

# Upgrade firmware for AT04\_AT05 by Flashtool

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## 1 Preface

### 1.1 Document Purpose

This document was released to help you understand how to flash the firmware for AT04/05 2G device.

### 1.2 Reference

This document is supposed to work with other document or program. All related document or program listed below can be found in our online document library.

- [01 Datasheet](#) – device technical specification (.pdf).
- [02 User Manual](#) – A guide to help you understand the feature of the device and command list (.pdf).
- [03 Quick start](#) – IO port connection reference and how to quick start the device(.pdf).
- [04 Protocol](#) – data string from device to server and acceptable SMS/GPRS command(.pdf).
- [05 Configuration Guide](#) – instruction on how to configure device (.pdf).
- [06 Configuration tool](#)– configurator manager to read/save preset setting to device (.exe).
- [07 Upgrade firmware for AT04 05 by Flashtool](#) – ([this document](#)) User guide to upgrade firmware for AT04/AT05



**Online Document Library:** [Document online Library](#)

### 1.3 Compatibility

This document is compatible with the following Totemtek products:

- AT04 2G
- AT05 2G

### 1.4 Term of use

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## 1.5 Document History

| Date       | Version | Update         |
|------------|---------|----------------|
| 2020-01-04 | 1.0.0   | First release. |
|            |         |                |

## 2. Things before start

Before you start to connect the device with PC/Laptop, make sure you have below things ready.

### 2.1 Hardware/Software

- PC or laptop (windows based)
- Device with enough battery (check if the LED is blinking when you power on the device).
- Regulated DC power supply DC 12V/24V (in case device is in low battery).
- USB to serial cable: a USB cable with bigger header which built with USB-to-Serial chipset.



- **USB to serial driver cable**

The USB to serial cable requires windows driver. Download from below link before any operation



**Download cable driver from Totemtek website:** [USB to serial cable driver](#)

- **Flashtool**

The configurator Manager requires .Net framework component. If you are not sure, you can check control panel → Apps list in your Windows.



**Download Flashtool from Totemtek website:** [Flashtool](#)

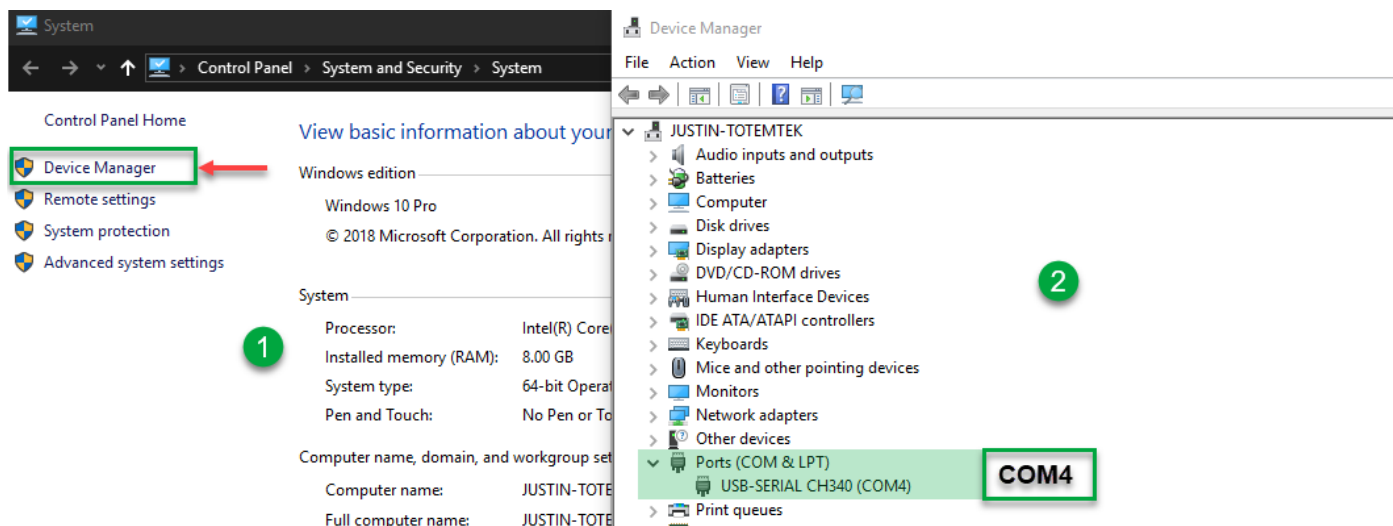
### 2.2. Flashtool

|                        |                    |                       |          |
|------------------------|--------------------|-----------------------|----------|
| ConsoleMode_v3_4.xsd   | 2016-06-07 4:08 PM | XML Schema File       | 9 KB     |
| ConsoleMode_v4_0.xsd   | 2016-06-07 4:08 PM | XML Schema File       | 20 KB    |
| DualTalkSwitchTool.exe | 2016-06-07 4:08 PM | Application           | 484 KB   |
| Flash_tool.exe         | 2018-05-11 6:02 PM | Application           | 2,806 KB |
| Flash_tool.INI         | 2019-12-11 4:32 PM | Configuration sett... | 10 KB    |
| FlashToolLib.dll       | 2018-05-11 6:02 PM | Application extens... | 1,179 KB |

Flash\_tool.exe: this is 3<sup>rd</sup> tool for AT04, AT05 to flash the firmware.

### 2.3. Set up the correct COM port for Flashtool

After driver has been installed, plug the USB cable into PC.



1. In Computer properties, go to 'Device manager'.
2. Expand 'Port (COM & LPT)', find 'USB –SERIAL CH340(COM4)'.

**CAUTION:** 1. Port will only appear when USB to serial cable has plugged into PC.

2. COM4 is the number you will use for configurator manager, firmware update and IMEI writer.

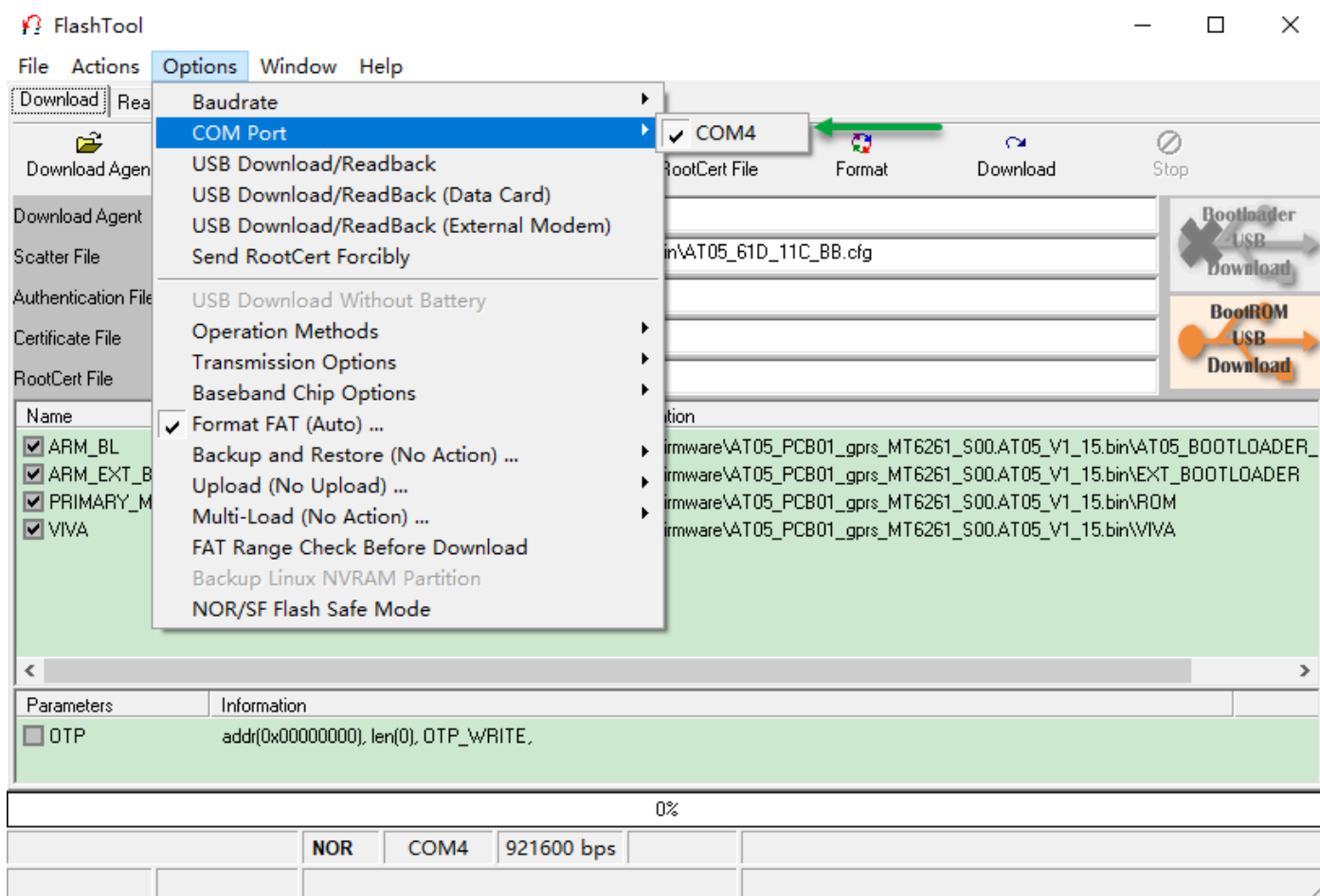
3. COM port number will change in different PC and USB port.)

### 3. Upgrade the device firmware.

1. Select the correct COM port for FlashTool

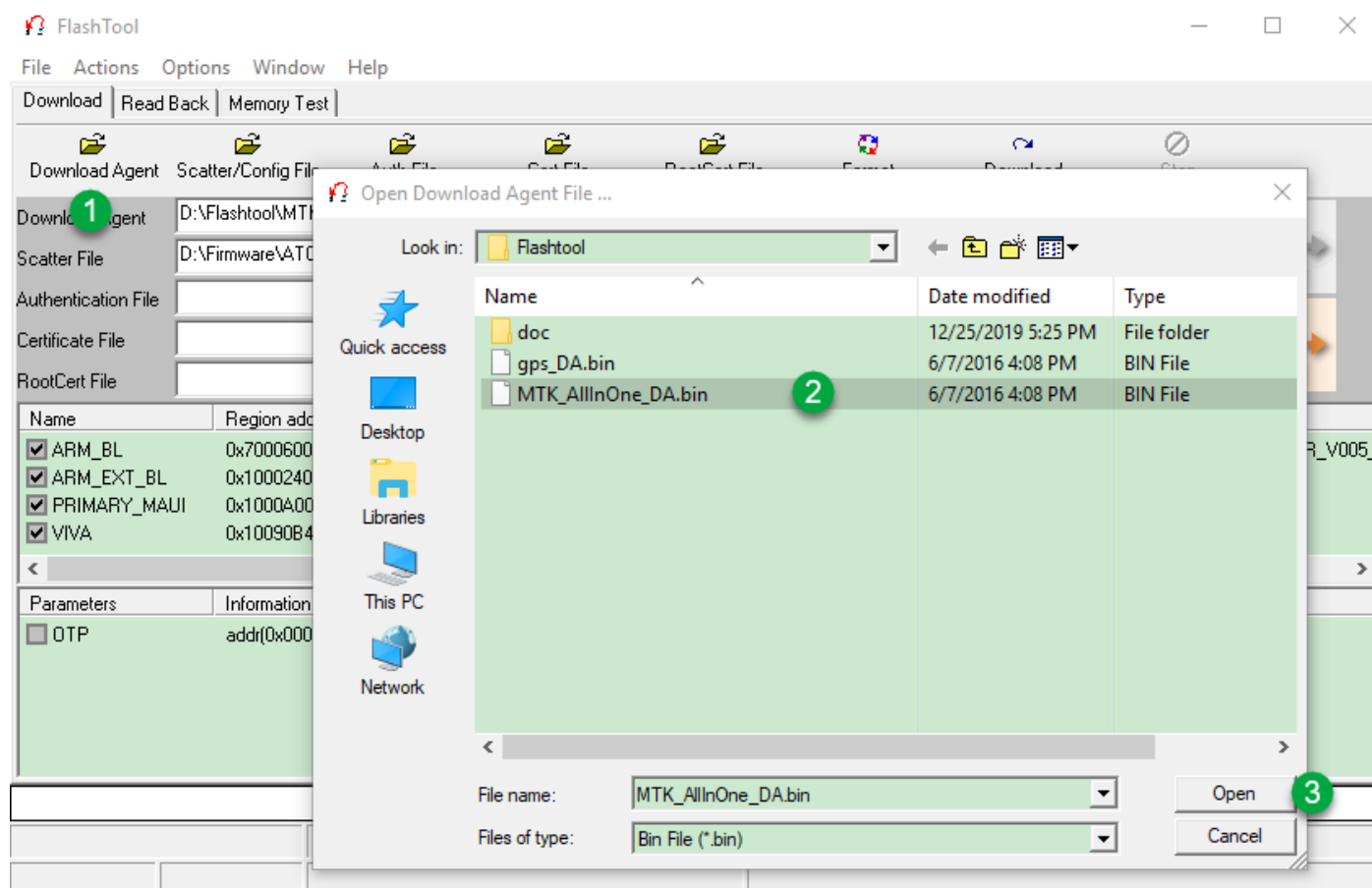
Tool bar 'Options' → COM Port → COM4 (same port as 2.3), Baud rate: 92600bps.

CAUTION: USB-to-serial cable should plug into USB port.



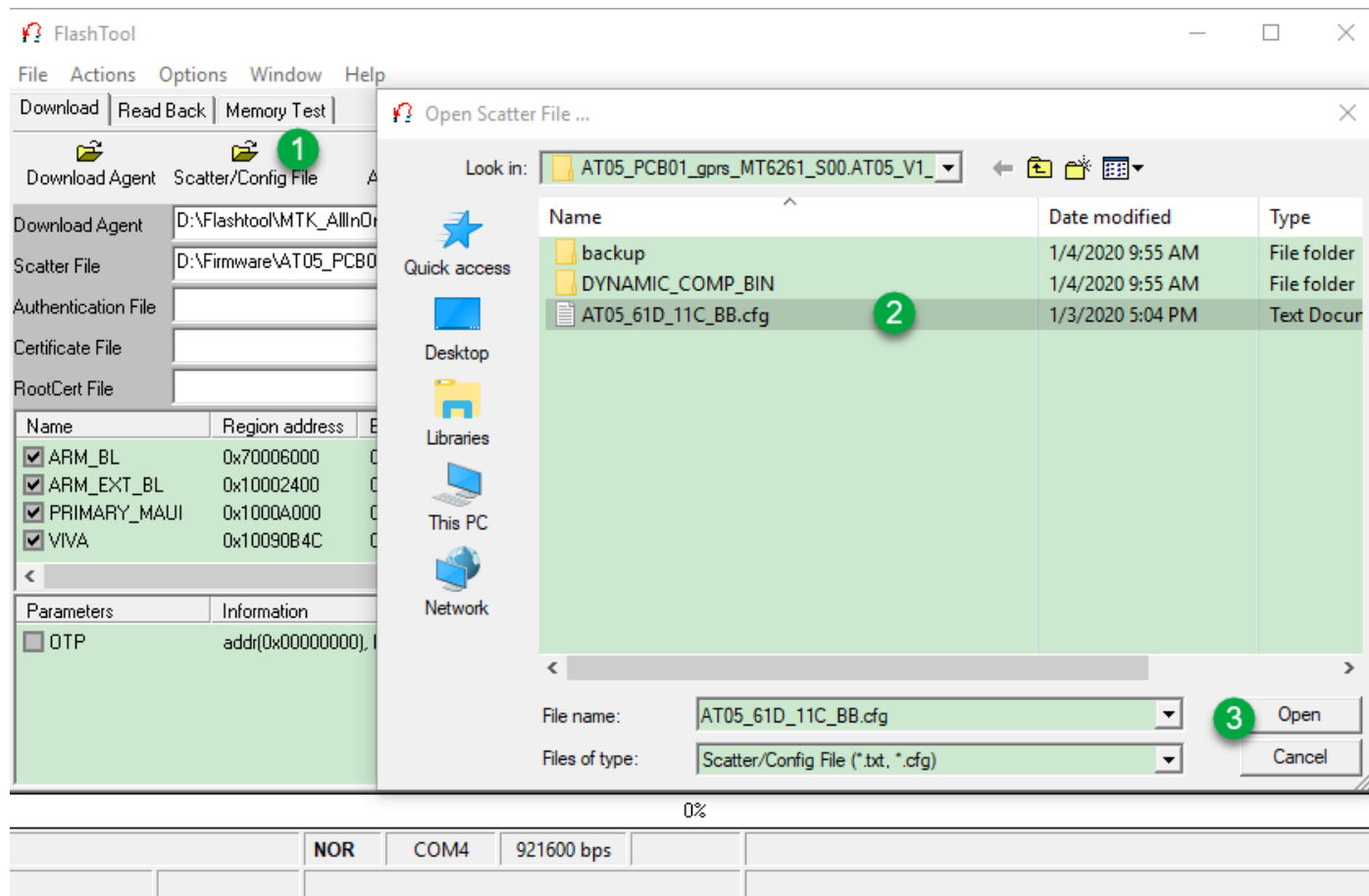
## 2. Load 'Download Agent' file: MTK\_AllInOne\_DA.bin

This file locates under 'FlashTool' folder. This file will load automatically. If it fails, follow below steps to reload this agent file.



## 3. Load 'Config File': AT05\_61D\_11C\_BB.cfg. This file locates under 'FlashTool' folder.

CAUTION: the original firmware is ZIP file. You should unzip the package to browser the config file.



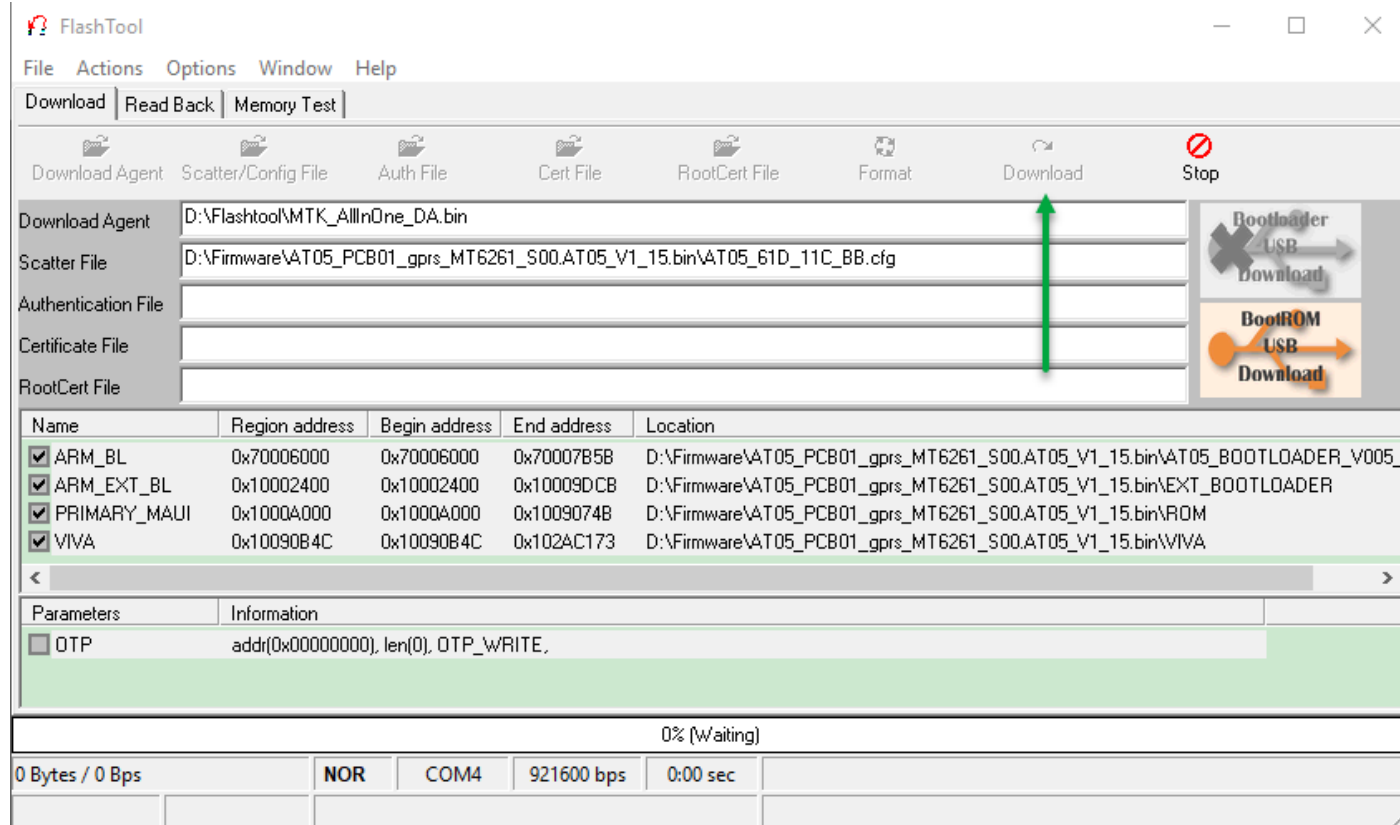
0%

NOR COM4 921600 bps

## 4. Click 'Download'

Tool bar will turn to gray after 'Download' has activated.

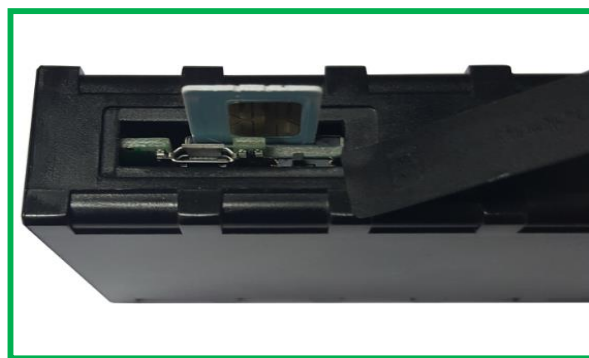
CAUTION: The device is not connected with PC so far.



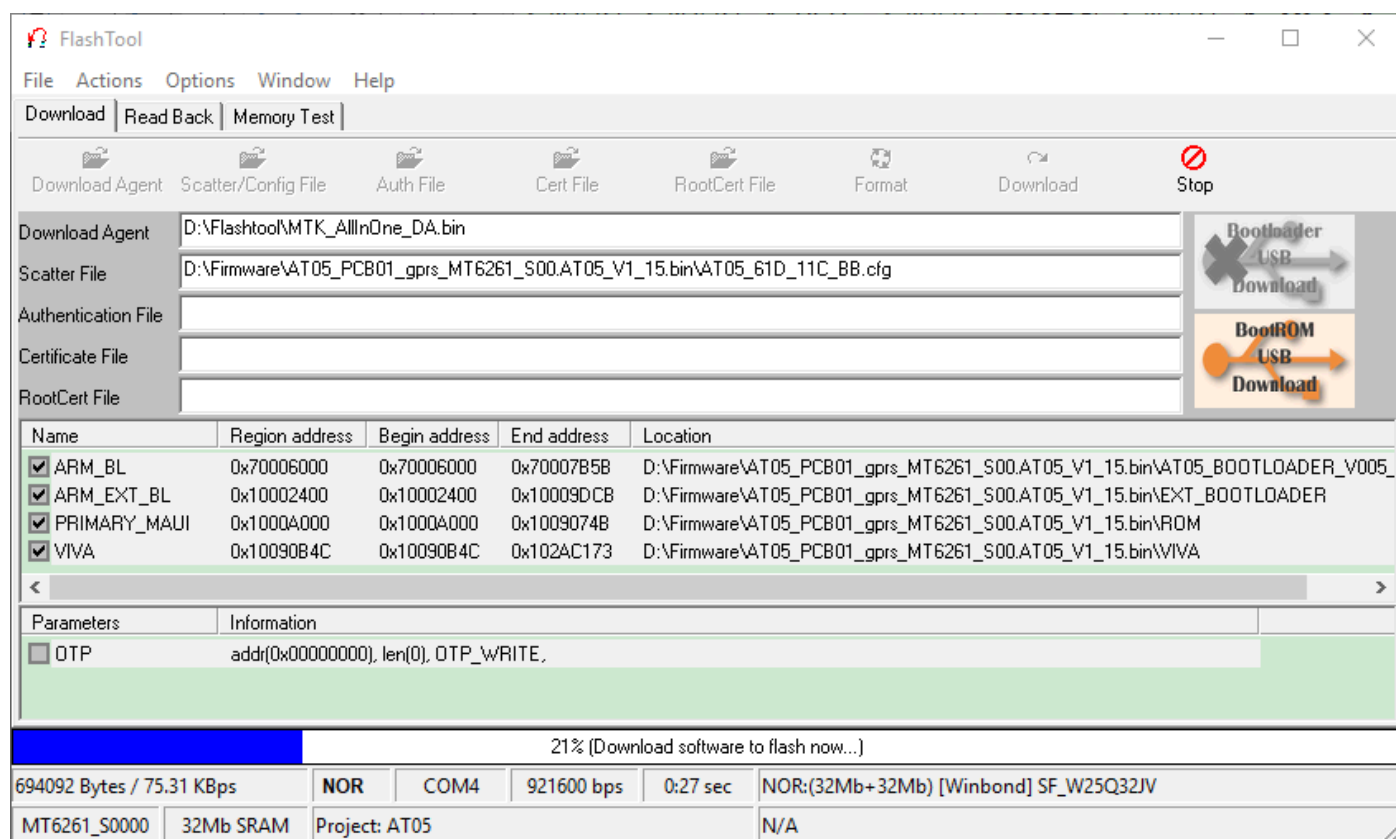
## 5. Connect device with PC.

Make sure device is 'OFF' at first (NO LED light).

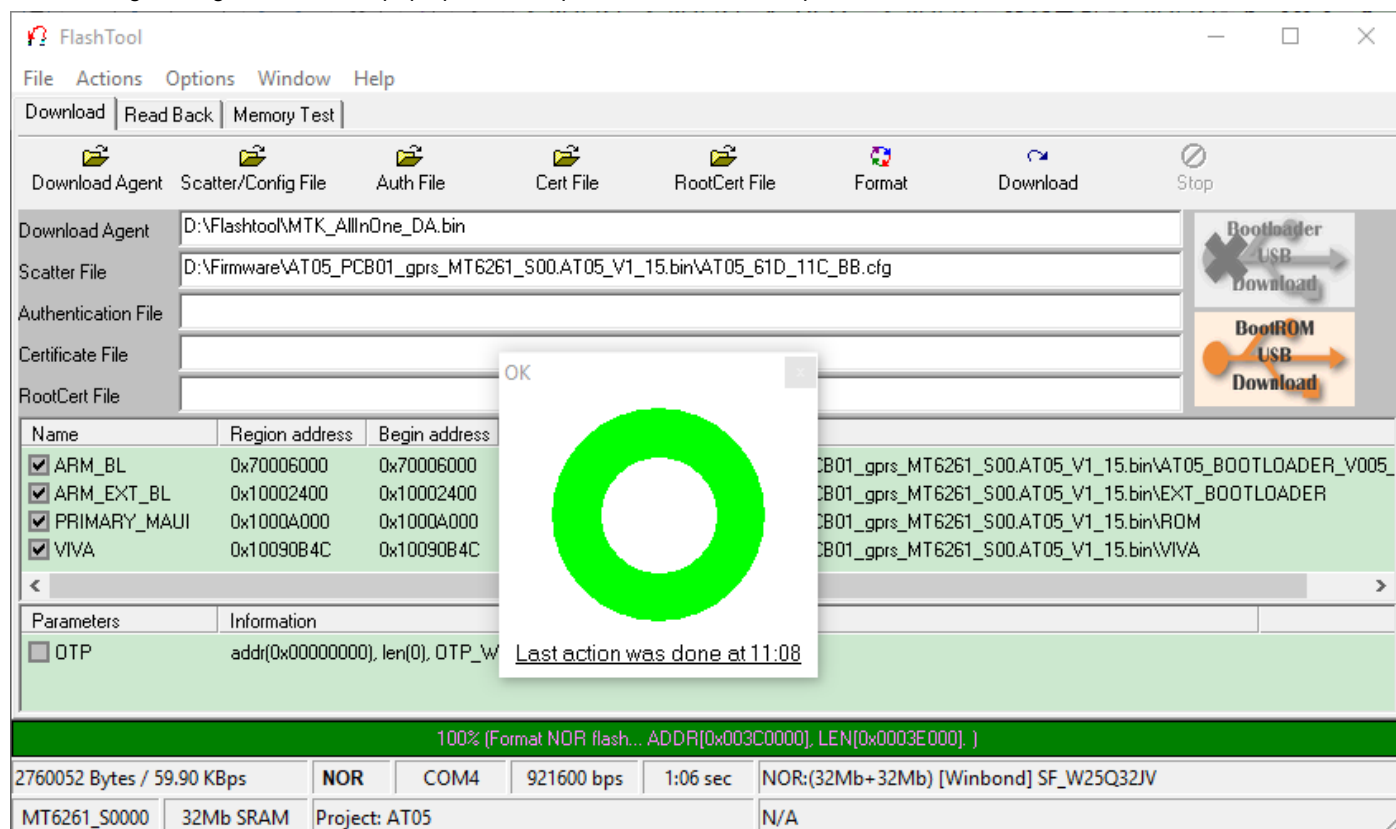
Turn device 'ON' to let Flashtool capture the off/on window to flash firmware.



6. Process bar of flashtool will change and device start to update.



7. Message with green circle will pop up once the process has been completed.



**CAUTION:** After firmware upgradation, device is at 'ON' statues, but LED at this moment is off. No LED is blinking. You should turn the device off to do the next 'Write IMEI' procedure.

#### 4. Write IMEI to the device.

Rewrite the IMEI is required after each firmware upgradation.

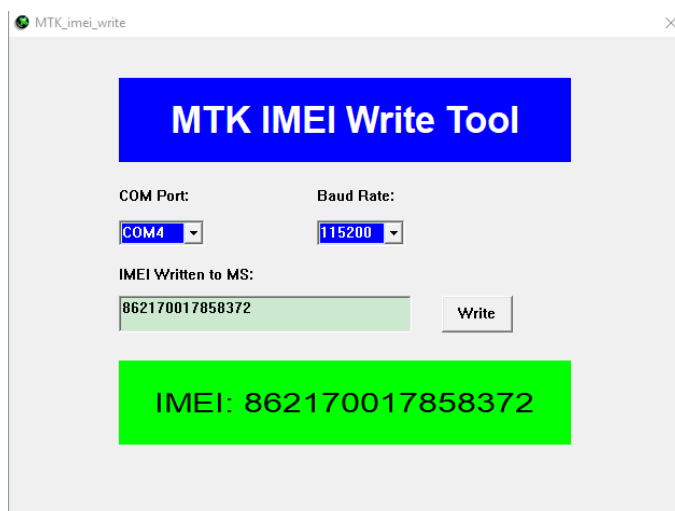
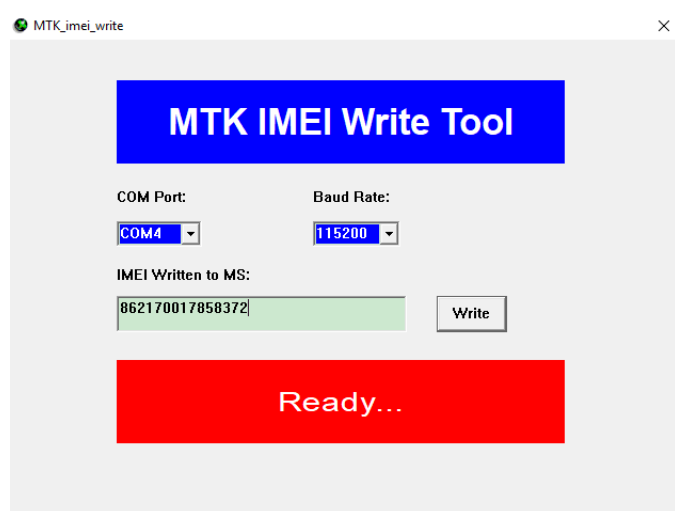
A legal IMEI is very important for AT04/05 device. The communication will be blocked by the carrier if device is using an illegal IMEI. The IMEI can be found on the IMEI sticker at the device body.

CAUTION: the COM port should less than COM4. IMEI writer can't use COM port above COM4.

COM Port: COM3 or COM4.

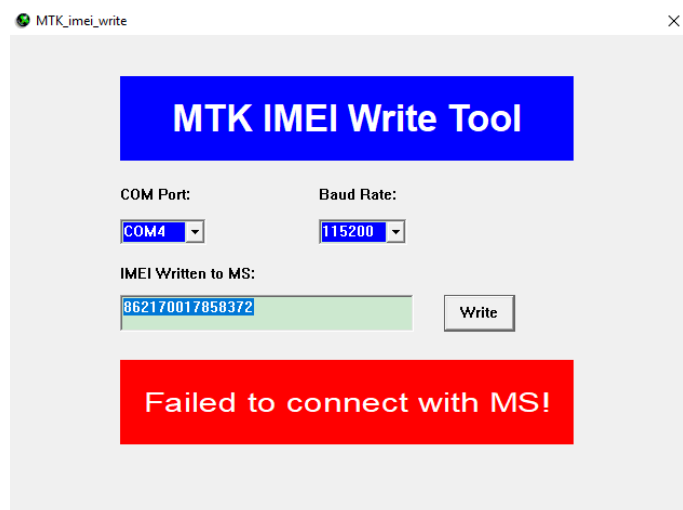
Baud Rate: 115200bps

IMEI: on the IMEI sticker.



1. Turn AT04/05 device **off**.
2. Turn AT04/05 device **on**.
3. Keep monitoring the LED light on the PCB board, if **3 LEDs (red/blue/green)** turn on, press 'Write', the process bar will turn to green with IMEI number.

CAUTION: timing is very import, write when 3 LEDs exactly turn on, or you may get below error message.



If you got above image, please repeat step 1 to step 3.

-----  
**END**  
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