

LSM1x0A

F/W Download Guide

Rev 1.3

SJI

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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	

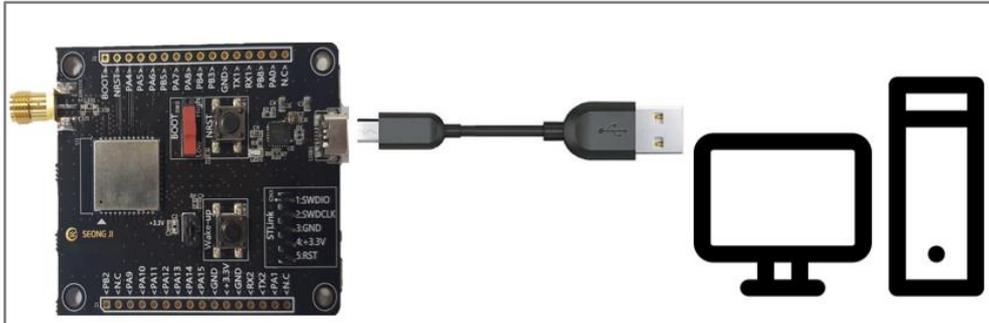
1. F/W Download - IAP

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

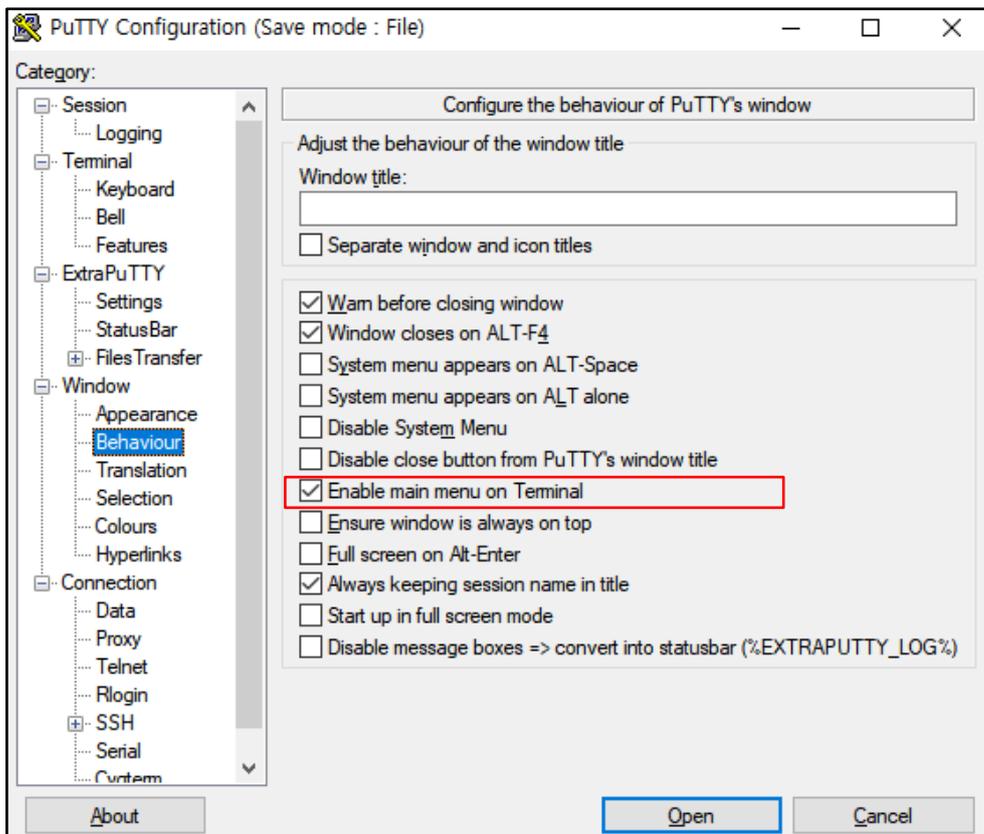


1.1 F/W download using Extra putty

Putty version: [Extra putty 0.30](#)

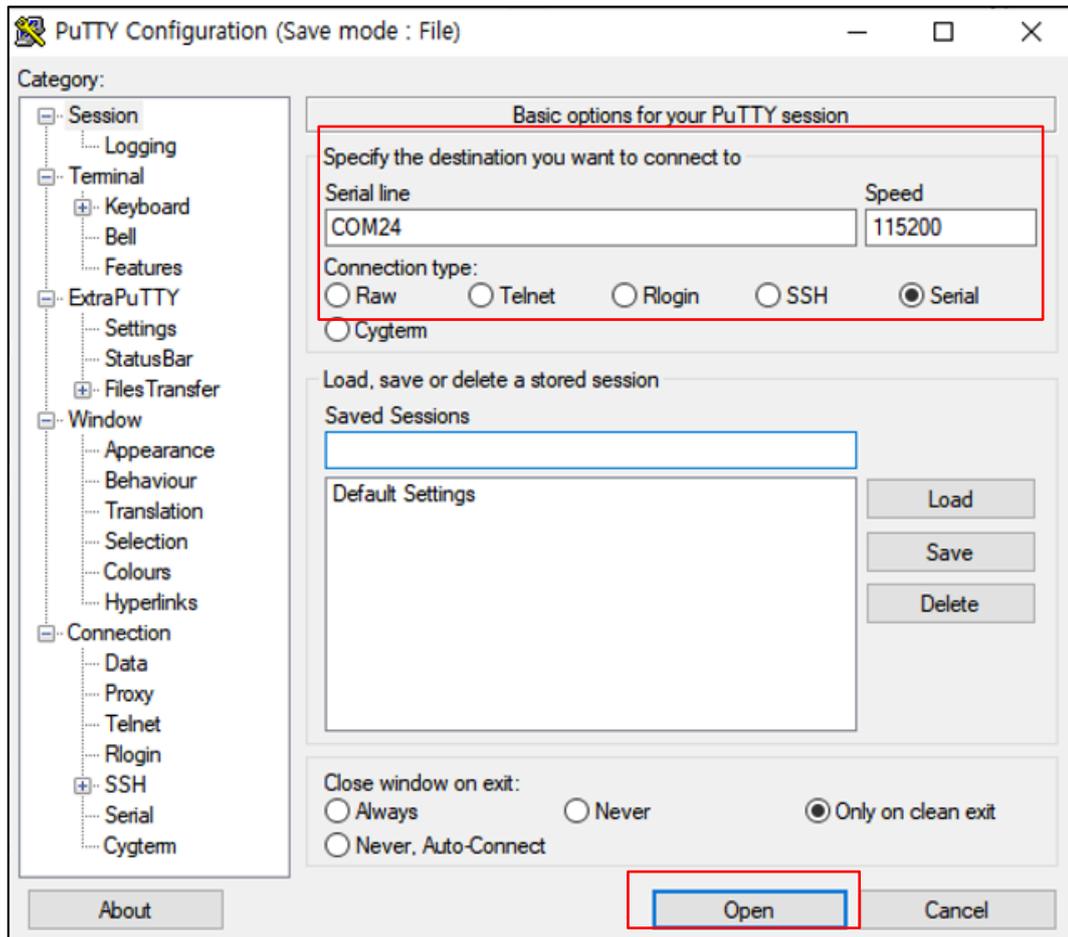
1)Putty standard setting

- 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



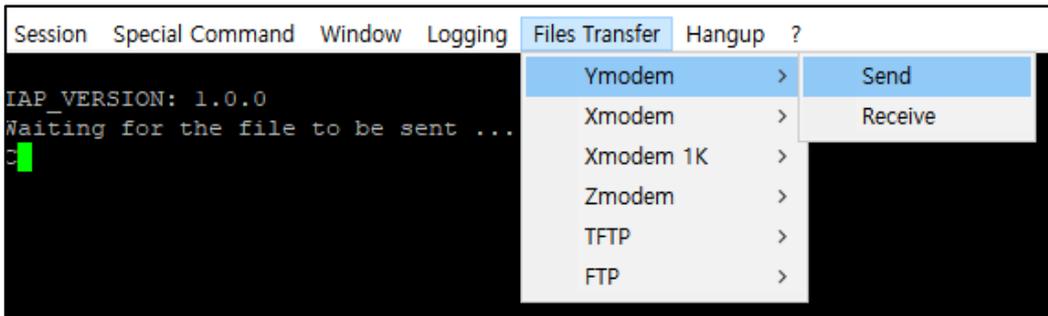
3) Start download mode

- Press reset and enter '1' within 0.5 seconds

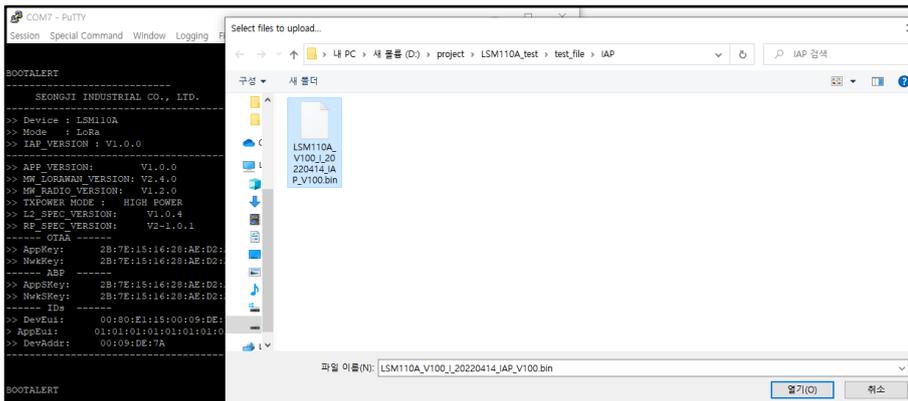
```
IAP_VERSION: 1.0.0
Waiting for the file to be sent ... (press 'a' to abort)
```

4) In download mode

- Files Transfer -> Ymodem -> Send click

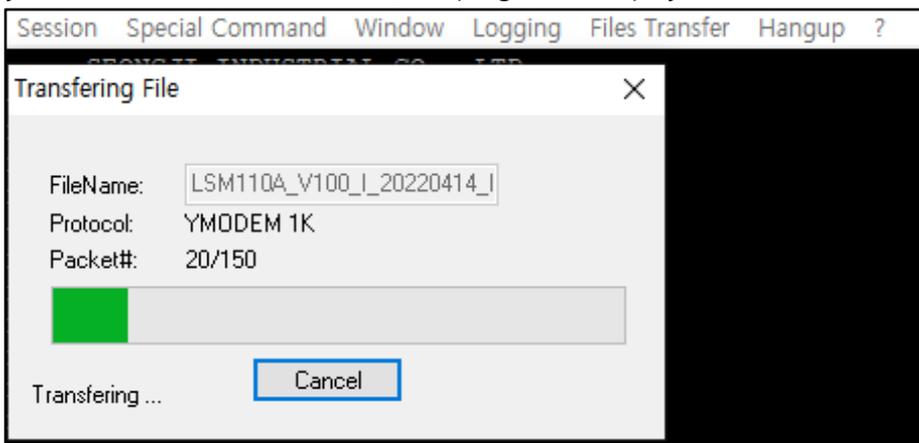


5) Find and select the .bin file you want to install



※ 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

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

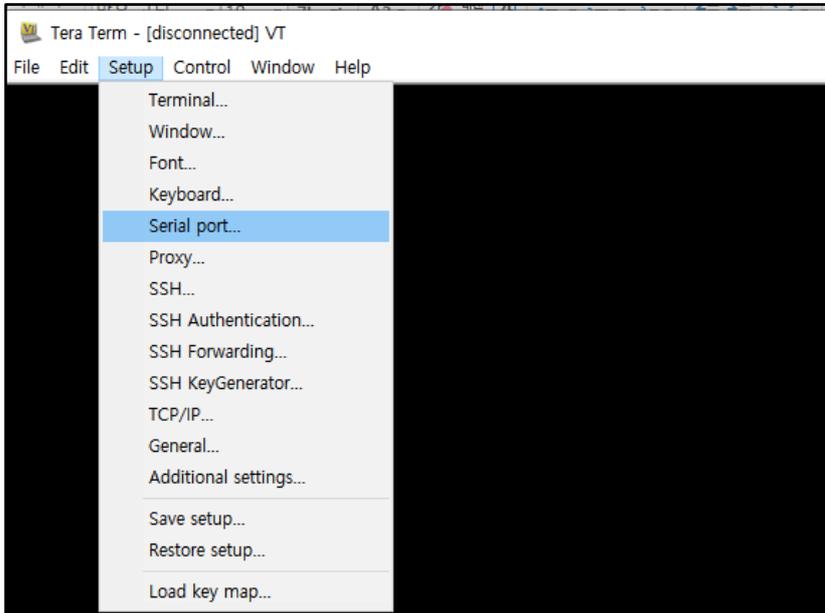
----- IDs -----
>> DevEui: 00:80:E1:15:00:09:0E:7A
> AppEui: 01:01:01:01:01:01:01:01
>> DevAddr: 00:09:0E:7A

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

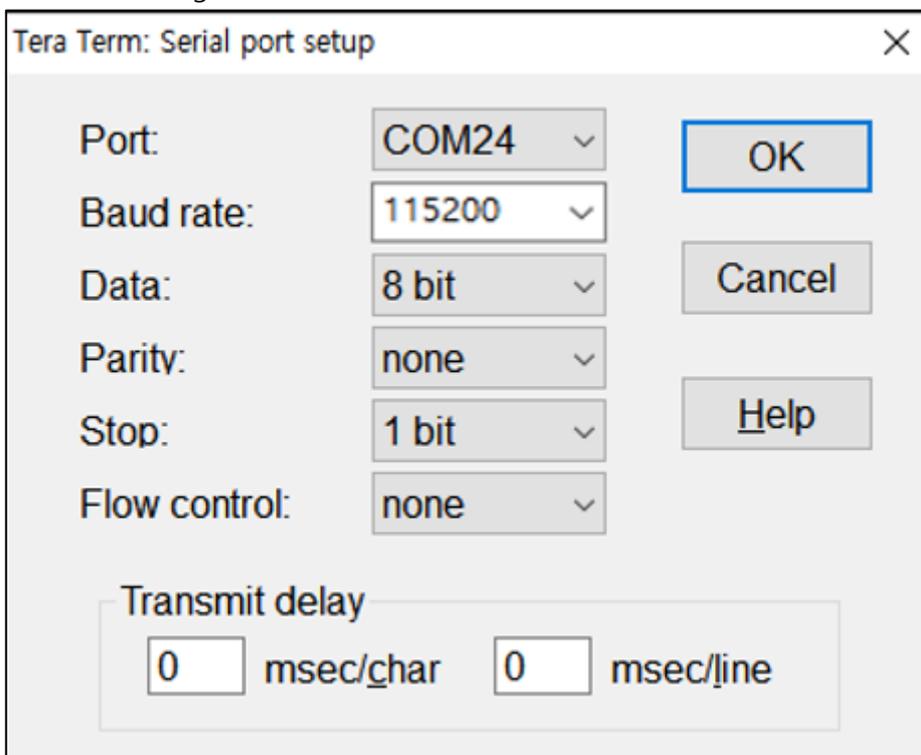
- Setup -> "Serial port..." click



- Port: module port number Ex) COM24

- Baud rate: 115200

- After setting as above, "OK" button click

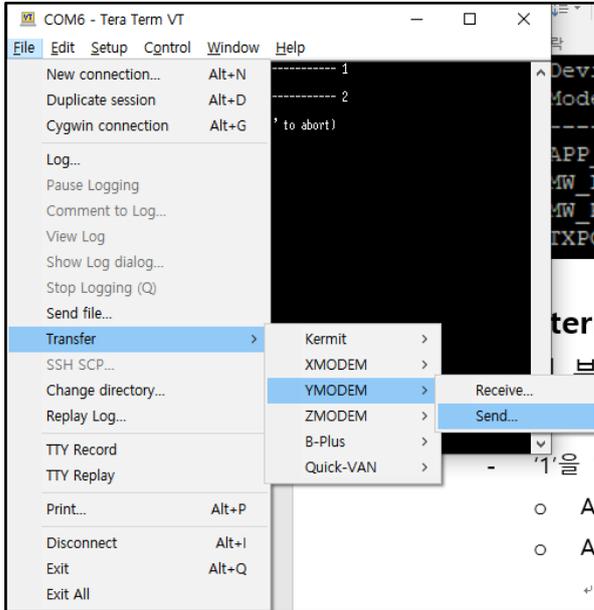


2) Start download mode

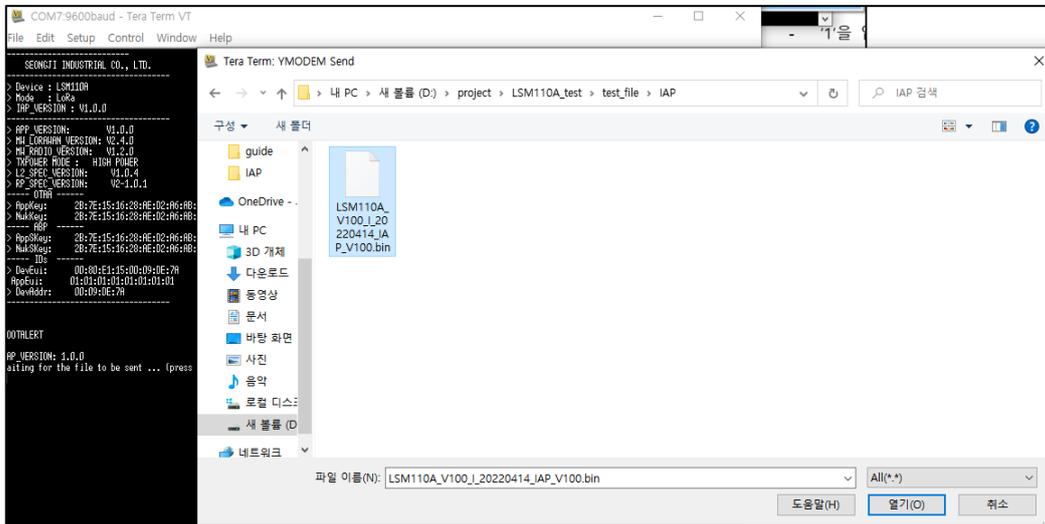
- Press reset and enter '1' within 0.5 seconds

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

3) In download mode

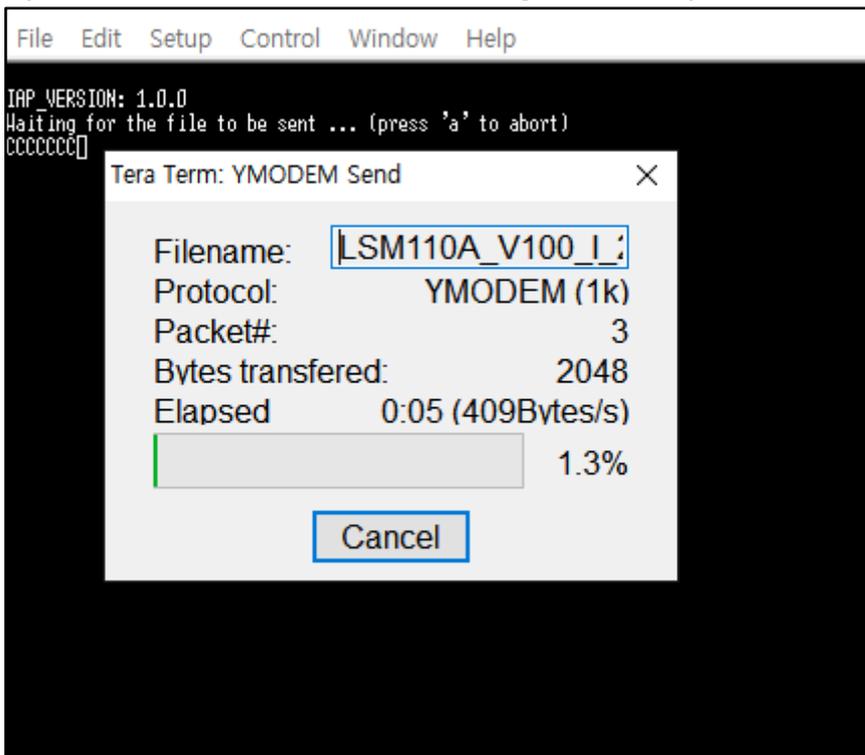


4) Find and select the .bin file you want to install



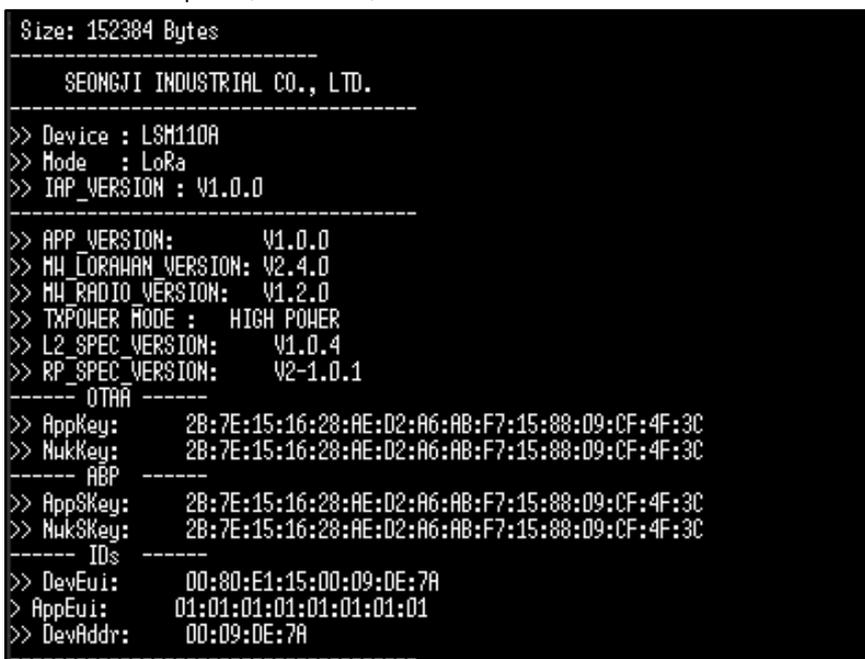
※ Warning: In addition to binary (.bin) files created by building SDKs, you are responsible for any problems that occur when using other binary (.bin) files.

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"



A screenshot of a software interface for sending AT commands. It features a text input field containing the command "AT\$RFS" and a button labeled "AT SEND" to the right of the field.



A screenshot of the response received after sending the AT\$RFS command. The response is displayed in a text area and includes the command name, the manufacturer name, and the device and mode information.

```
AT$RFS
-----
SEONGJI INDUSTRIAL CO., LTD.
-----
>> Device : LSM100A
>> Mode  : Sigfox
```

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