LSM1x0A

F/W Download Guide

Rev 1.5

SJIT

Nov. 17, 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	
2023-07-03	Add factory reset process after firmware download	V1.4	
2023-11-17	Add F/W download using Tera term macro(Ymodem ttl)	V1.5	

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

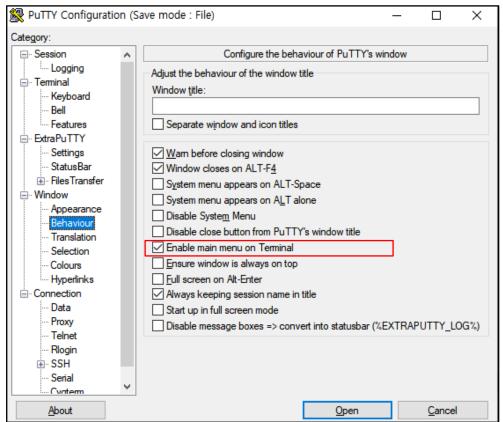


1.1 F/W download using Extra putty

Putty version: Extra putty 0.30

1)Putty standard setting

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



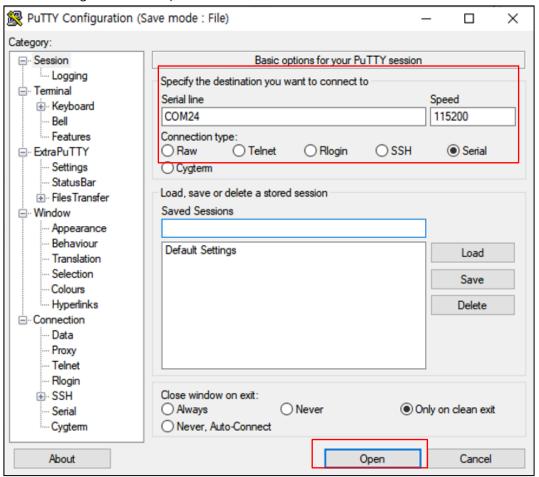
2) Serial connection

- Connection type: Serial

- Serial line: module port number Ex) COM24

- Speed(baud rate): 115200

- After setting as above, "Open" button click



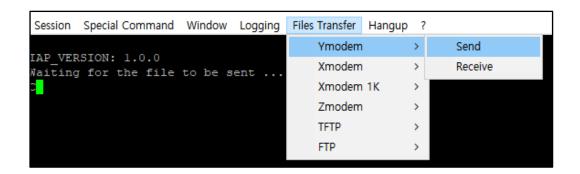
3) Start download mode

- Press reset and enter '1' within 0.5 seconds

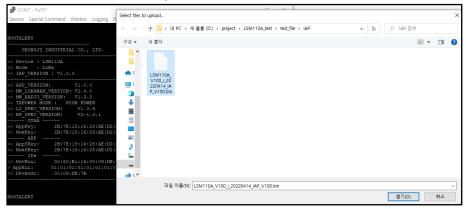
```
IAP_VERSION: 1.0.0
Waiting for the file to be sent ... (press 'a' to abort)
```

4) In download mode

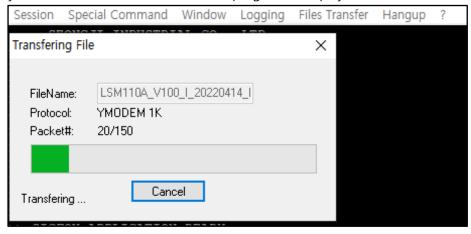
- Files Transfer -> Ymodem -> Send click



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



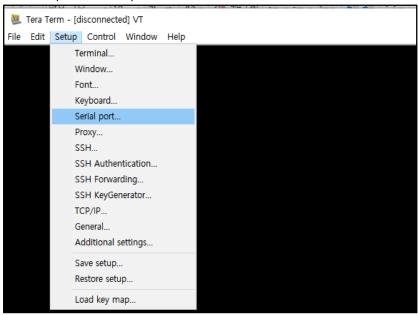
- 7) After the download is complete, the size of the binary is printed and F/W is booted
 - User FW Speed(baud rate): 9600

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

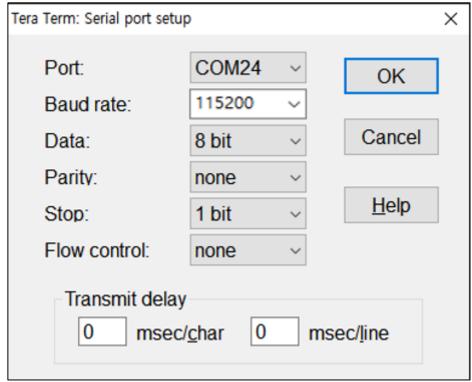
- Setup -> "Serial port..." click



- Port: module port number Ex) COM24

- Baud rate: 115200

- After setting as above, "OK" button click

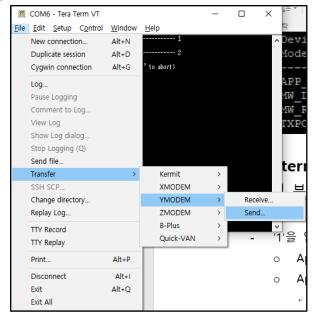


2) Start download mode

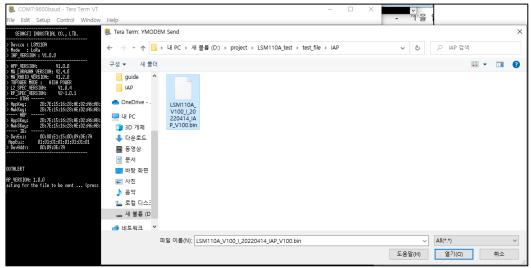
- Press reset and enter '1' within 0.5 seconds

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

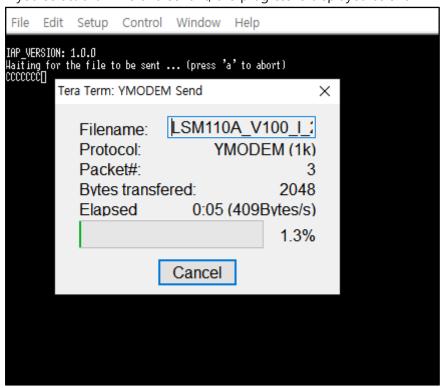
3) In download mode



4) 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. 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

```
Size: 152384 Bytes

SEONGJI INDUSTRIAL CO., LTD.

Device : LSM110A

Mode : LoRa

IAP_VERSION : V1.0.0

PRODUCT : V1.0.0

HI LORAHAN VERSION: V1.0.0

HI LORAHAN VERSION: V1.0.0

HI RADIO VERSION: V1.0.4

PRODUCT SERSION: V1.0.4

RP SPEC VERSION: V1.0.4

RP SPEC VERSION: V2-1.0.1

----- OTHA

----- OTHA

----- ABP

MukKey: 28:7E:15:16:28:AE:02:A6:AB:F7:15:88:09:CF:4F:3C

MukKey: 28:7E:15:16:28:AE:02:A6:AB:F7:15:88:09:CF:4F:3C

MukSkey: 28:7E:15:16:28:AE:02:A6:AB:F7:15:88:09:CF:4F:3C

MukSkey: 28:7E:15:16:28:AE:02:A6:AB:F7:15:88:09:CF:4F:3C

MukSkey: 08:7E:15:16:28:AE:02:A6:AB:F7:15:88:09:CF:4F:3C

MukSkey: 08:7E:15:16:28:AE:02:A6:AB:F7:15:88:09:CF:4F:3C
```

6) After setting Sigfox Mode, please set Initializing of restore flash factory settings by using ATCommand "AT\$RFS"

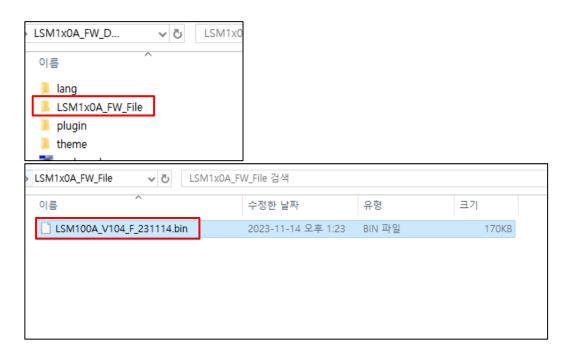


(If you don't setting 'Initializing of restore flash factory settings', using updated RC lastly is not available)

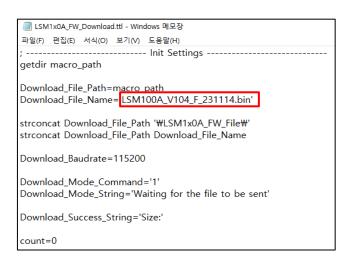
1.3 F/W download using Tera term macro

Open folder 'LSM1x0A_FW_Download_Ymodem(ttl)'
 (File path : LSM100A\Utilities\UTilities\UTilityPC program)

2) Make a folder named 'LSM1x0A_FW_File' in 'LSM1x0A_FW_Download_Ymodem(ttl)'. And add a bin file you want to download



- 3) Set up the 'LSM1x0A_FW_Download.ttl' file
 - Enter the F/W file name to download in 'Download_File_Name.'



- Enter the module port number in 'CONNECT '/C'.



- 4) Excute 'LSM1x0A_FW_Dwonload_Ymodem.bat'
 - If you press the module reset button within 5 seconds, the download will begin.

