



LSM1x0A

F/W Download Guide

Rev 1.3

SJI

Fed. 02, 2023

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History

Date	Contents	Version	
2022-04-18	Create	V1.0	
2022-06-03	Add F/W merge (IAP + F/W)	V1.1	
2023-02-01	Delete unnecessary content	V1.2	
2023-02-02	Changed IAP speed(baud rate)	V1.3	

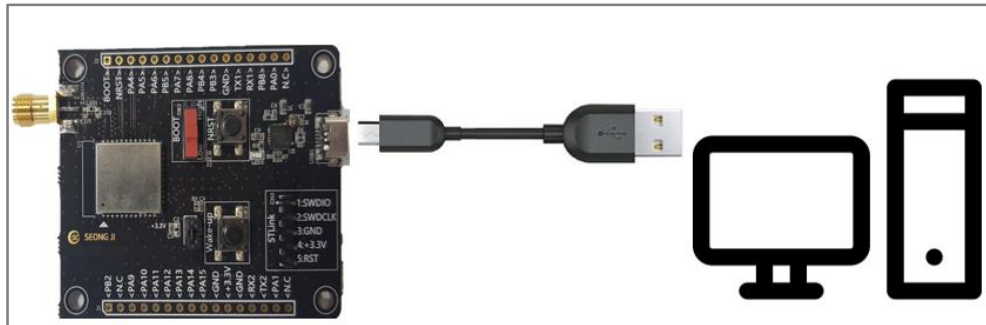
1. F/W Download - IAP

note: F/W downloader using IAP

Run as a Ymodem-enabled program (Extra putty, tera term, etc.)

Connect PC and module

- PC and module connection using micro 5pin cable

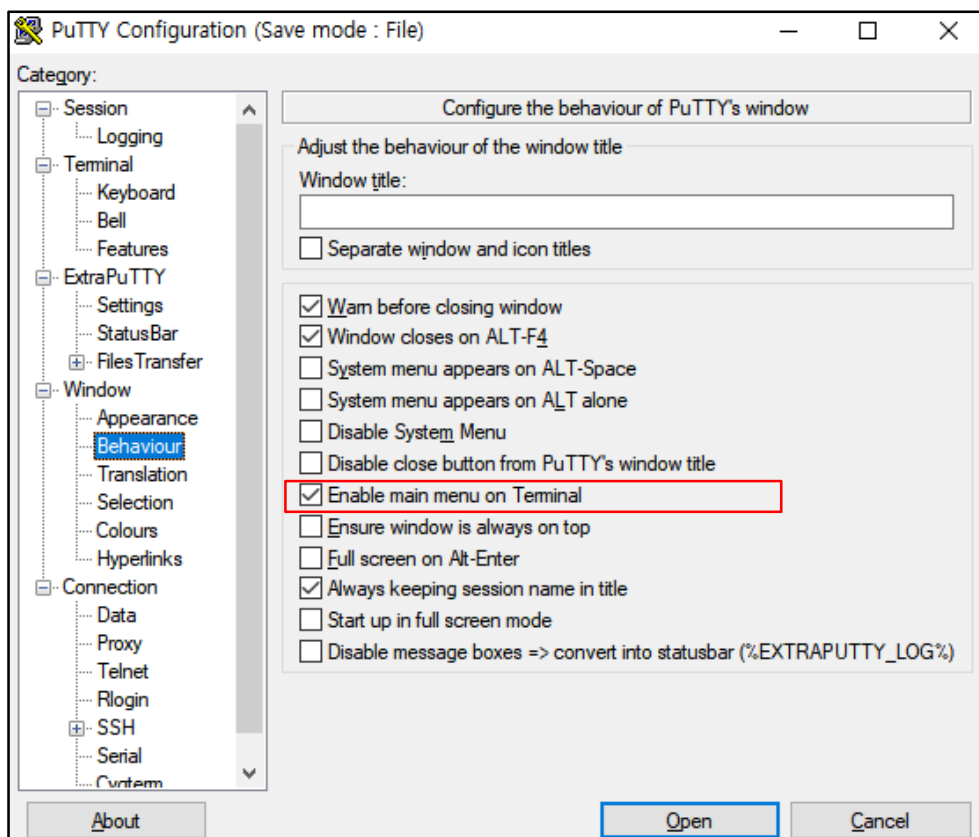


1.1 F/W download using Extra putty

Putty version: [Extra putty 0.30](#)

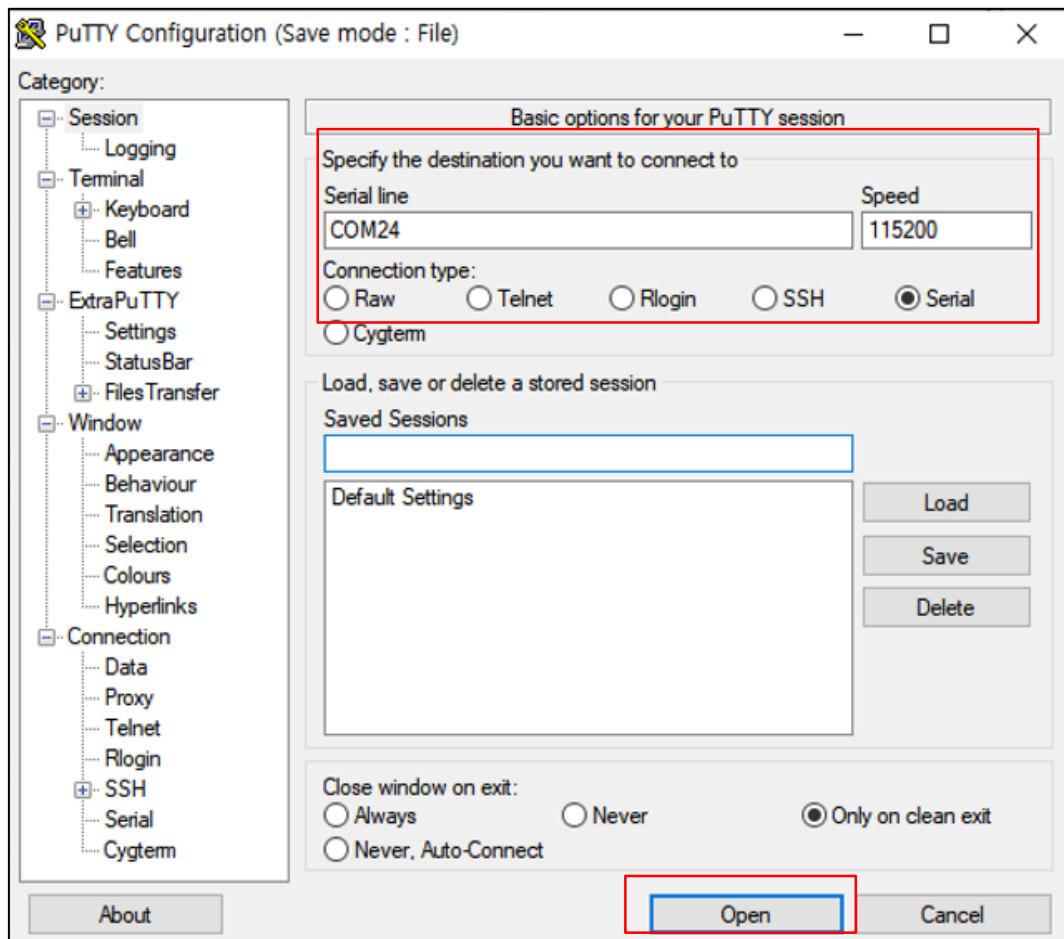
1)Putty standard setting

- Window -> Behaviour -> "Enable menu on Terminal" check



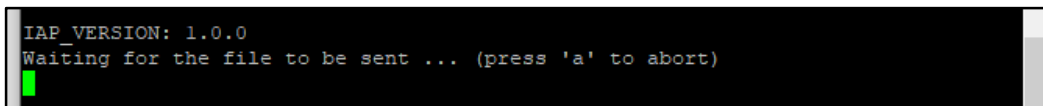
2) Serial connection

- Connection type: Serial
- Serial line: module port number Ex) COM24
- Speed(baud rate): 115200
- After setting as above, "Open" button click



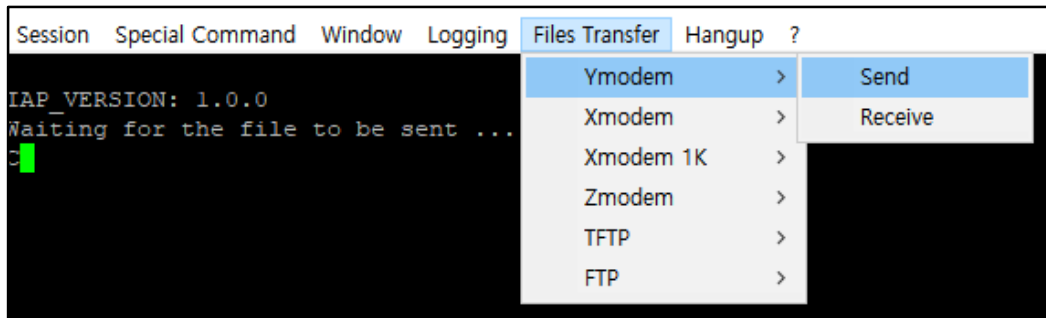
3) Start download mode

- Press reset and enter '1' within 0.5 seconds

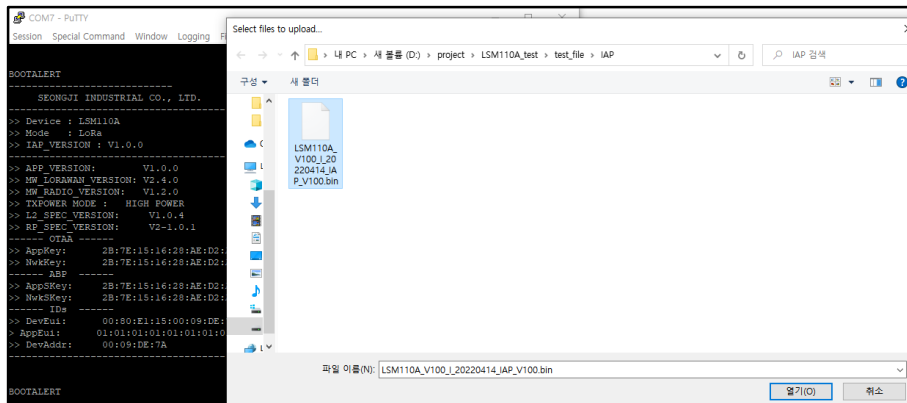


4) In download mode

- Files Transfer -> Ymodem -> Send click

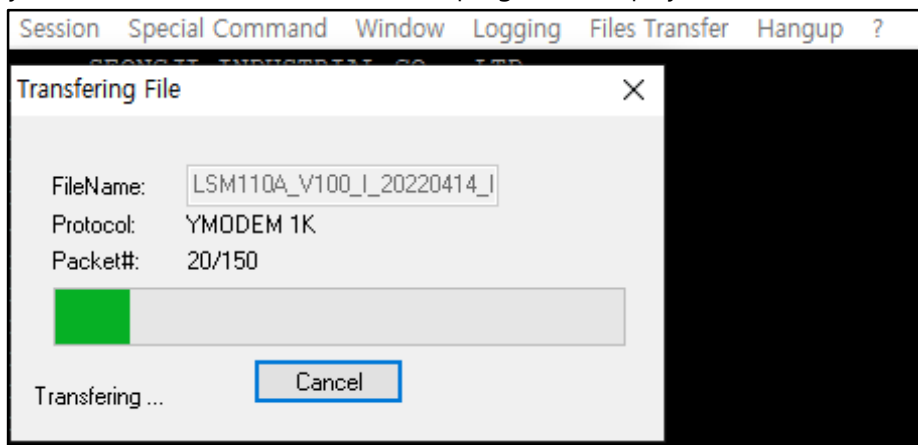


5) Find and select the .bin file you want to install



※ Warning: In addition to binary (.bin) files created by building SDKs, you are responsible for any problems that occur when using other binary (.bin) files.

6) If you select a bin file and send it, the progress is displayed as shown in the figure below



7) After the download is complete, the size of the binary is printed and F/W is booted
- User FW Speed(baud rate): 9600

Size: 152384 Bytes

SEONGJI INDUSTRIAL CO., LTD.

>> Device : LSM110A
>> Mode : LoRa
>> IAP_VERSION : V1.0.0

>> APP_VERSION: V1.0.0
>> MH_LORAWAN_VERSION: V2.4.0
>> MH_RADIO_VERSION: V1.2.0
>> TXPOWER MODE : HIGH POWER
>> L2_SPEC_VERSION: V1.0.4
>> RP_SPEC_VERSION: V2-1.0.1

----- 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
----- IDs -----

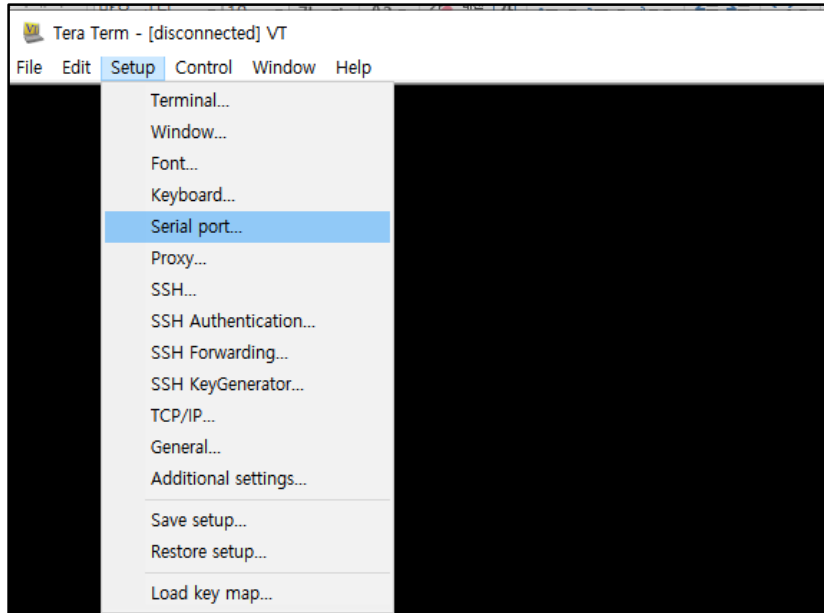
>> DevEui: 00:80:E1:15:00:09:0E:7A
> AppEui: 01:01:01:01:01:01:01:01
>> DevAddr: 00:09:0E:7A

1.2 F/W download using Tera term

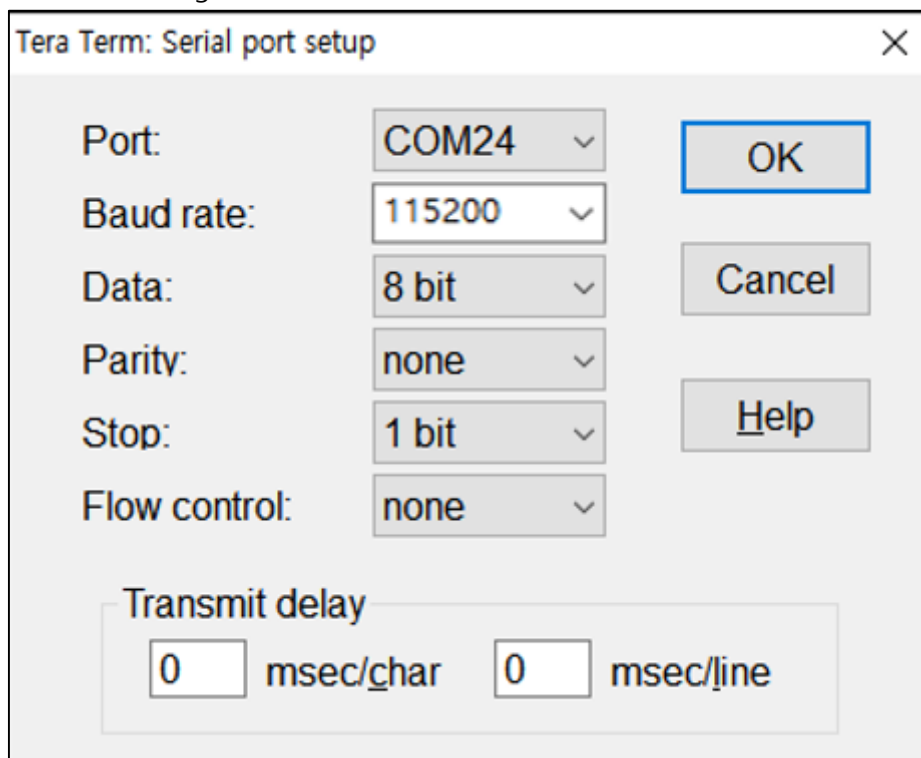
Note: tera term does not work in the latest version(4.106), use version 4.72

1) Serial connection

- Setup -> "Serial port..." click



- Port: module port number Ex) COM24
- Baud rate: 9600
- After setting as above, "OK" button click

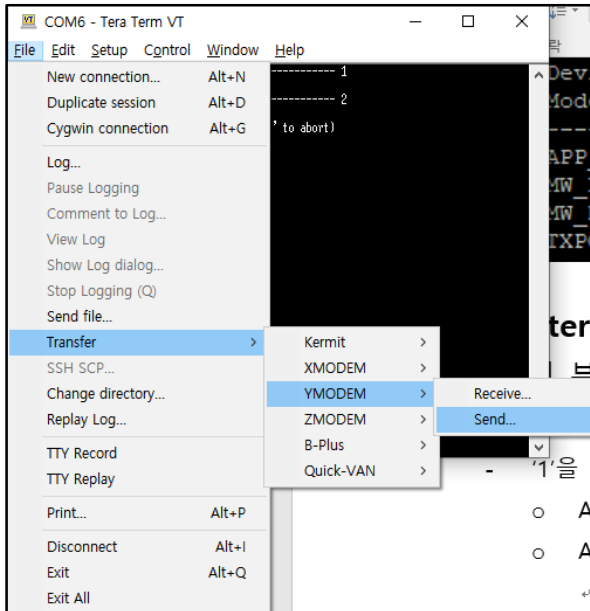


2) Start download mode

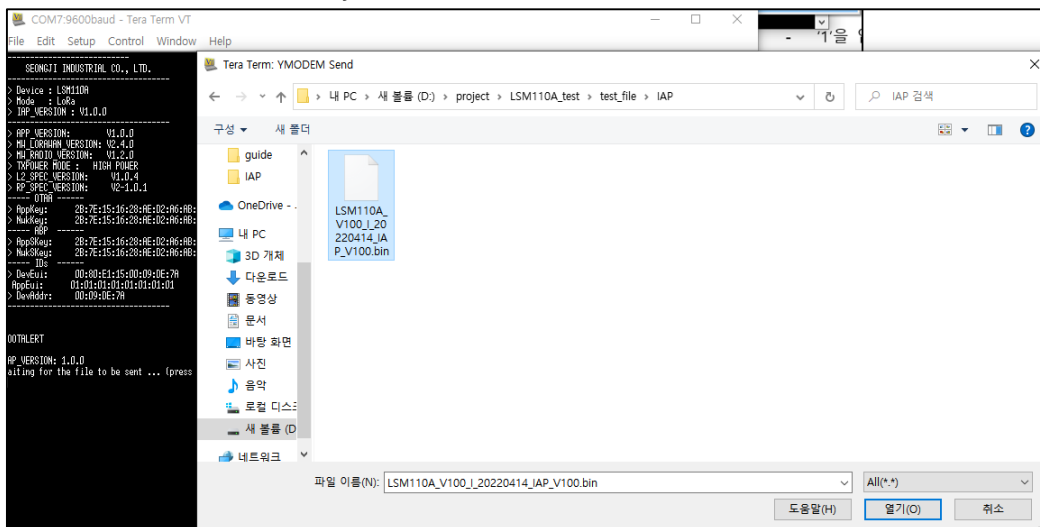
- Press reset and enter '1' within 0.5 seconds

```
IAP VERSION: 1.0.0
Waiting for the file to be sent ... (press 'a' to abort)
```

3) In download mode

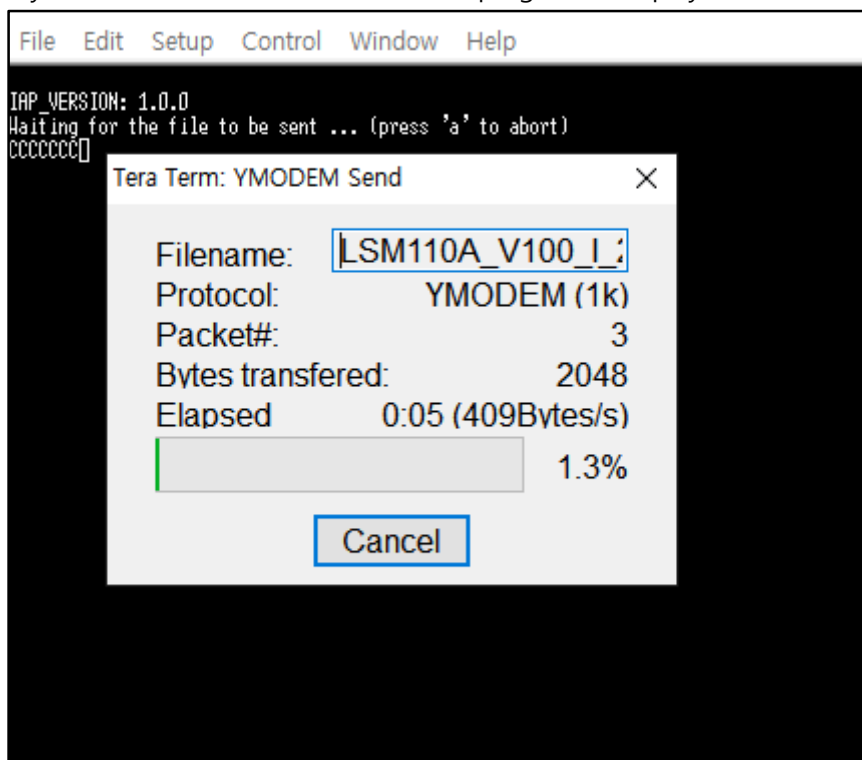


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- 5) If you select a bin file and send it, the progress is displayed as shown in the figure below



- 6) After the download is complete, the size of the binary is printed and F/W is booted

- User FW Speed(baud rate): 9600

```
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>> NwkSKey: 2B:7E:15:16:28:AE:D2:A6:AB:F7:15:88:09:CF:4F:3C
----- IDs -----
>> DevEui: 00:80:E1:15:00:09:DE:7A
> AppEui: 01:01:01:01:01:01:01:01
>> DevAddr: 00:09:DE:7A
-----
```