LSM1x0A

F/W Download Guide

Rev 1.5

SJIT

January, 16, 2024

Contents

| 1. F/W DOWNLOAD - IAP | . 3 |
|------------------------------------|-----|
| | |
| 3.1 F/W download using Extra putty | . 3 |
| 3.2 F/W DOWNLOAD USING TERA TERM | 7 |

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 | |

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

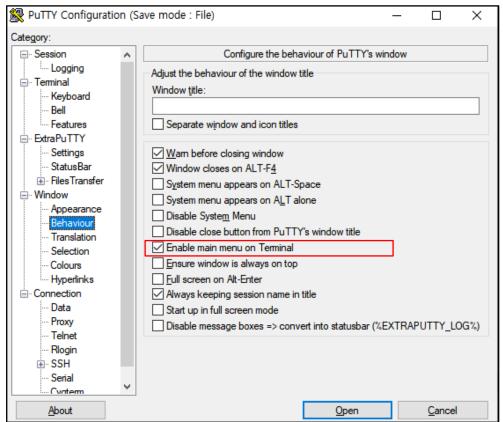


1.1 F/W download using Extra putty

Putty version: Extra putty 0.30

1)Putty standard setting

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



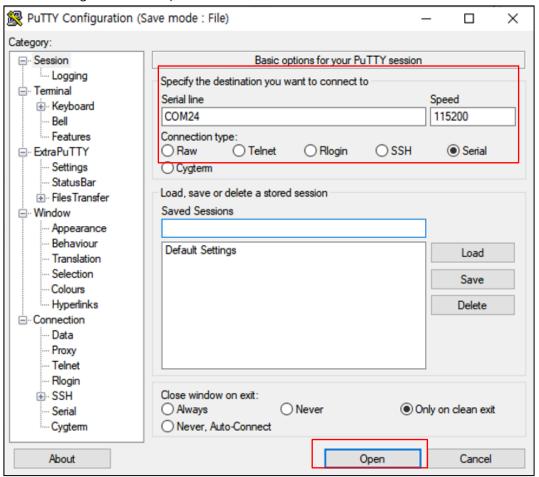
2) Serial connection

- Connection type: Serial

- Serial line: module port number Ex) COM24

- Speed(baud rate): 115200

- After setting as above, "Open" button click



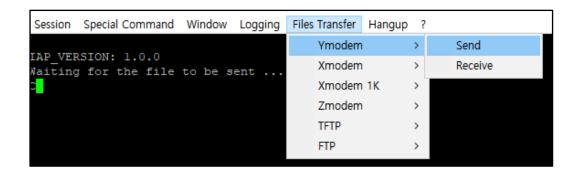
3) Start download mode

- Press reset and enter '1' within 0.5 seconds

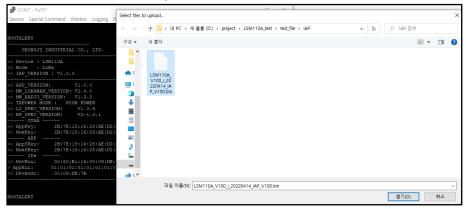
```
IAP_VERSION: 1.0.0
Waiting for the file to be sent ... (press 'a' to abort)
```

4) In download mode

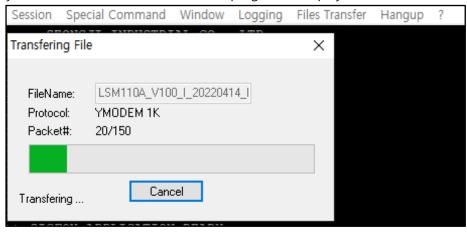
- Files Transfer -> Ymodem -> Send click



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



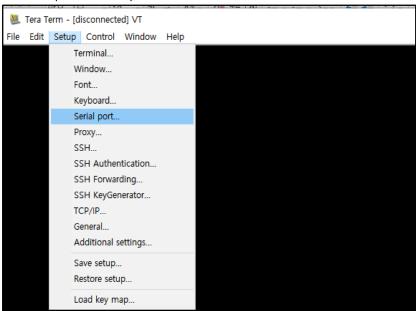
- 7) After the download is complete, the size of the binary is printed and F/W is booted
 - User FW Speed(baud rate): 9600

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

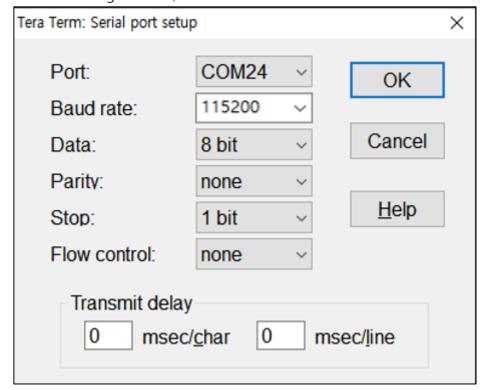
- Setup -> "Serial port..." click



- Port: module port number Ex) COM24

- Baud rate: 115200

- After setting as above, "OK" button click

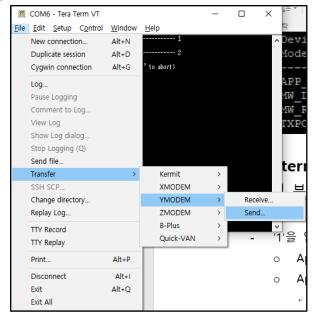


2) Start download mode

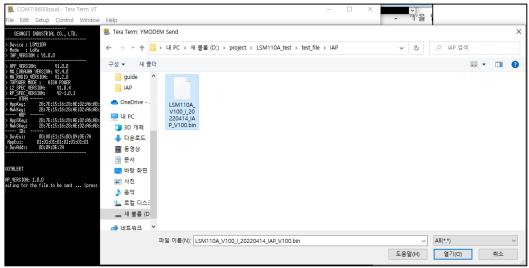
- Press reset and enter '1' within 0.5 seconds

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

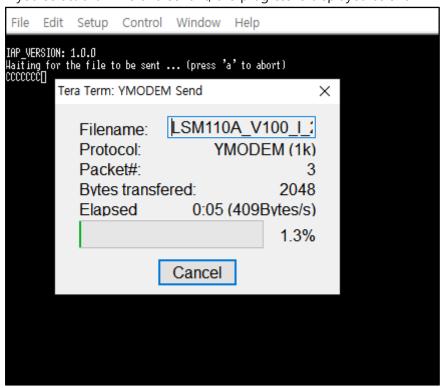
3) In download mode



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

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)