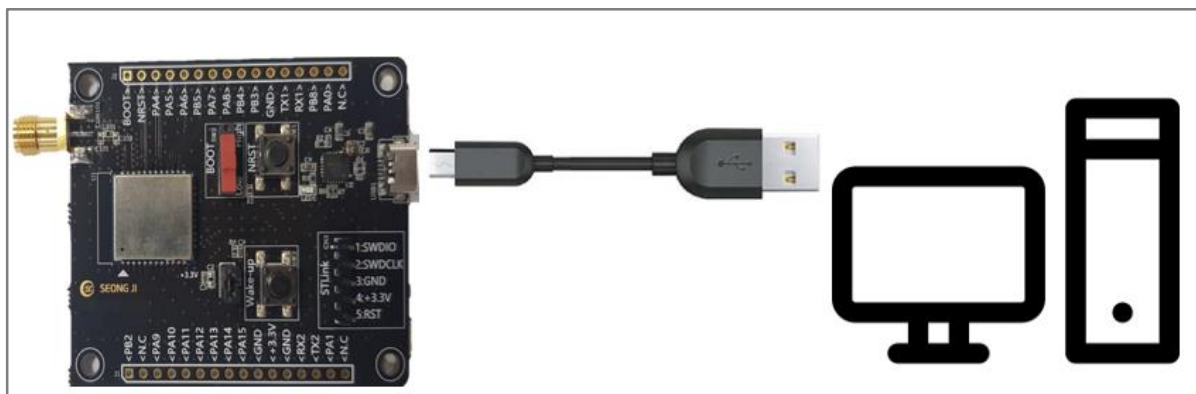
1) Connect STlink and module

- Connect the circuit as shown in the image below
- PC and STlink connection
  - Red: VCC
  - Blue: SWDIO
  - Green: SWCLK
  - Purple: GND



2) Connect PC and module

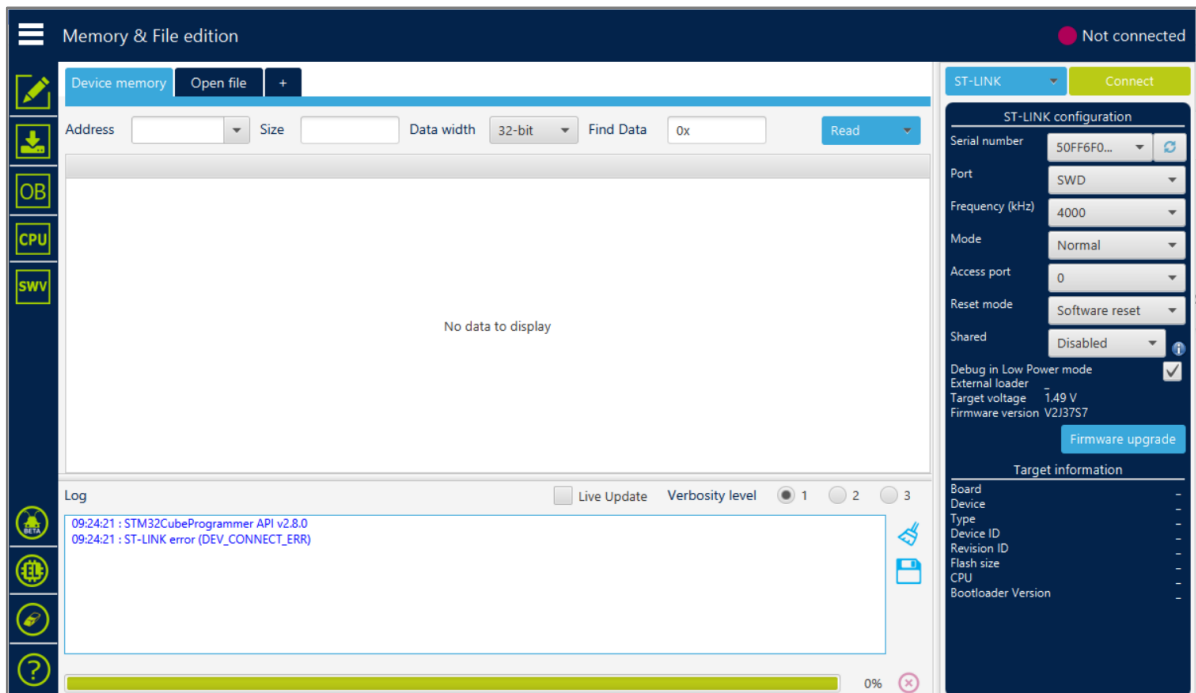
- PC and module connection using micro 5pin cable



## 1.2 F/W download using STM32 Cube Programmer

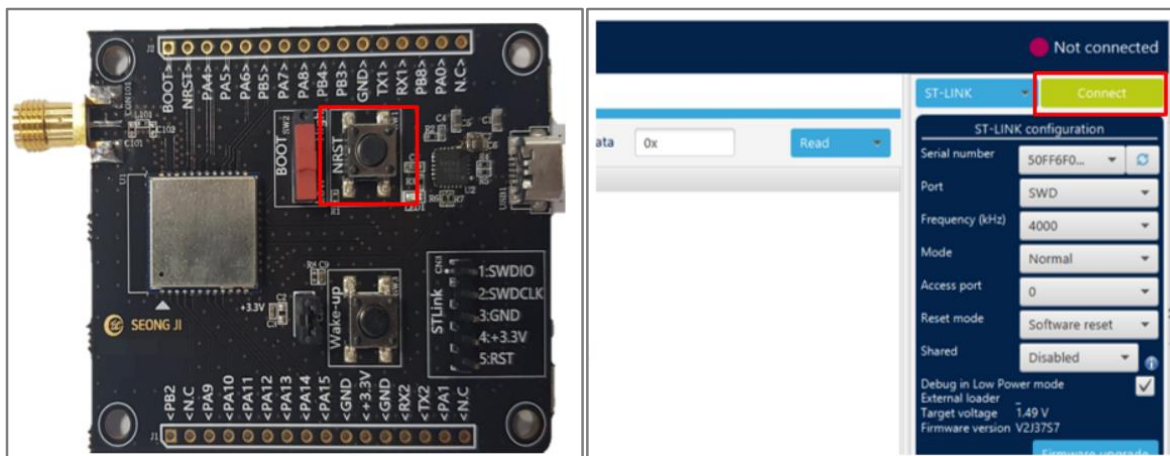
Note: STM32 Cube Programmer can be downloaded from the STMicroelectronics website below  
<https://www.st.com/en/development-tools/stm32cubeprog.html>

1) Open the STM32 Cube Programmer



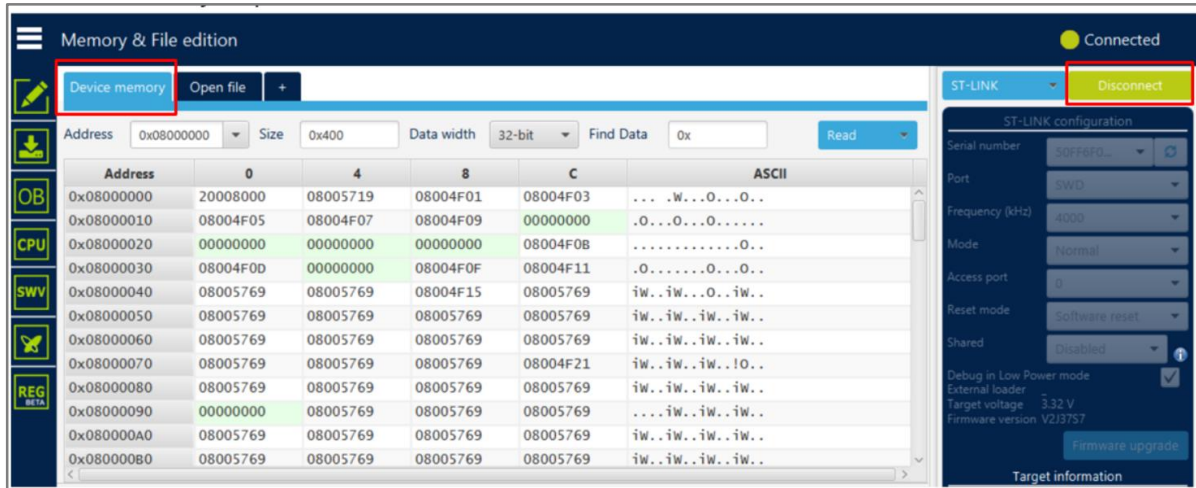
2) Connect the programmer and module

- While holding push the reset button, click connect of programmer and release the reset button



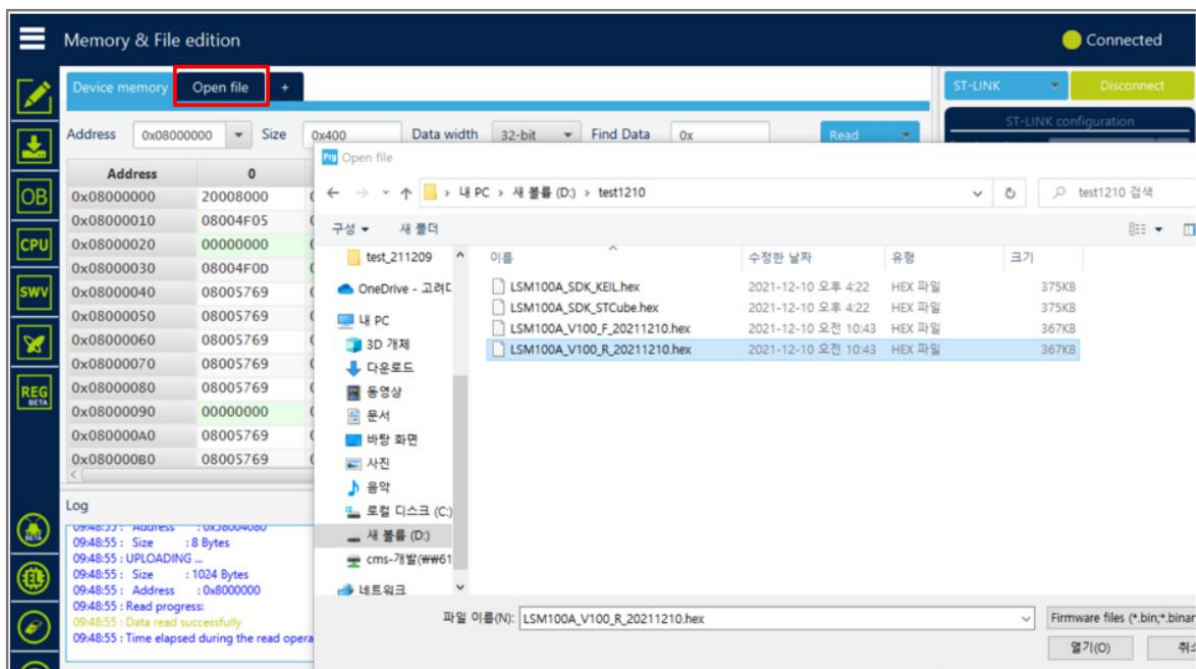
### 3) Check the connection

- The connect button changes to disconnect
- Device memory is print



### 4) Hexfile import

- open file click
- Load the hex file you want to download



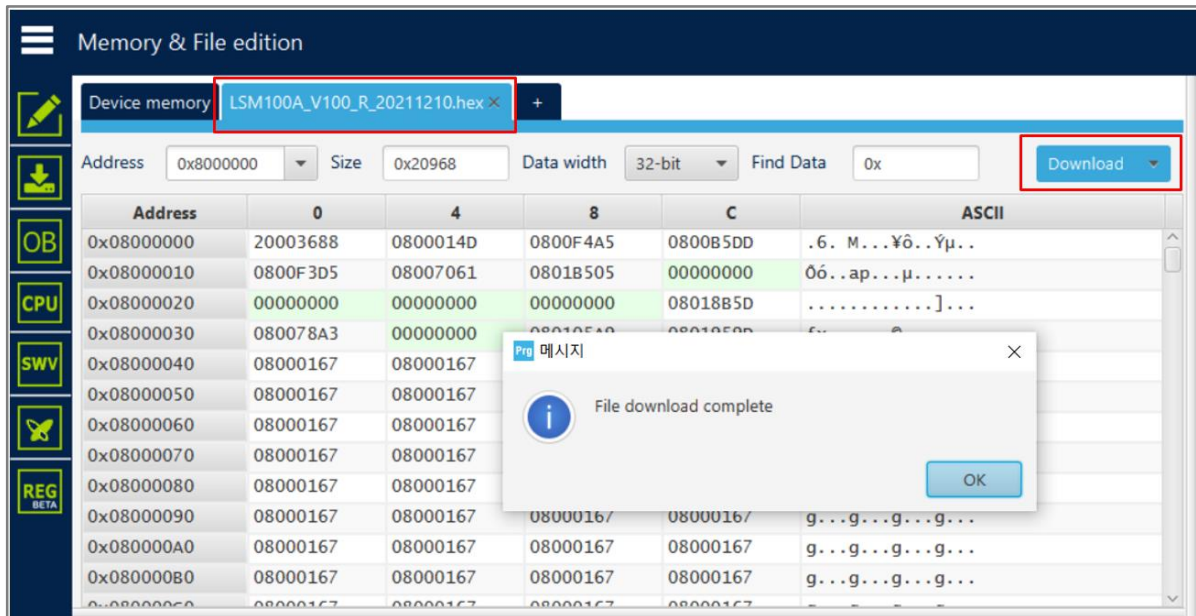
※ Warning: Never erase the entire memory

Users are responsible for any problems caused by the erase

※ Warning: Users are responsible for any problems resulting from the use of any hexfile other than the provided hexfile

##### 5) Download

- Click Download in the loaded hex file tab
- After that, check the "File download complete" message



##### 6) Check the booting log

- Check the booting log using serial monitoring program

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SEONGJI INDUSTRIAL CO., LTD.
-----
>> Device : LSM100A
>> Mode   : LoRa
-----
>> APP_VERSION:      V1.0.0
>> MH_LORAWAN_VERSION: V2.3.0
>> MH_RADIO_VERSION:  V1.1.0
>> TXPOWER MODE :    LOWPOWER
----- OTAA -----
>> AppKey:  2B:7E:15:16:28:AE:D2:A6:AB:F7:15:88:09:CF:4F:3C
>> NwkKey:  2B:7E:15:16:28:AE:D2:A6:AB:F7:15:88:09:CF:4F:3C
----- ABP -----
>> AppSKey:  2B:7E:15:16:28:AE:D2:A6:AB:F7:15:88:09:CF:4F:3C
>> NwkSKey:  2B:7E:15:16:28:AE:D2:A6:AB:F7:15:88:09:CF:4F:3C
-----
>> DevEui:  00:80:E1:15:00:09:DC:47
>> AppEui:  01:01:01:01:01:01:01:01
>> DevAddr: 00:09:DC:47
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BOOTALERT

```