

# QFlash User Guide

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# About the Document

## History

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## Contents

About the Document.....	2
Contents .....	4
Figure Index .....	5
<b>1 Introduction .....</b>	<b>7</b>
1.1. OS and Version .....	7
1.2. Applicable Modules .....	7
1.3. About QFlash Tool .....	8
<b>2 Firmware Upgrade Procedures .....</b>	<b>9</b>
2.1. Configure Serial Port and Baud Rate.....	9
2.1.1. Set COM Port.....	10
2.1.1.1. COM Port Selection for Mxx/GCxx/BCxx Modules .....	10
2.1.1.2. COM Port Selection for UGxx/EC200T .....	11
2.1.1.3. COM Port Selection for UCxx/ECxx/EGxx/Ex06/EM05/AG35/BG96/EM12 .....	11
2.1.1.4. COM Port Selection for SCxx.....	12
2.1.2. Set Baud Rate.....	13
2.2. Load Firmware Files.....	14
2.2.1. Load APP Firmware for OpenCPU or QuecOpen Modules.....	14
2.3. Upgrade Firmware.....	16
2.3.1. Standard Method to Upgrade Firmware.....	16
2.3.2. Command Line Download to Upgrade Firmware (M66&MC60).....	20
2.4. Abnormalities.....	22
2.4.1. Selected a Wrong Serial Port.....	23
2.4.2. Connected to an Occupied Serial Port .....	27
2.4.3. Selected an Unsupported Baud Rate .....	29
2.4.4. Selected an Invalid Load File.....	30
2.4.5. Power Supply is Abnormal .....	33
2.4.6. USB to RS-232 Converter Cable is Abnormal .....	36

## Figure Index

FIGURE 1: ABOUT THE TOOL .....	8
FIGURE 2: MAIN INTERFACE OF QFLASH .....	9
FIGURE 3: SELECT THE CORRECT SERIAL PORT FOR MXX/GCXX/BCXX MODULES .....	10
FIGURE 4: NO NEED TO SELECT COM PORT FOR UGXX/EC200T .....	11
FIGURE 5: SELECT THE USB DM PORT FOR UCXX/ECXX/EGXX/EX06/EM05/AG35/BG96/EM12 .....	12
FIGURE 6: SELECT THE HS-USB DIAGNOSTICS 9091 PORT FOR SCXX .....	12
FIGURE 7: SELECT THE BAUD RATE .....	13
FIGURE 8: SELECT THE FILE TO BE DOWNLOADED .....	14
FIGURE 9: SELECT THE .CFG FILE .....	15
FIGURE 10: SELECT THE MODULE TYPE .....	15
FIGURE 11: CLICK THE START BUTTON .....	16
FIGURE 12: START TO UPGRADE AUTOMATICALLY AFTER CLICKING “START” BUTTON .....	17
FIGURE 13: START TO UPGRADE AFTER MANUALLY RESTARTING MXX/EC200T .....	18
FIGURE 14: START TO UPGRADE AFTER MANUALLY RESTARTING BC95 .....	18
FIGURE 15: SUCCESSFUL FIRMWARE UPGRADE .....	19
FIGURE 16: CHANGE THE MAINCONFING.INI SETTING .....	20
FIGURE 17: ENTER “COM PORT”, “BAUDRATE” AND “FIRMWARE PATH” .....	21
FIGURE 18: RESTART THE MODULE .....	21
FIGURE 19: SUCCESSFUL FIRMWARE UPGRADE .....	22
FIGURE 20: CONNECTED TO A WRONG SERIAL PORT (MXX) .....	23
FIGURE 21: CONNECTED TO A WRONG SERIAL PORT (GCXX) .....	24
FIGURE 22: CONNECTED TO A WRONG SERIAL PORT (UCXX) .....	24
FIGURE 23: CONNECTED TO A WRONG SERIAL PORT (ECXX/EG9X/EX06/EM05/BG96/EM12) .....	25
FIGURE 24: CONNECTED TO A WRONG SERIAL PORT (SCXX) .....	25
FIGURE 25: CONNECTED TO A WRONG SERIAL PORT (AG35) .....	26
FIGURE 26: CONNECTED TO A WRONG SERIAL PORT (BCXX) .....	26
FIGURE 27: CONNECTED TO AN OCCUPIED SERIAL PORT (MXX) .....	27
FIGURE 28: CONNECTED TO AN OCCUPIED SERIAL PORT (GCXX) .....	27
FIGURE 29: CONNECTED TO AN OCCUPIED SERIAL PORT (UCXX/ECXX/EG9X/EX06/SCXX/EM05/AG35/ BG96/EM12) .....	28
FIGURE 30: CONNECTED TO AN OCCUPIED SERIAL PORT (BCXX) .....	28
FIGURE 31: SELECTED AN UNSUPPORTED BAUD RATE (MXX) .....	29
FIGURE 32: SELECTED AN UNSUPPORTED BAUD RATE (GCXX) .....	30
FIGURE 33: SELECTED AN INVALID SCATTER FILE (MXX) .....	30
FIGURE 34: SELECTED AN INVALID LOAD FILE (GCXX) .....	31
FIGURE 35: SELECTED AN INVALID LOAD FILE (UCXX) .....	31
FIGURE 36: SELECTED AN INVALID LOAD FILE (ECXX/EG9X) .....	32
FIGURE 37: SELECTED AN INVALID LOAD FILE (EX06/AG35/BG96/EM12) .....	32
FIGURE 38: SELECTED AN INVALID LOAD FILE (EM05) .....	33
FIGURE 39: ABNORMAL POWER SUPPLY (MXX) .....	33
FIGURE 40: ABNORMAL POWER SUPPLY (GCXX) .....	34
FIGURE 41: ABNORMAL POWER SUPPLY (UCXX/ECXX/EG9X/EX06/EM05/AG35/BG96/EM12) .....	34

FIGURE 42: ABNORMAL POWER SUPPLY (UGXX) .....	35
FIGURE 43: ABNORMAL POWER SUPPLY (SCXX) .....	35
FIGURE 44: ABNORMAL POWER SUPPLY (BCXX) .....	36
FIGURE 45: ABNORMAL USB TO RS-232 CONVERTER CABLE .....	36

# 1 Introduction

## 1.1. OS and Version

This document mainly introduces how to upgrade the firmware with “QFlash” upgrade tool offered by Quectel. The tool can run on a PC without installation if the OS is among the ones listed below:

- Windows 7
- Windows 8
- Windows 10

Any newer version of the tool will be informed and provided in advance.

### NOTES

1. In Windows 10, please start *QFlash.exe* by right-clicking the icon and selecting “**Run as administrator**”.
2. The paths where the tool and firmware are stored should NOT contain any space, and English characters are preferred.

## 1.2. Applicable Modules

QFlash is applicable to the following Quectel modules.

**Table 1: Applicable Modules**

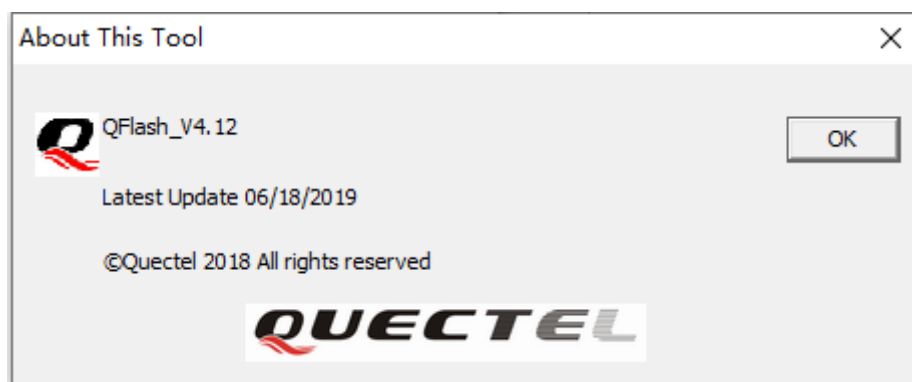
LPWA Module Series	BCxx: includes BC95/ BC95-G/ BC68/ BC66 modules
	BG96 module
LTE Standard Module Series	ECxx: includes EC20/ EC20 R2.0/ EC20 R2.1/ EC25/ EC21/ EC200T modules
	EG9x: includes EG91/ EG95 modules



	EM05 module
<b>LTE-A Module Series</b>	Ex06: includes EP06/ EG06/ EM06 modules
	EM12 module
<b>Automotive Module Series</b>	AG35 module
<b>Smart Module Series</b>	SCxx: includes SC20/ SC60 modules
<b>WCDMA Module Series</b>	UCxx: includes UC15/ UC20 modules
	UGxx: includes UG95/ UG96 modules
<b>GSM/GPRS/GNSS Module Series</b>	Mxx: includes M10/ M66/ M72/ M80/ M85/ M95/ M65/ MC65/ MC60 modules
	GCxx: GC10 module

### 1.3. About QFlash Tool

The QFlash tool developed by Quectel is shown as below.



**Figure 1: About the Tool**

## 2 Firmware Upgrade Procedures

The firmware can be upgraded through the following three steps by the QFlash tool.

**Step 1:** Set serial port and baud rate.

**Step 2:** Load firmware files.

**Step 3:** Upgrade the firmware.

The following describes the details of how to use the tool to upgrade firmware.

### 2.1. Configure Serial Port and Baud Rate

After the QFlash tool is started, the main interface is shown as below.

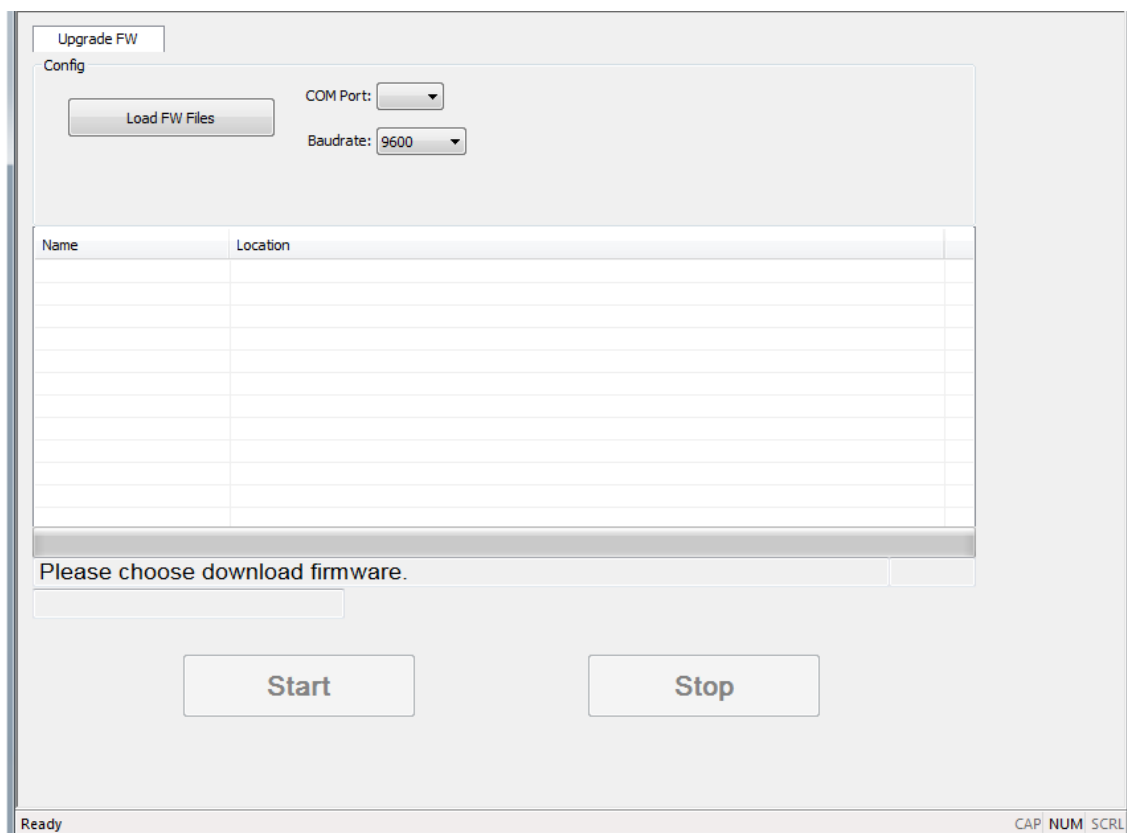


Figure 2: Main Interface of QFlash

## 2.1.1. Set COM Port

### 2.1.1.1. COM Port Selection for Mxx/GCxx/BCxx Modules

Click “**COM Port**” dropdown list to select the COM port through which the firmware will be upgraded. As shown in the following figure.

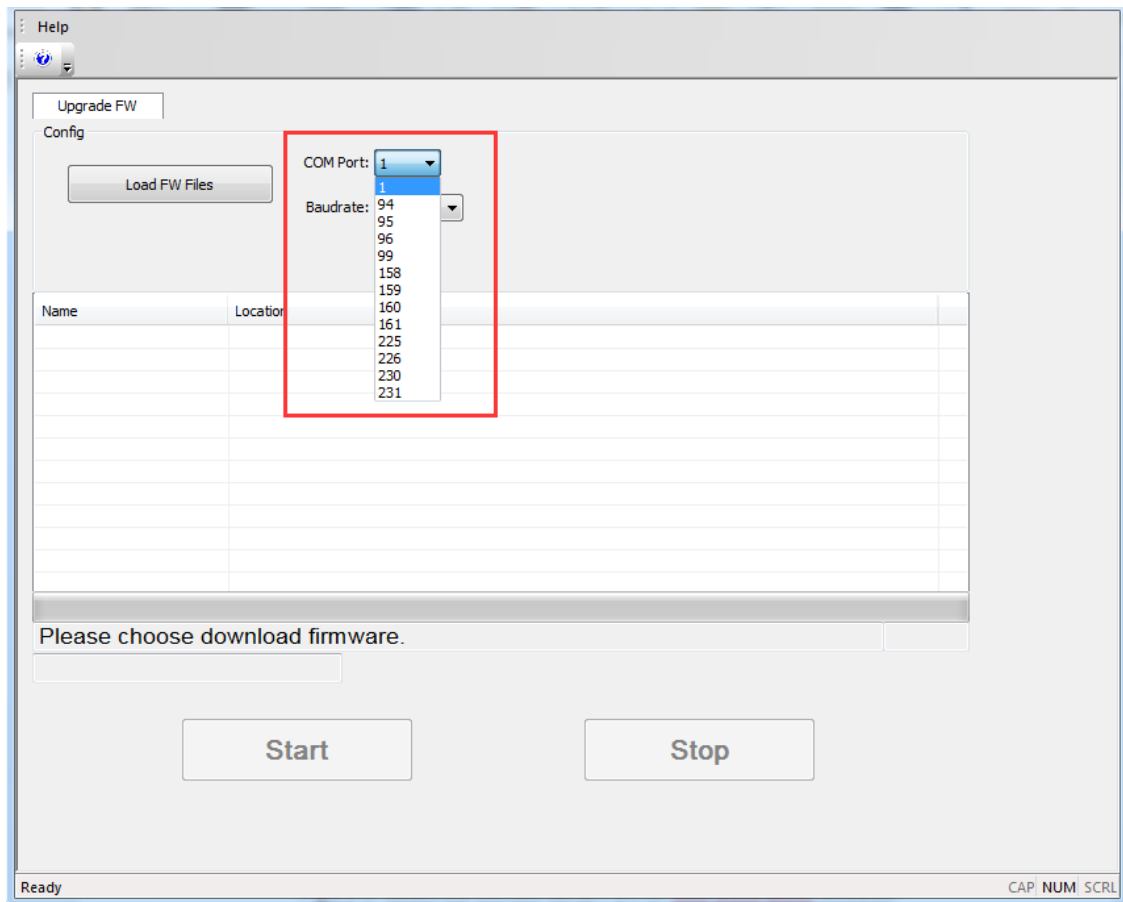


Figure 3: Select the Correct Serial Port for Mxx/GCxx/BCxx Modules

#### NOTES

1. For Mxx modules (except M65 and MC65), it is the main UART to be used for firmware upgrade. After the port is selected, please manually restart the module.
2. For M65 and MC65 modules, it is the USB port to be used for firmware upgrade, and the module will be automatically restarted after clicking “**Start**” button.
3. For GCxx modules, it is the USB port to be used for firmware upgrade, and then the module will be automatically restarted after clicking “**Start**” button.
4. For BC95 module, it is the main UART to be used for firmware upgrade. After the port is selected, please click the “**Start**” button and wait for the prompt “**Module Reset By Hand**”, and then manually

restart the module.

5. For BC66 module, it is the USB UART Ch A to be used for firmware upgrade. After the port is selected, please click the **“Start”** button and wait for the prompt **“[INFO]Start connect with target,Please reset DUT...”**, and then manually restart the module.
6. For BC95-G and BC68 modules, it is the USB UART Ch A to be used for firmware upgrade. After the port is selected, please click the **“Start”** button and wait for the prompt **“reset”**, and then manually restart the module.

#### 2.1.1.2. COM Port Selection for UGxx/EC200T

For UGxx/EC200T, it is the USB port to be used for firmware upgrade, and it can be selected automatically. When firmware files are uploaded, “USB” will be displayed in gray in **“COM Port”** dropdown list. The module needs to be turned off before clicking **“Start”**. After clicking **“Start”**, please turn on the module within 10 seconds. The interface is shown in the following figure.

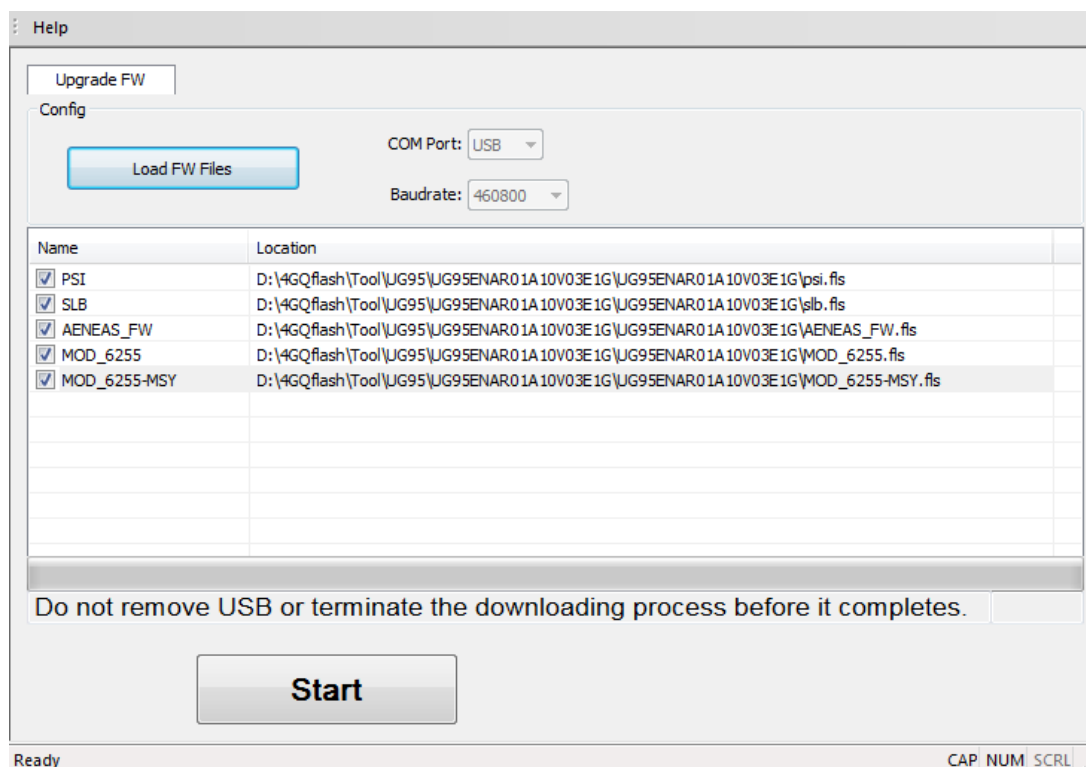


Figure 4: No Need to Select COM Port for UGxx/EC200T

#### 2.1.1.3. COM Port Selection for UCxx/ECxx/EGxx/Ex06/EM05/AG35/BG96/EM12

For UCxx/ECxx/EGxx/Ex06/EM05/AG35/BG96/EM12, the USB DM port can be used for firmware upgrade. Click **“COM Port”** dropdown list and select the USB DM port for upgrade, as shown in the

following figure.

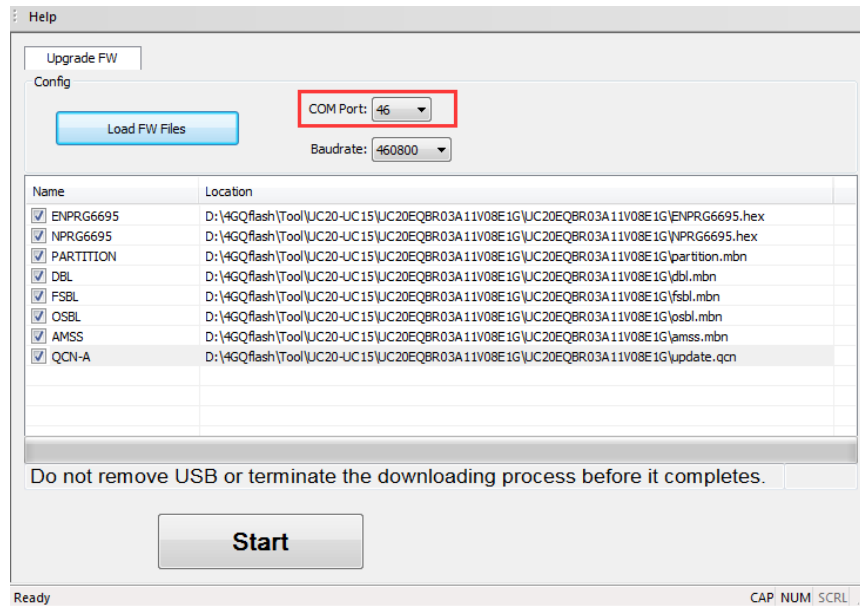


Figure 5: Select the USB DM Port for UCxx/ECxx/EGxx/Ex06/EM05/AG35/BG96/EM12

#### 2.1.1.4. COM Port Selection for SCxx

For SCxx, the HS-USB Diagnostics 9091 port can be used for firmware upgrade. Click “**COM Port**” dropdown list and select the HS-USB Diagnostics 9091 port for upgrade, as shown in the following figure.

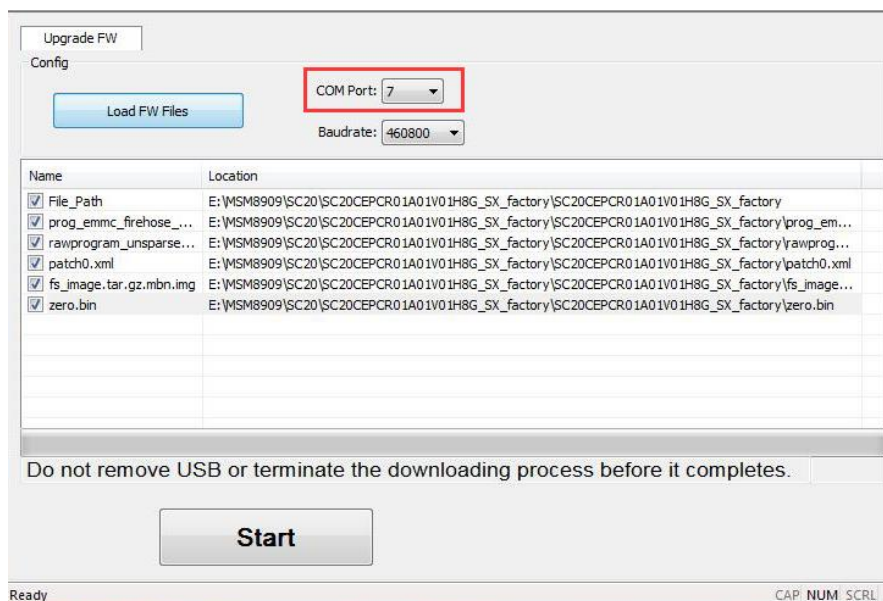
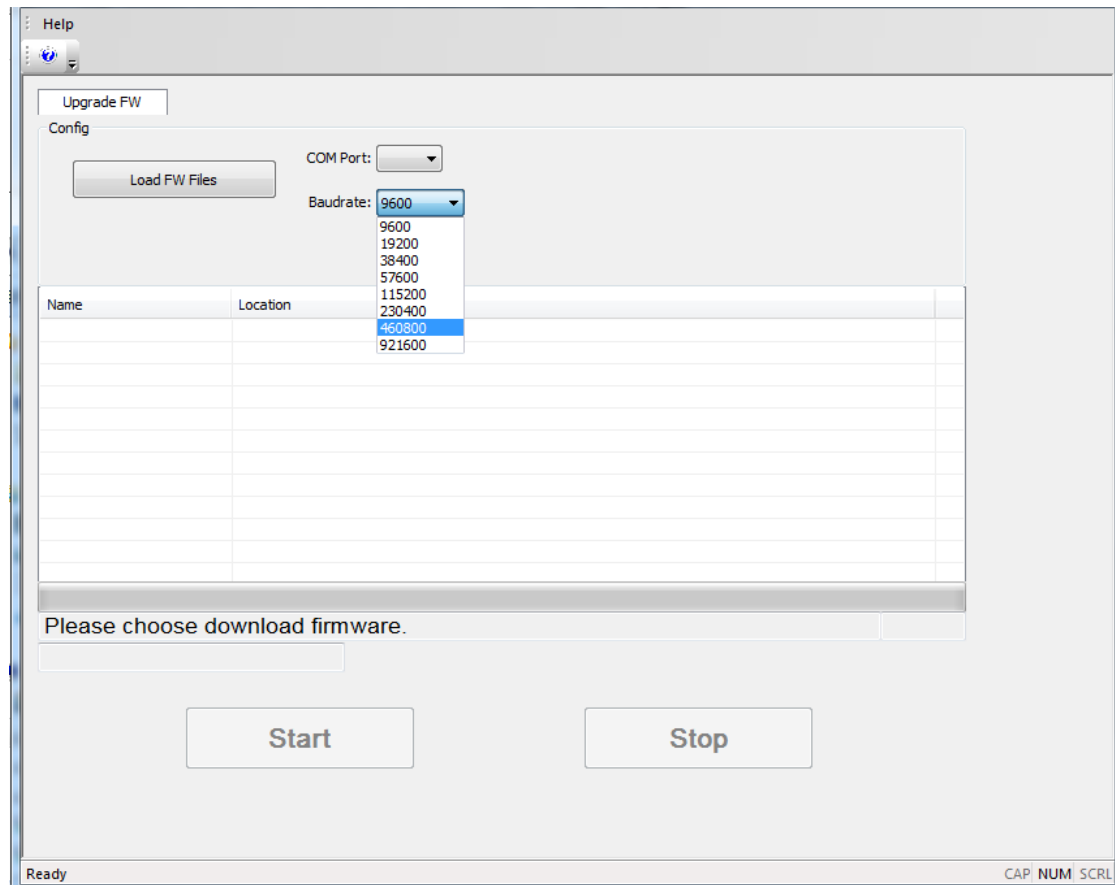


Figure 6: Select the HS-USB Diagnostics 9091 Port for SCxx

### 2.1.2. Set Baud Rate

Click the “**Baudrate**” dropdown list and select an appropriate baud rate. It is recommended to select 921600 for GCxx modules, 9600 for BCxx modules and 460800 for other Quectel modules, as shown in the following figure.



**Figure 7: Select the Baud Rate**

#### NOTES

1. Baud rates have many different values, and it is the hardware environment that determines whether a specified baud rate can be supported. If not supported, an error message will be returned.
2. Please set baud rate into 921600 when upgrading firmware for GCxx modules. Other baud rates may lead to an upgrading failure.
3. When upgrading firmware for BCxx modules, the baud rate is 9600 by default.
4. Baud rate setting is unnecessary for USB virtual ports.

## 2.2. Load Firmware Files

**Step 1:** Click the button “Load FW Files”.

**Step 2:** Select the *.txt*, *.cfg*, *.mbn*, *.lod*, *.fls*, *.fwpkg* or *.zip* file which needs to be downloaded to the module.

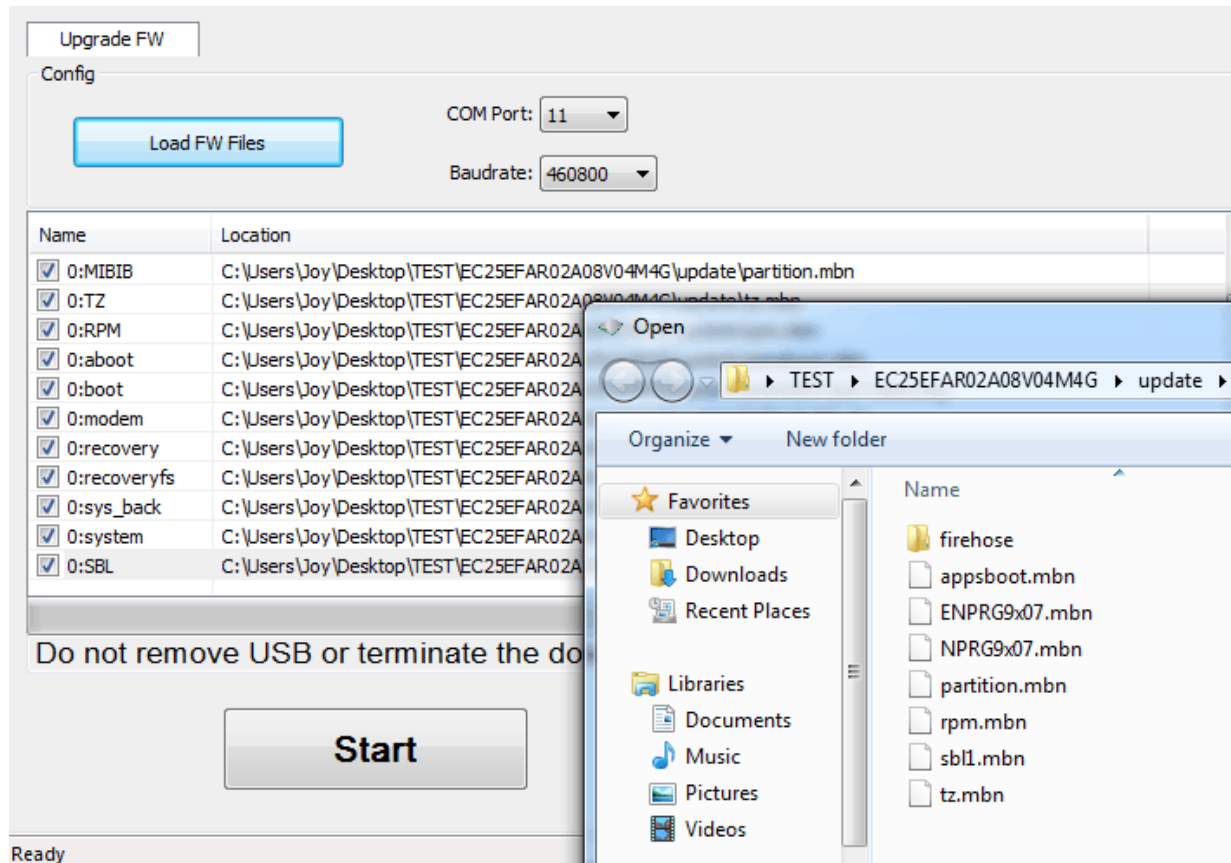


Figure 8: Select the File to be Downloaded

### NOTE

The path where the firmware is stored should NOT contain any spaces, and English characters are preferred.

### 2.2.1. Load APP Firmware for OpenCPU or QuecOpen Modules

This step is only necessary for Quectel OpenCPU or QuecOpen modules.

**Step 1:** Click the button “Load FW Files”, and select the *.cfg* file which needs to be downloaded to the module.

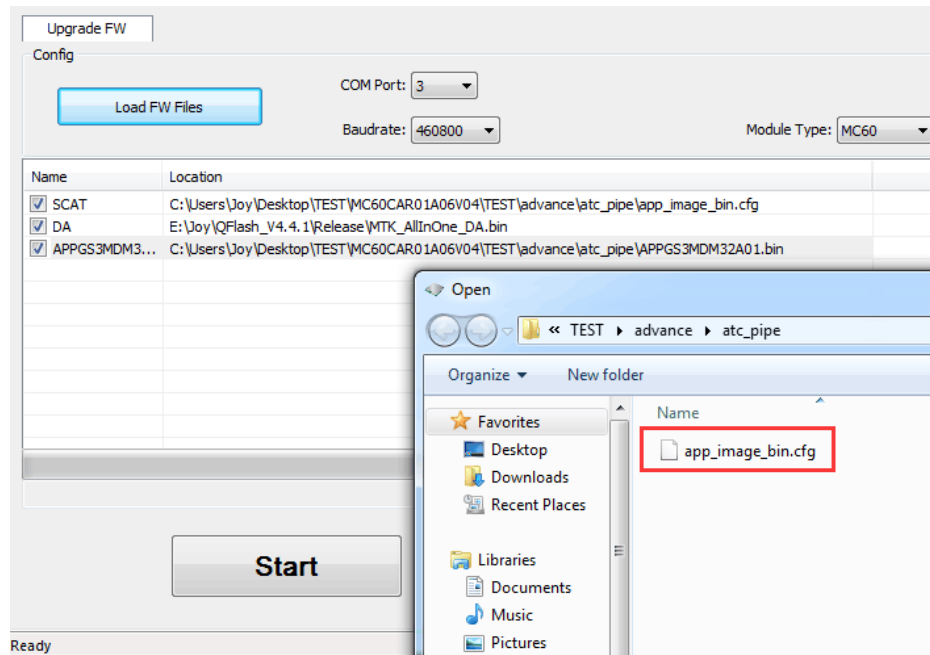


Figure 9: Select the .cfg File

**NOTE**

The path where the firmware is stored should NOT contain any spaces, and English characters are preferred.

**Step 2:** Click the “**Module Type**” dropdown list and choose an appropriate module type.

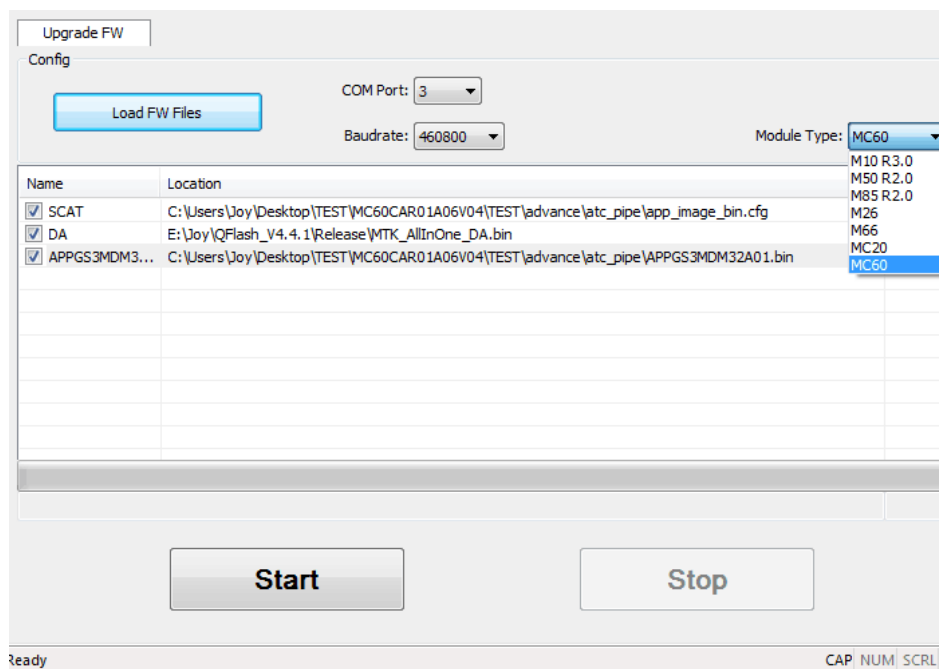


Figure 10: Select the Module Type



## 2.3. Upgrade Firmware

### 2.3.1. Standard Method to Upgrade Firmware

**Step 1:** Click the “Start” button.

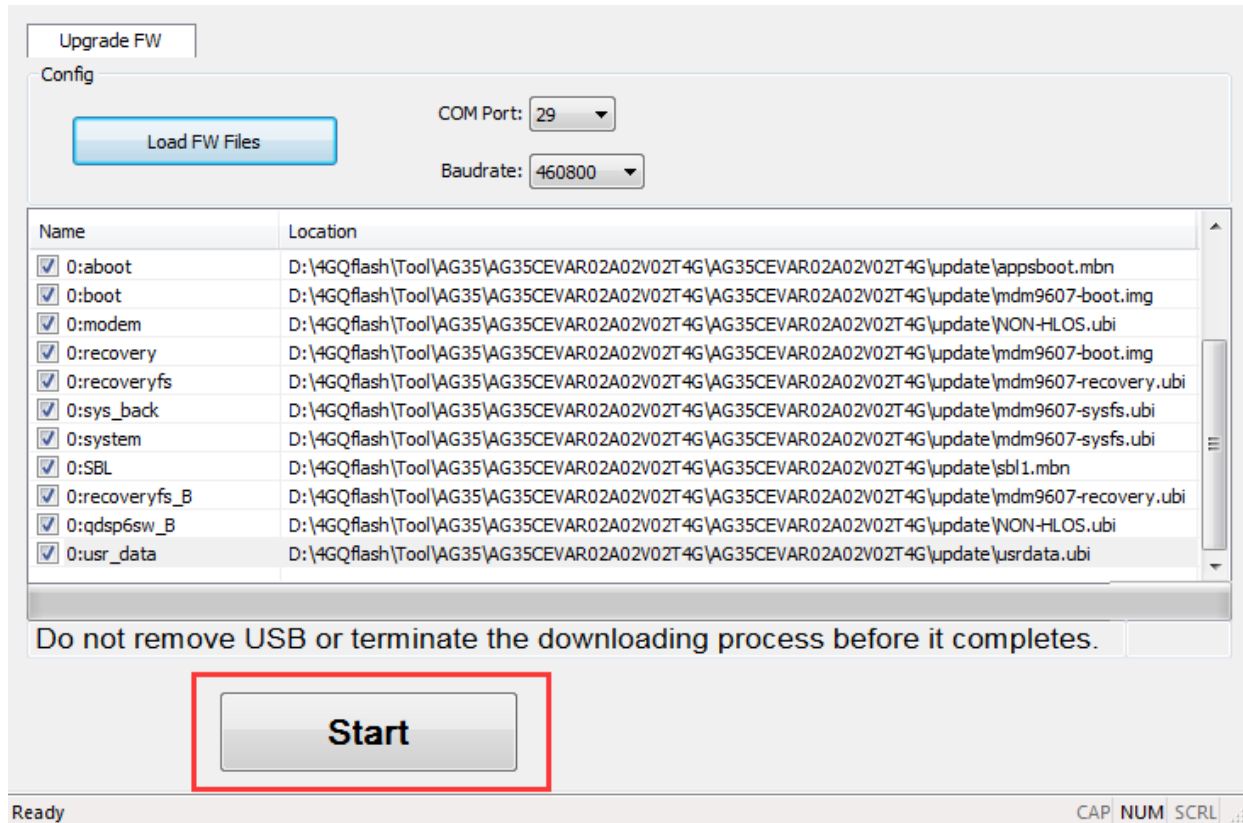


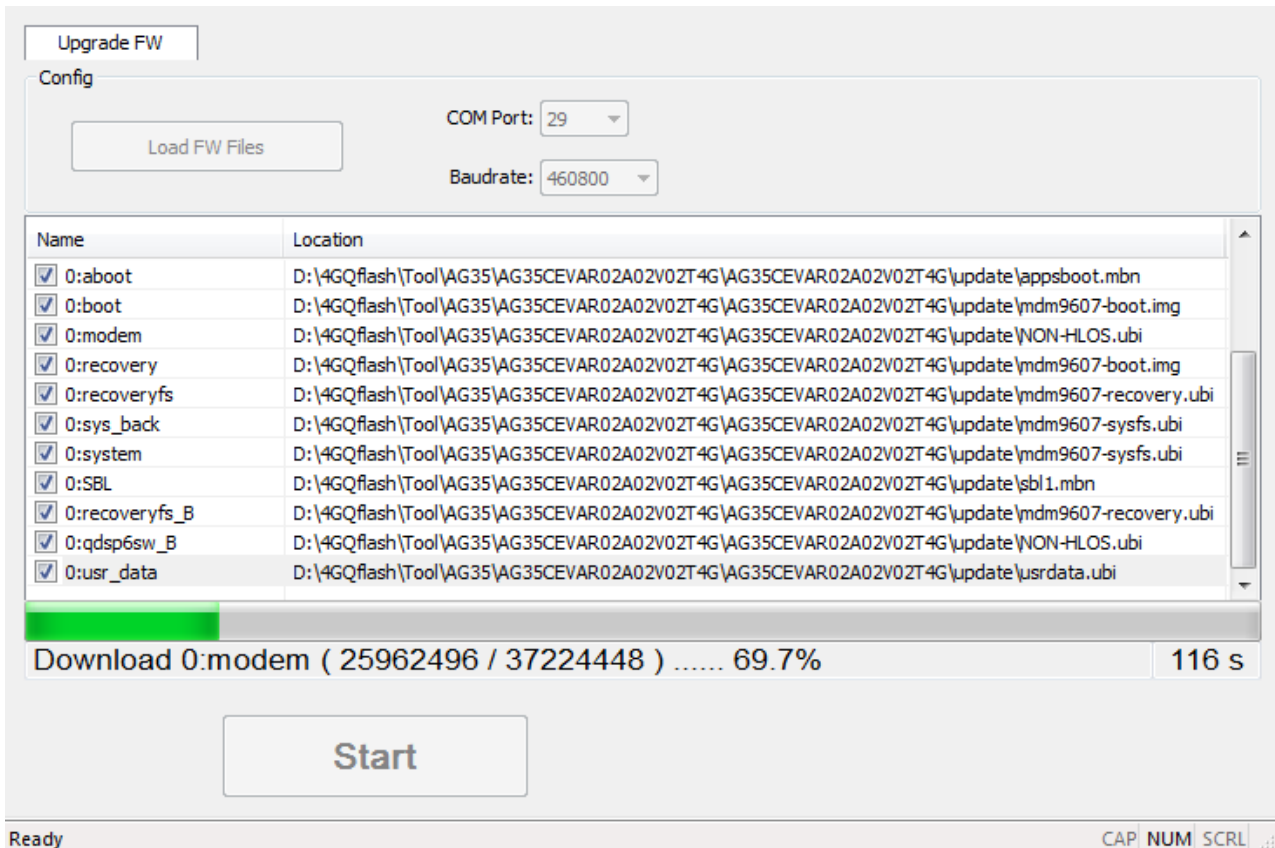
Figure 11: Click the Start Button

#### NOTES

1. Please note that there is no “Stop” button while upgrading firmware for GCxx/UCxx/UGxx/ECxx/EG9x/Ex06/SCxx/BCxx/EM05/AG35/BG96/EM12, as shown above. In such a case, it is NOT permitted to stop the upgrading process, and please do NOT remove USB or terminate the downloading process before upgrading is completed.
2. For ECxx modules, if the firmware contains a Firehose folder, then it will be downloaded in Firehose mode by default.

**Step 2:** Restart the module to enable automatic firmware upgrading.

- (1) For GCxx/UCxx/UGxx/ECxx/EG9x/Ex06/SCxx/EM05/AG35/BG96/EM12/M65/MC65 modules, the module will be restarted automatically after clicking the **“Start”** button, so there is no need to restart the module manually. Please refer to the following figure.



**Figure 12: Start to Upgrade Automatically After Clicking “Start” Button**

**NOTE**

For GCxx/UCxx/UGxx/ECxx/EG9x/Ex06/SCxx/EM05/AG35/BG96/EM12/M65/MC65, if there is no EVB for module firmware upgrading, please drive the PWRKEY pin to low level after clicking the **“Start”** button in 30 seconds.

- (2) For Mxx/BC95/EC200T modules (except M65 and MC65), switch the D/L to **“ON”** on EVB within 30 seconds after clicking **“Start”** button, and then manually restart the module. It will start to upgrade the firmware as shown in the following figures.

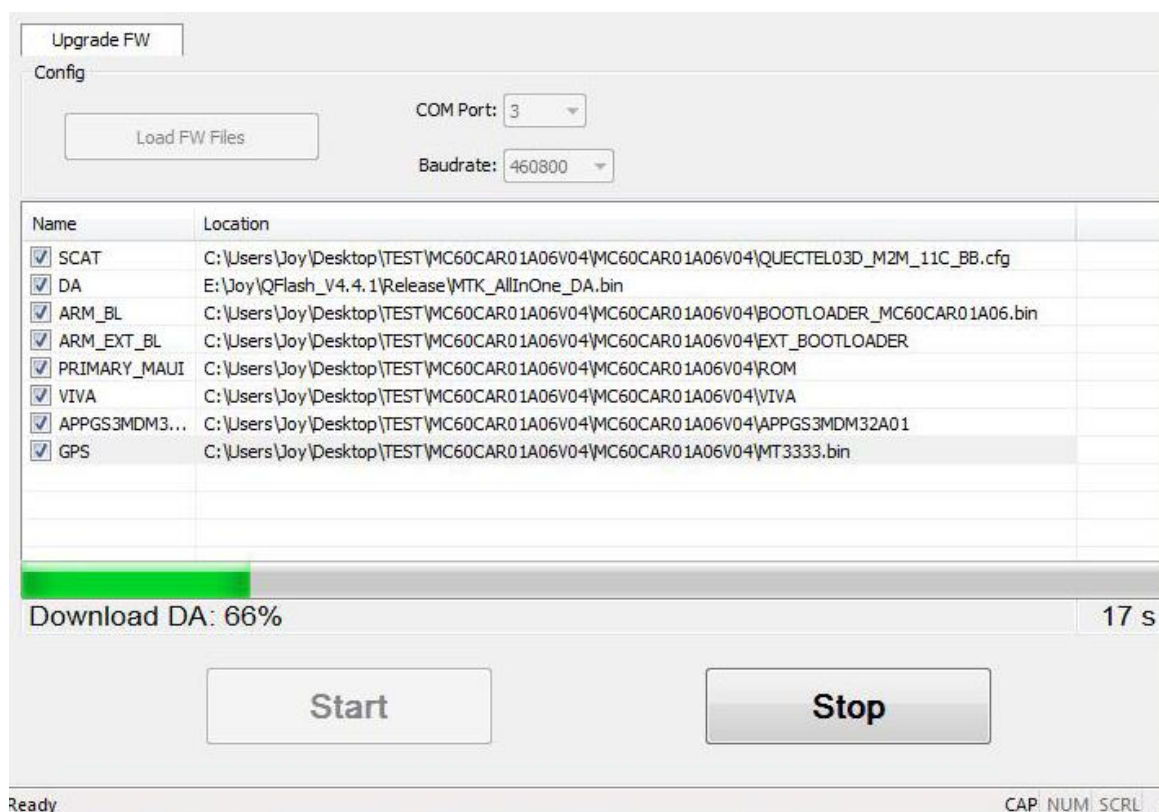


Figure 13: Start to Upgrade after Manually Restarting Mxx/EC200T

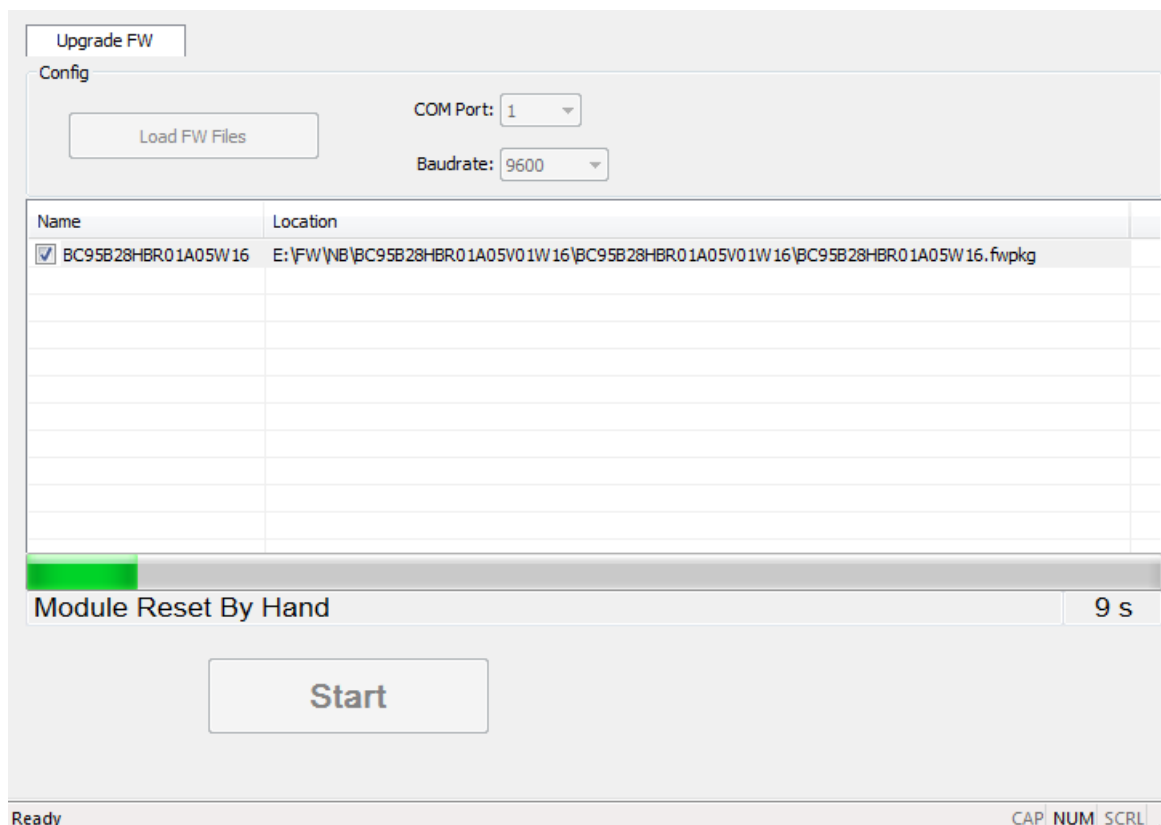


Figure 14: Start to Upgrade after Manually Restarting BC95

## NOTES

1. On Mxx and EC200T modules, please make sure the EVB is powered by 5V power supply when switching the D/L to “ON”, and then manually restart the module.
2. On BC95 module, please make sure the EVB is powered by 5V power supply when switching the D/L to “ON”, and click the “**Start**” button and wait for the prompt “**Module Reset By Hand**”, then manually restart the module.
3. For M65 and MC65 modules, after clicking “**Start**”, the module will be automatically restarted.

(3) For firmware upgrading of BC95-G, BC68 and BC66 modules through TE-B, please wait for the prompt “**reset**” (for BC95-G and BC68) or “[**INFO**]**Start connect with target,Please reset DUT...**” (for BC66) after clicking the “**Start**” button, and then manually restart the modules.

The log will be printed in the path *QFlash\_V4.12\Release\WB-IOT\1* when BC95-G module is upgraded.

**Step 3: “PASS”** will be shown on the interface after the firmware has been successfully upgraded, as shown in the following figure.

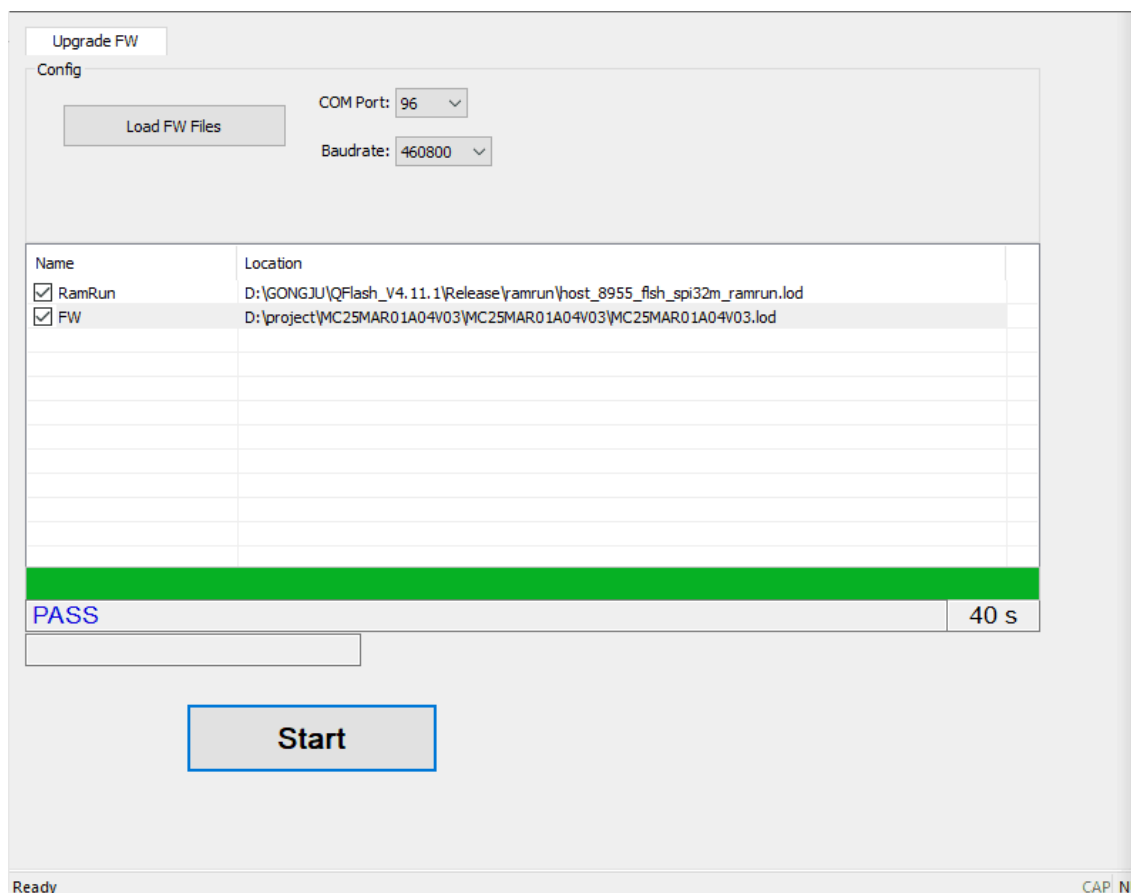


Figure 15: Successful Firmware Upgrade

### 2.3.2. Command Line Download to Upgrade Firmware (M66&MC60)

For M66 and MC60 modules, in addition to the firmware upgrade method described in **Chapter 2.3.1**, the command line download method is also supported to upgrade the firmware. The procedures are as follows:

**Step 1:** Enter the file *Release* in the tool package, open the file *MainConfig.ini*, change “QFLASH\_CMD=0” to “QFLASH\_CMD=1” and save the setting.

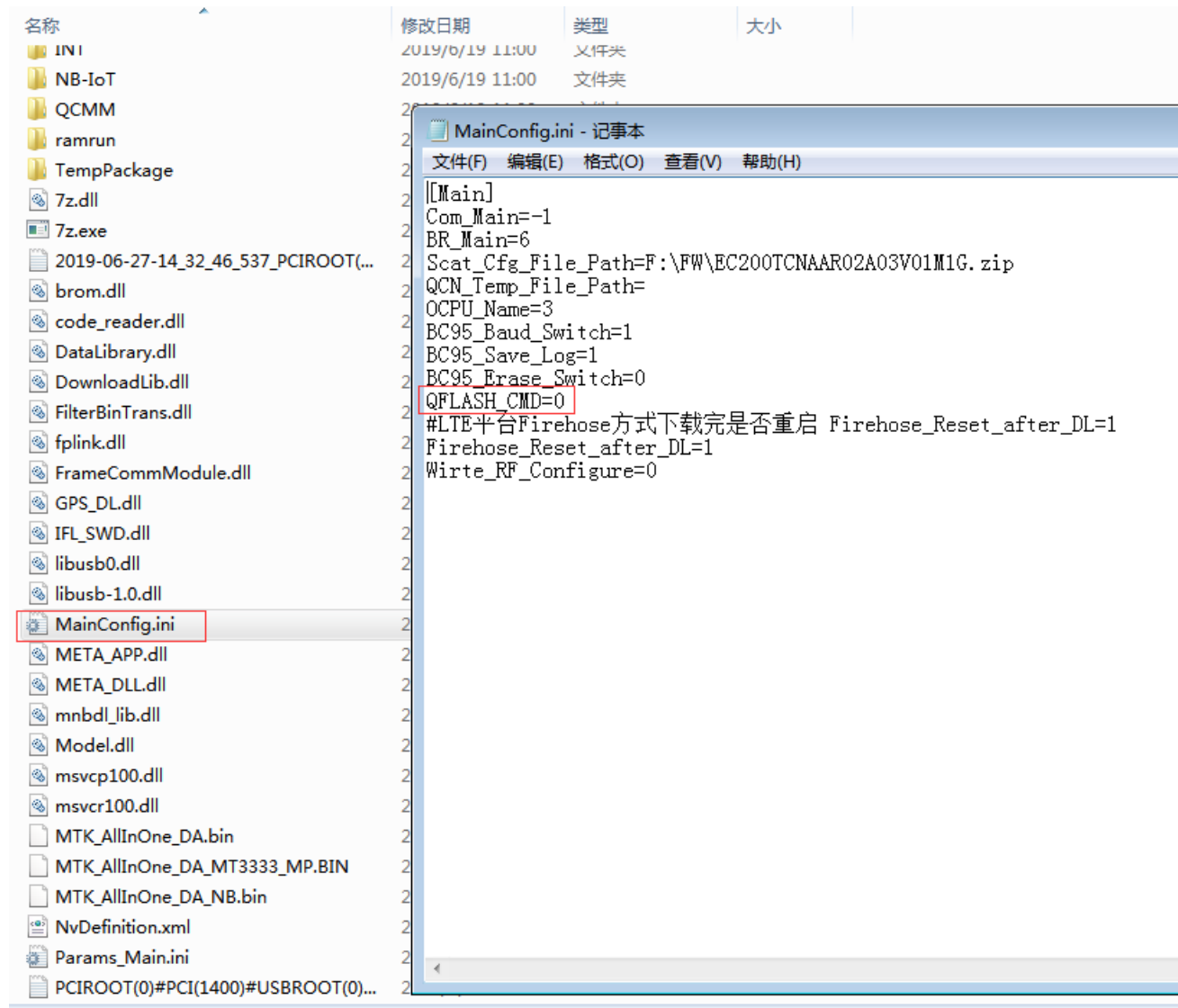
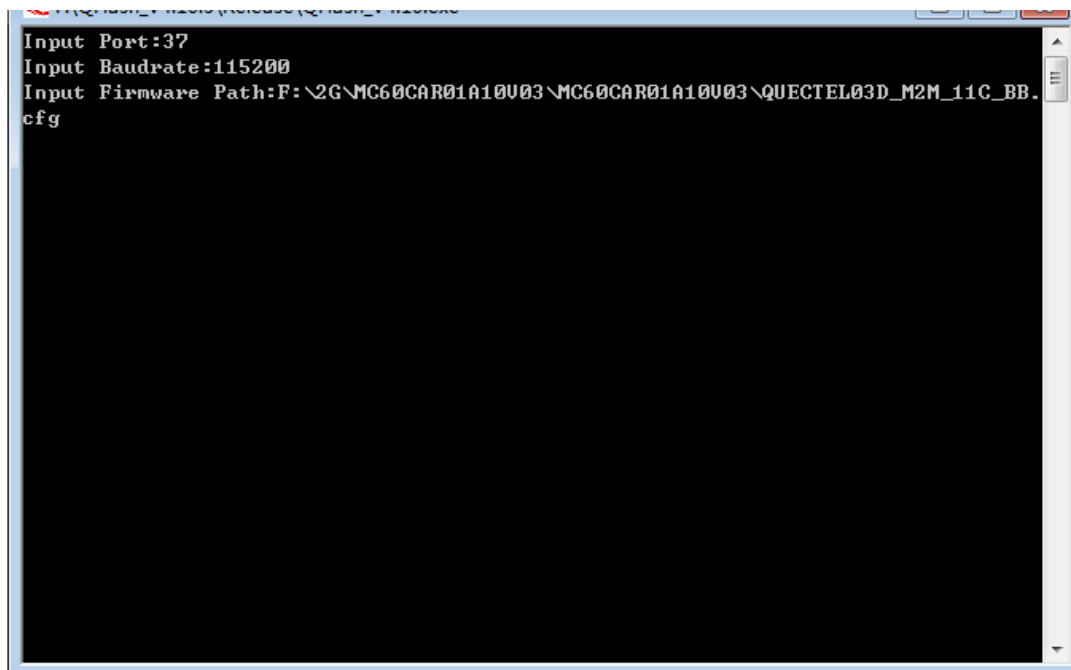


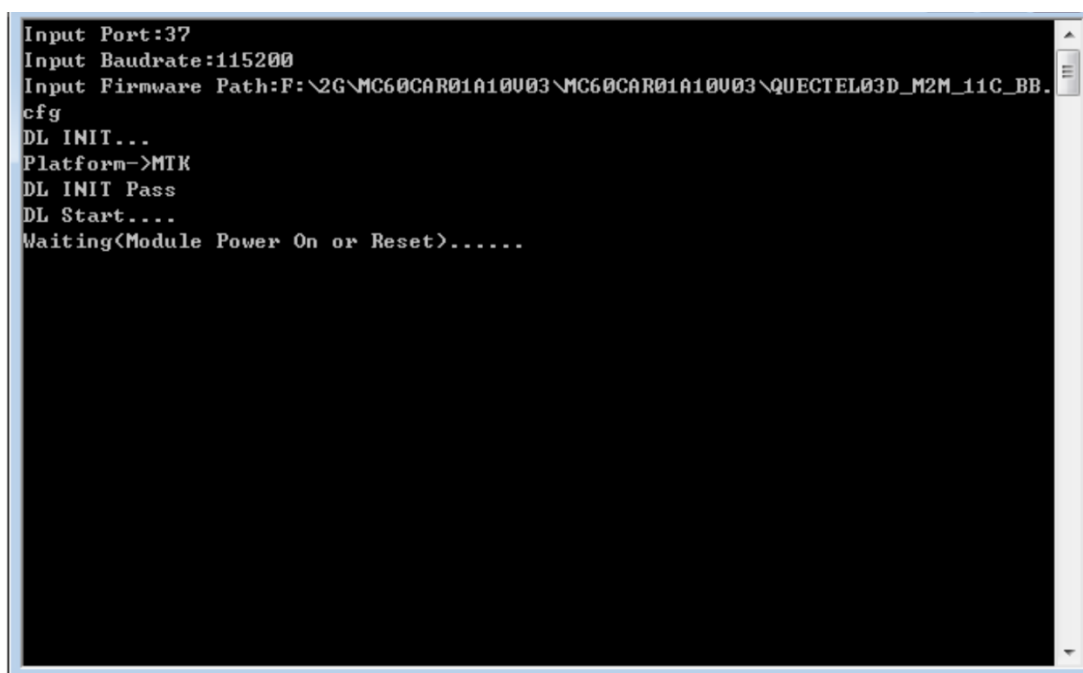
Figure 16: Change the MainConfig.ini Setting

**Step 2:** Open the file *QFlash\_V4.12* in *Release* folder, enter “Port: 37”, “Baudrate: 115200”, and the “Firmware Path: ...”, as manifested in the figure below.



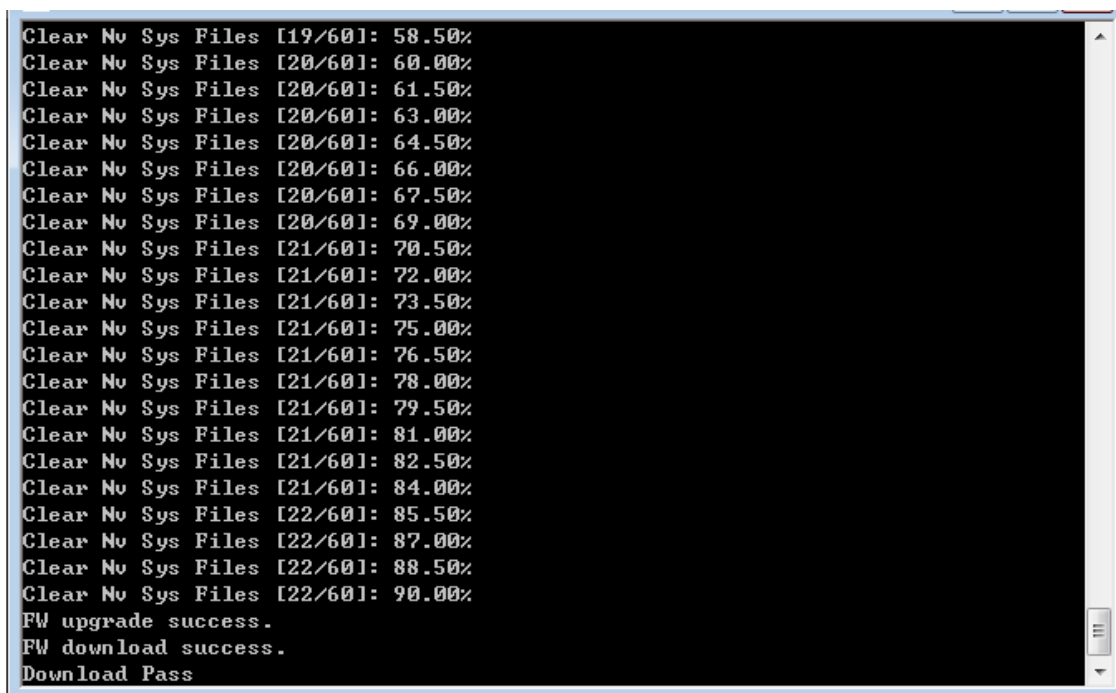
**Figure 17: Enter “COM Port”, “Baudrate” and “Firmware Path”**

**Step 3:** Restart the module when prompted as shown in the following figure.



**Figure 18: Restart the Module**

**Step 4:** Firmware is upgraded successfully.



```
Clear Nv Sys Files [19/601]: 58.50%
Clear Nv Sys Files [20/601]: 60.00%
Clear Nv Sys Files [20/601]: 61.50%
Clear Nv Sys Files [20/601]: 63.00%
Clear Nv Sys Files [20/601]: 64.50%
Clear Nv Sys Files [20/601]: 66.00%
Clear Nv Sys Files [20/601]: 67.50%
Clear Nv Sys Files [20/601]: 69.00%
Clear Nv Sys Files [21/601]: 70.50%
Clear Nv Sys Files [21/601]: 72.00%
Clear Nv Sys Files [21/601]: 73.50%
Clear Nv Sys Files [21/601]: 75.00%
Clear Nv Sys Files [21/601]: 76.50%
Clear Nv Sys Files [21/601]: 78.00%
Clear Nv Sys Files [21/601]: 79.50%
Clear Nv Sys Files [21/601]: 81.00%
Clear Nv Sys Files [21/601]: 82.50%
Clear Nv Sys Files [21/601]: 84.00%
Clear Nv Sys Files [22/601]: 85.50%
Clear Nv Sys Files [22/601]: 87.00%
Clear Nv Sys Files [22/601]: 88.50%
Clear Nv Sys Files [22/601]: 90.00%
FW upgrade success.
FW download success.
Download Pass
```

**Figure 19: Successful Firmware Upgrade**

## 2.4. Abnormalities

Abnormalities may be caused by incorrect parameter of baud rate, damaged EVB/TE-B or invalid files, etc. The following illustrates some common abnormalities.

## 2.4.1. Selected a Wrong Serial Port

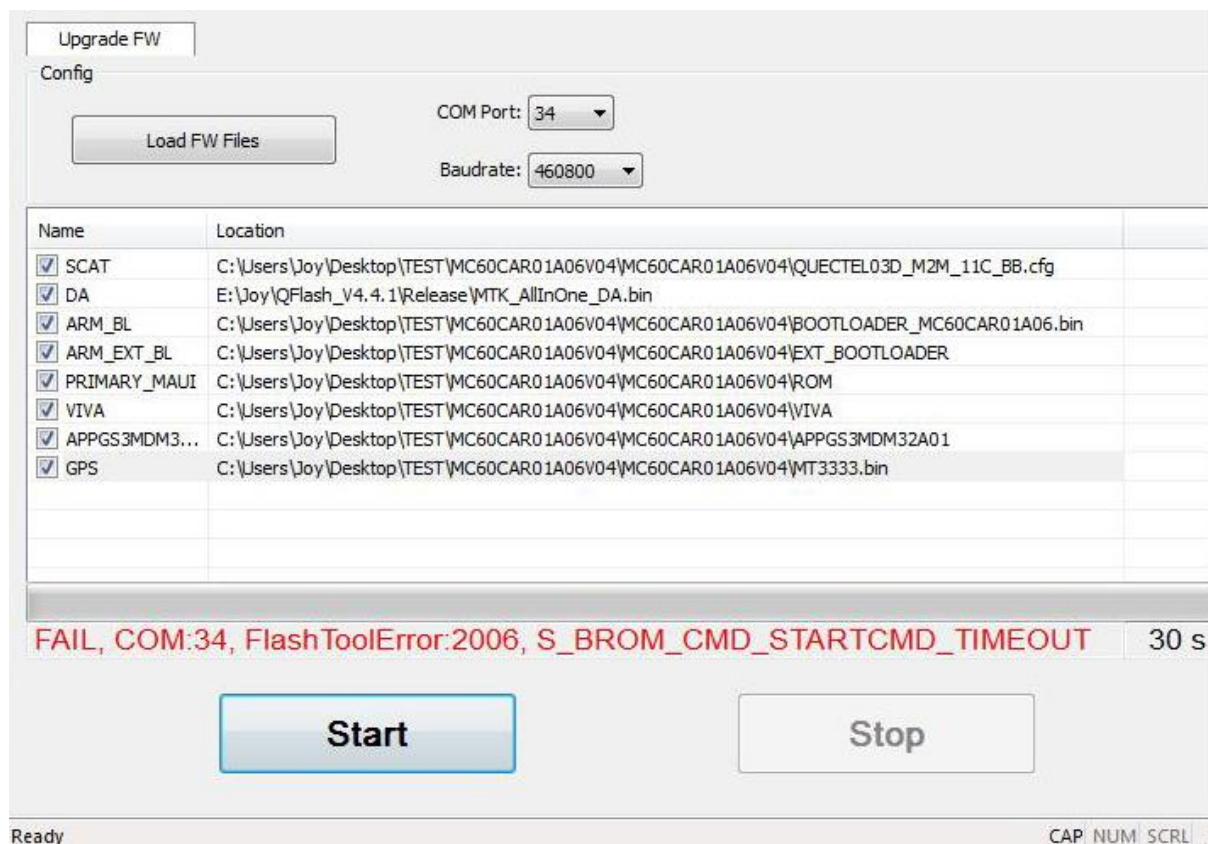


Figure 20: Connected to a Wrong Serial Port (Mxx)

### NOTE

After selecting a correct serial port, if Mxx modules are not restarted, then the error message will be the same as that of selecting a wrong serial port.



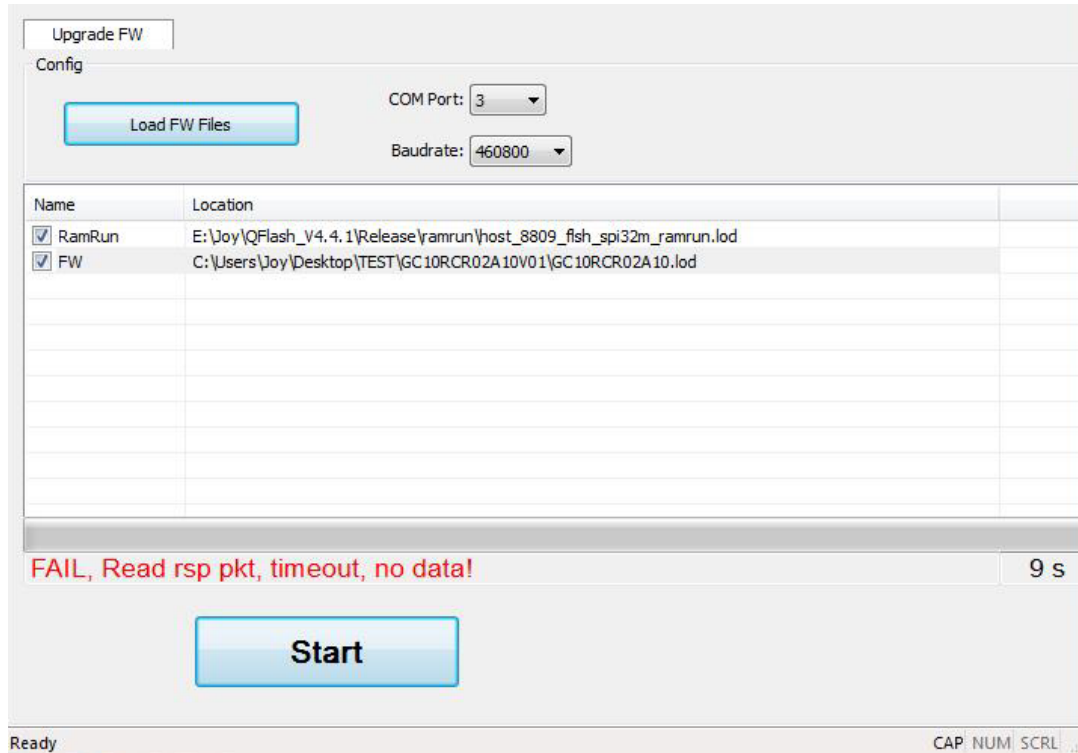


Figure 21: Connected to a Wrong Serial Port (GCxx)

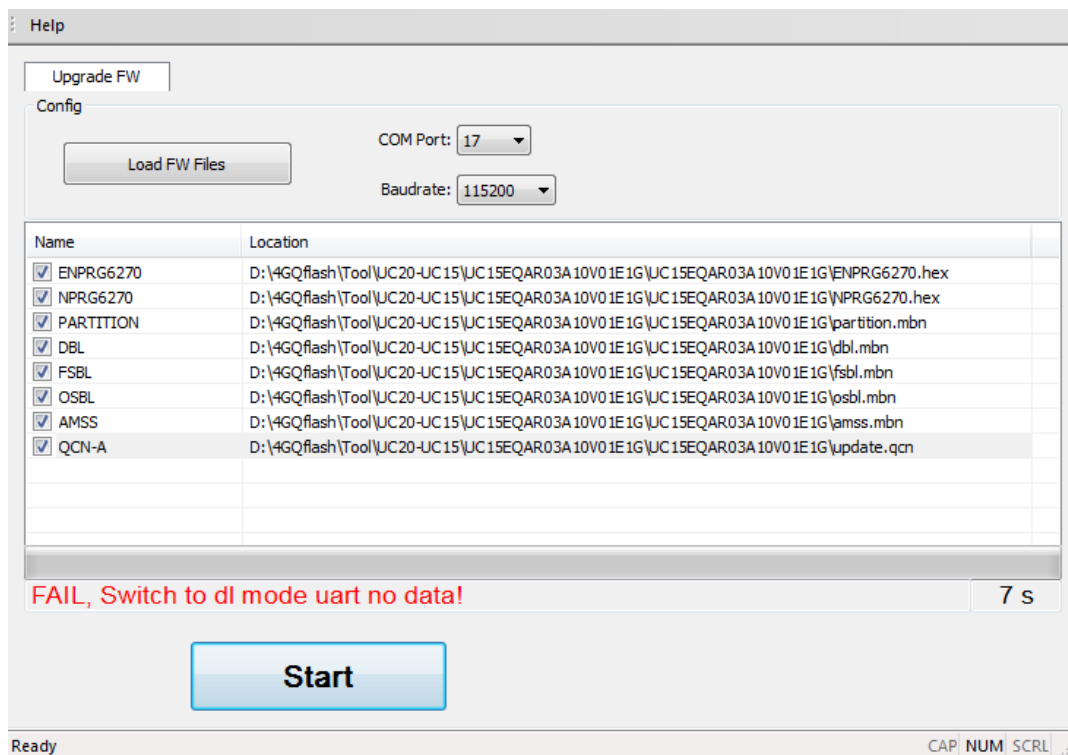


Figure 22: Connected to a Wrong Serial Port (UCxx)

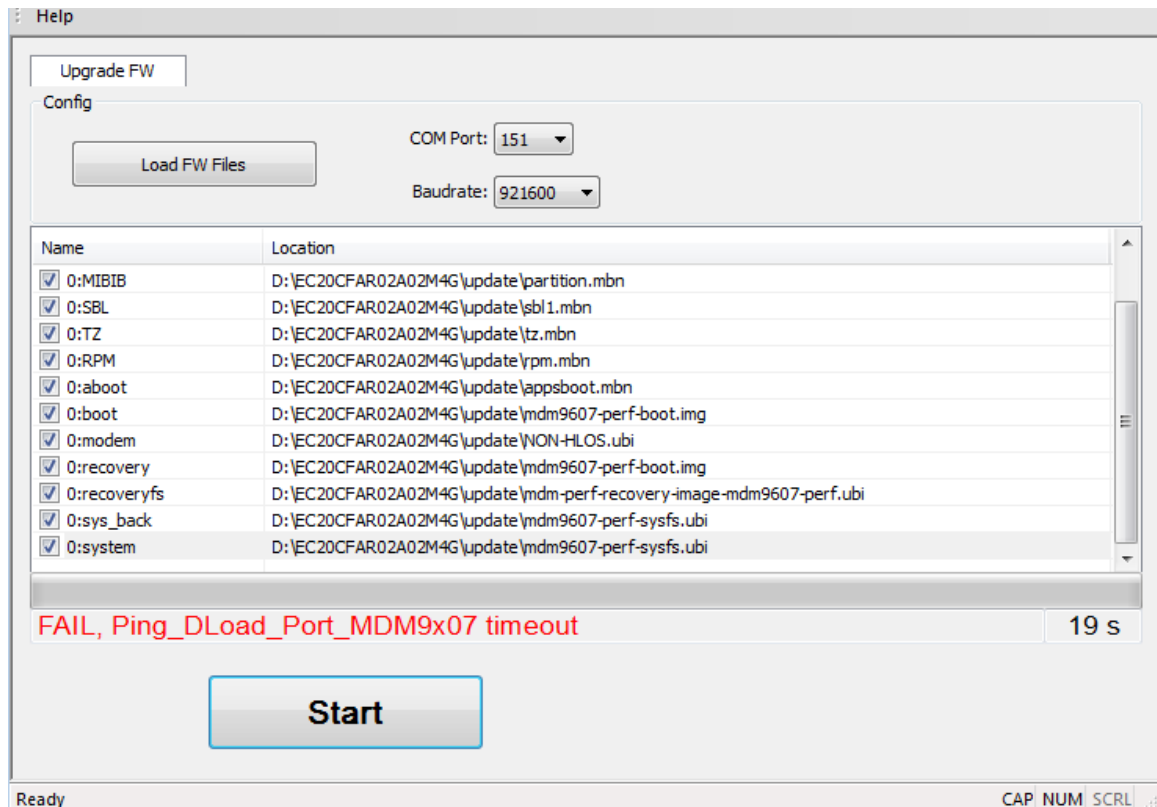


Figure 23: Connected to a Wrong Serial Port (ECxx/EG9x/Ex06/EM05/BG96/EM12)

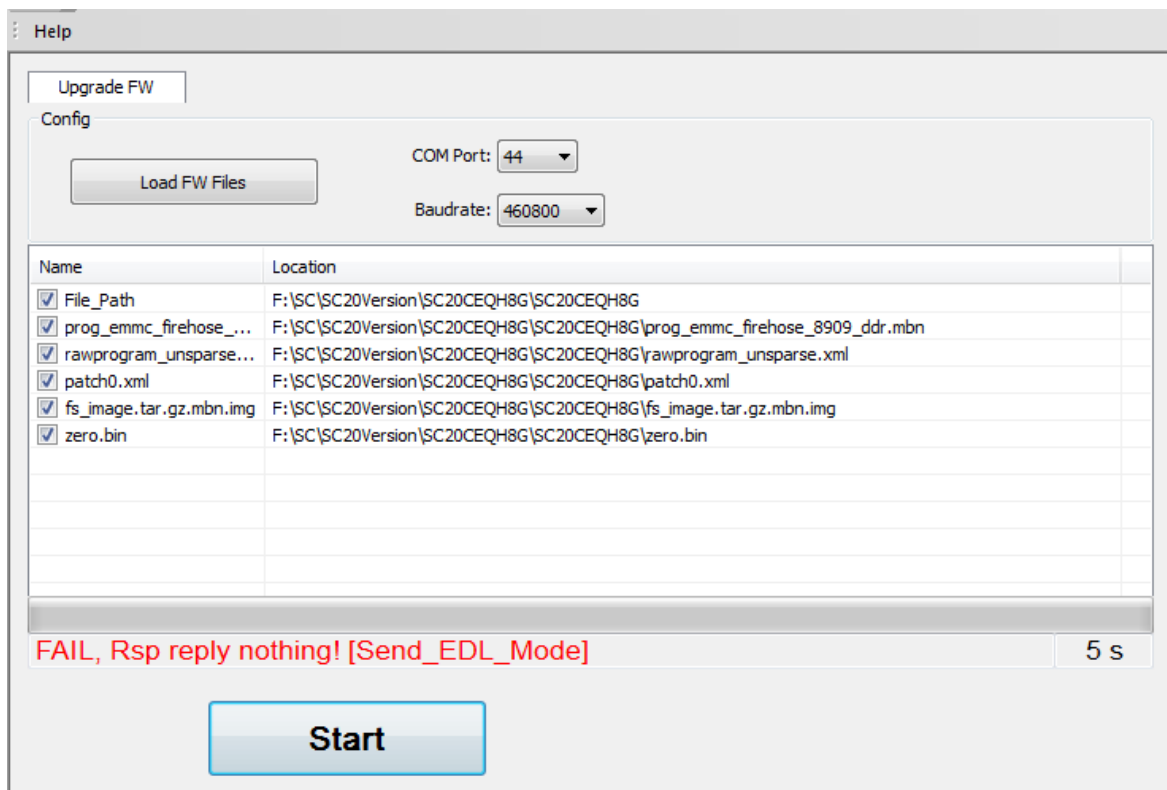


Figure 24: Connected to a Wrong Serial Port (SCxx)

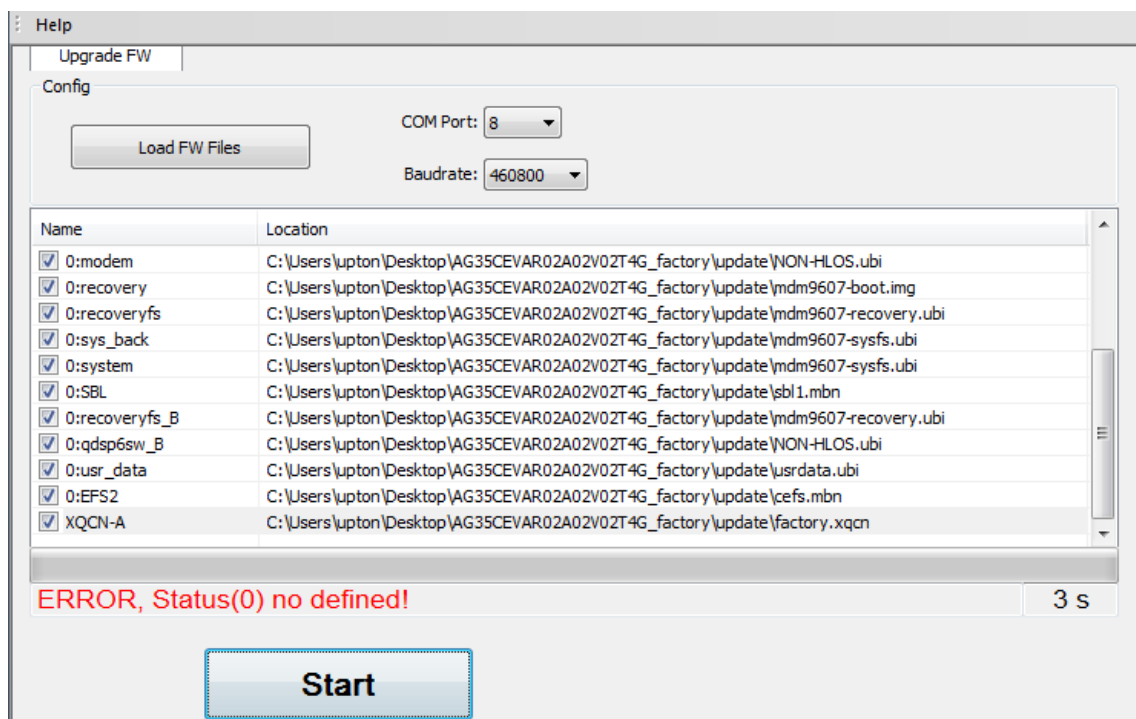


Figure 25: Connected to a Wrong Serial Port (AG35)

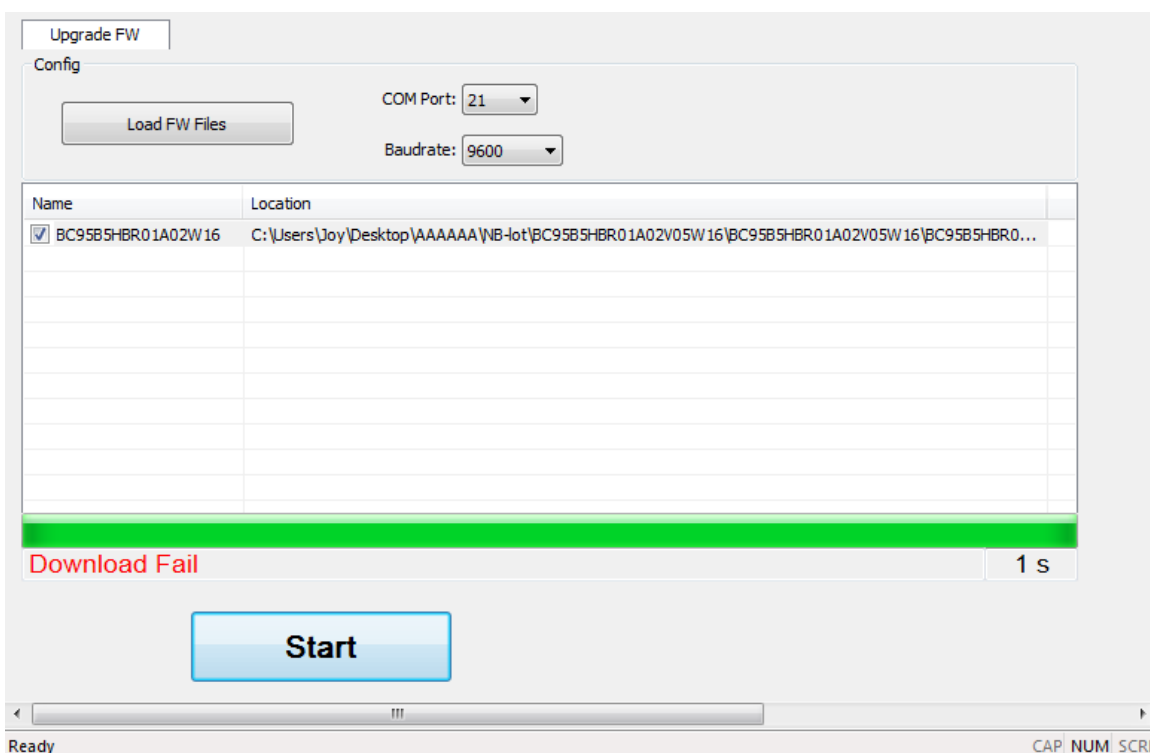


Figure 26: Connected to a Wrong Serial Port (BCxx)

## 2.4.2. Connected to an Occupied Serial Port

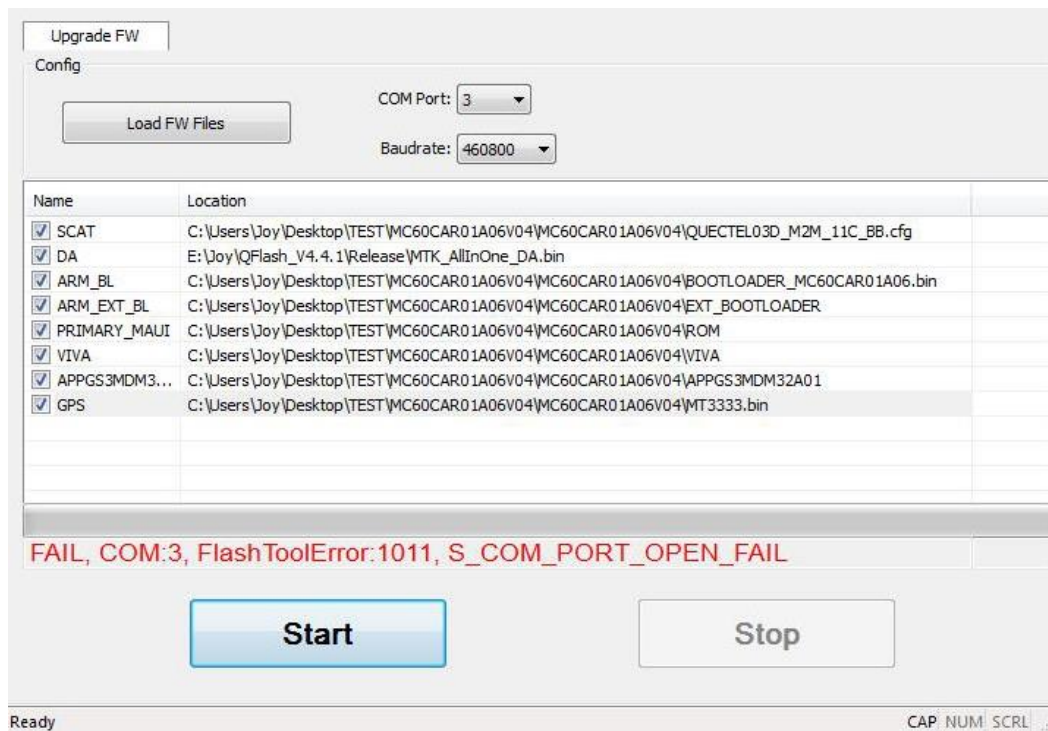


Figure 27: Connected to an Occupied Serial Port (Mxx)

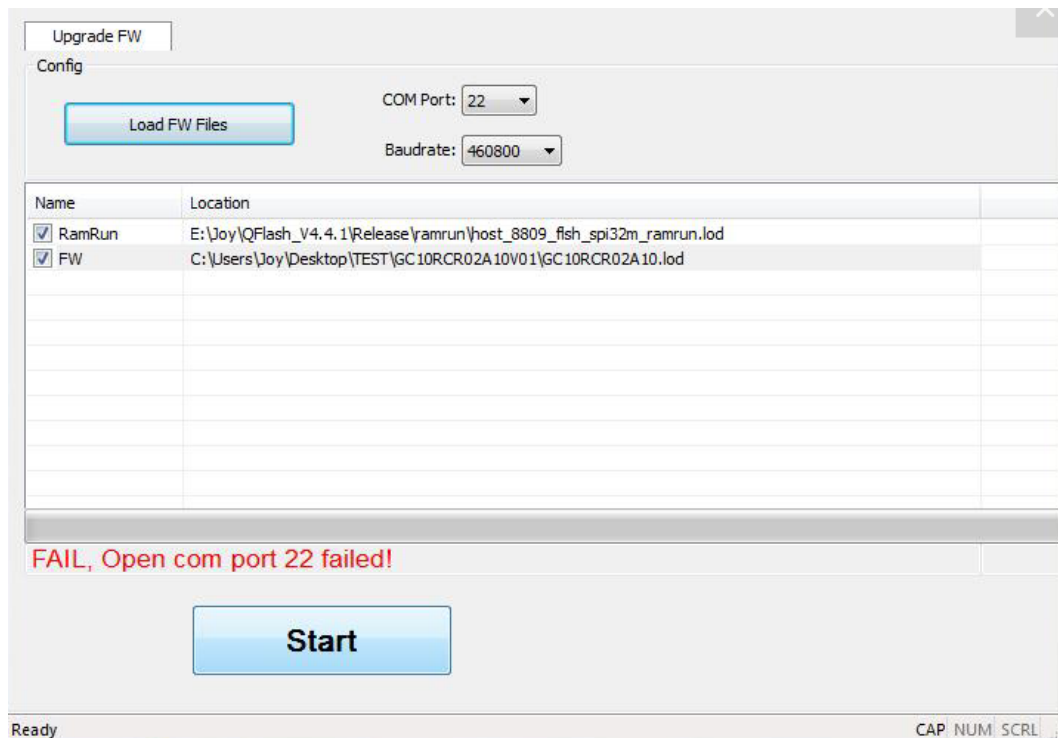


Figure 28: Connected to an Occupied Serial Port (GCxx)

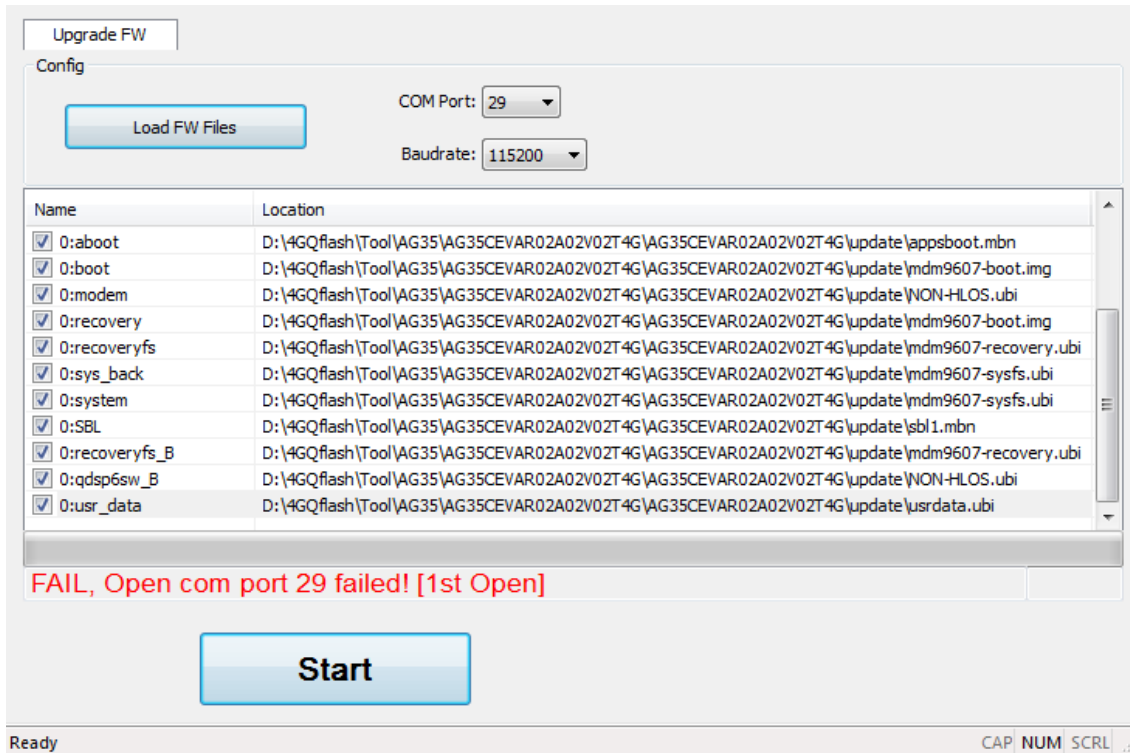


Figure 29: Connected to an Occupied Serial Port (UCxx/ECxx/EG9x/Ex06/SCxx/EM05/AG35/BG96/EM12)

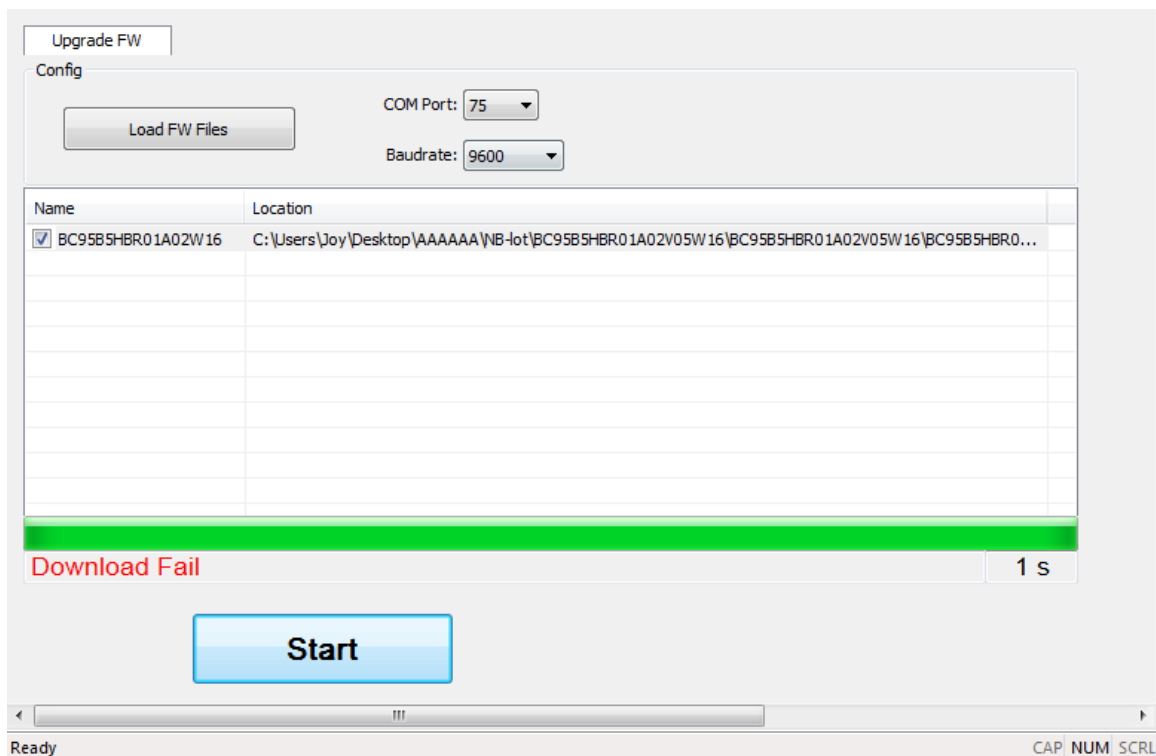


Figure 30: Connected to an Occupied Serial Port (BCxx)

### 2.4.3. Selected an Unsupported Baud Rate

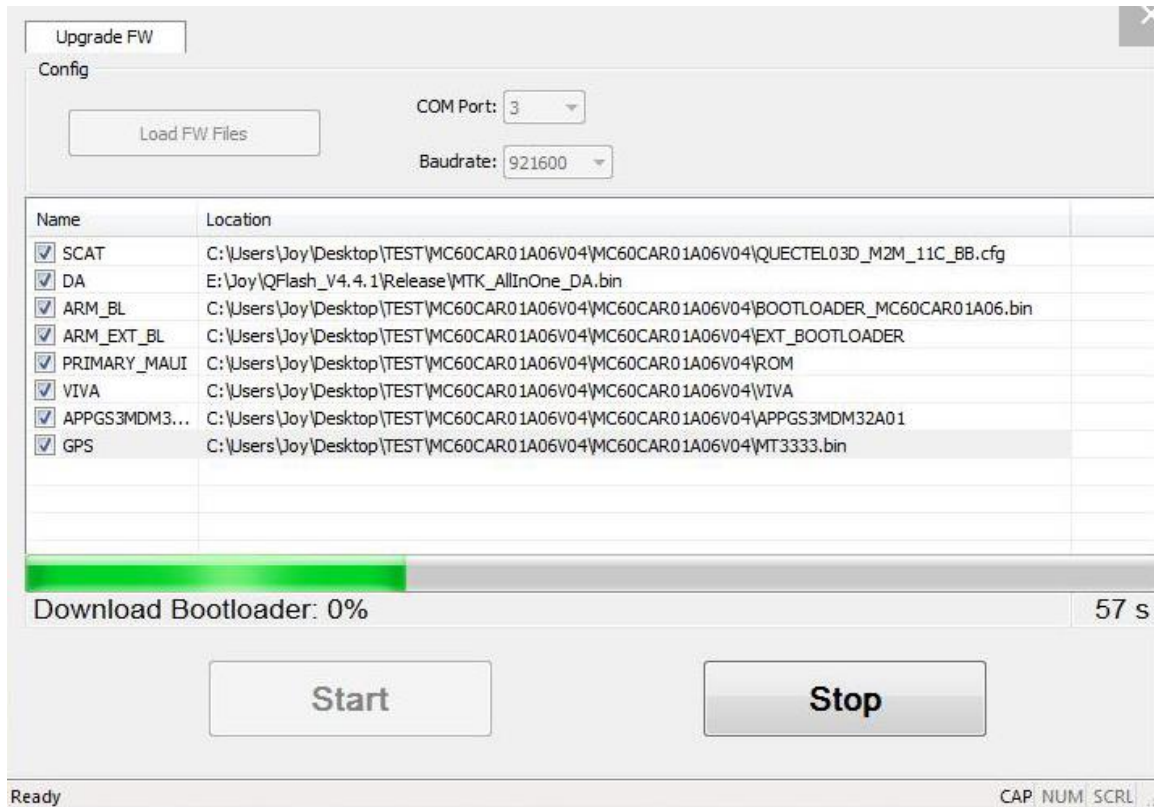


Figure 31: Selected an Unsupported Baud Rate (Mxx)

#### NOTE

For Mxx modules, if an unsupported baud rate is selected, the tool will stop running and no error message will be prompted. In such a case, please click the **“Stop”** button to re-select a supported baud rate to restart with.

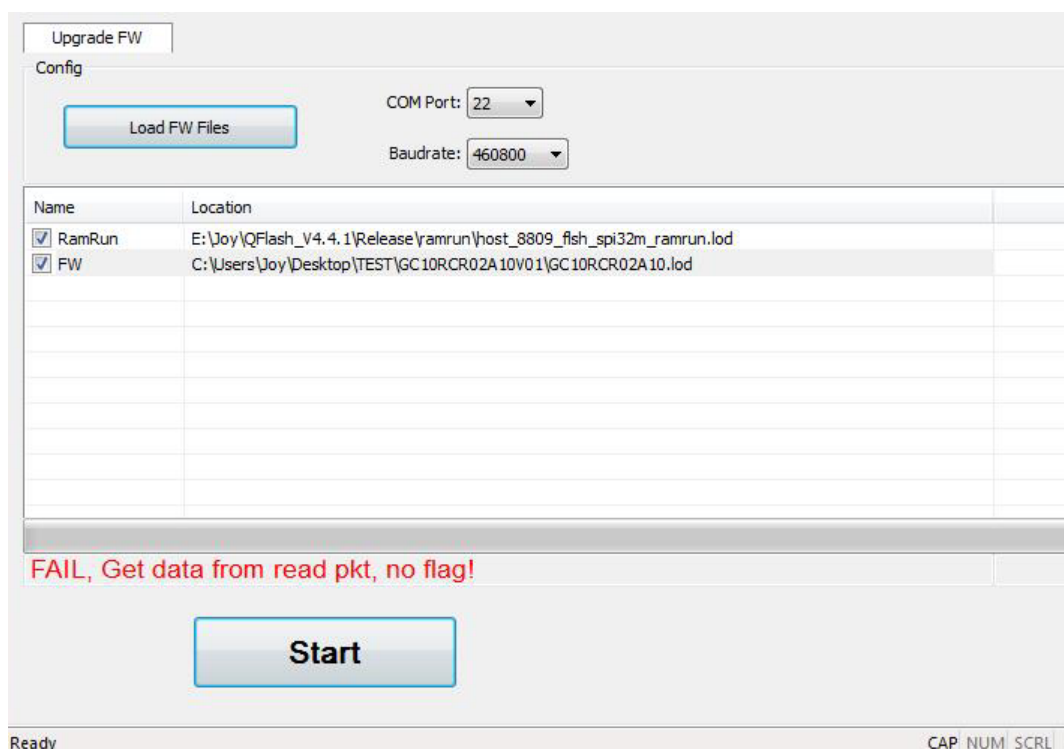


Figure 32: Selected an Unsupported Baud Rate (GCxx)

#### 2.4.4. Selected an Invalid Load File

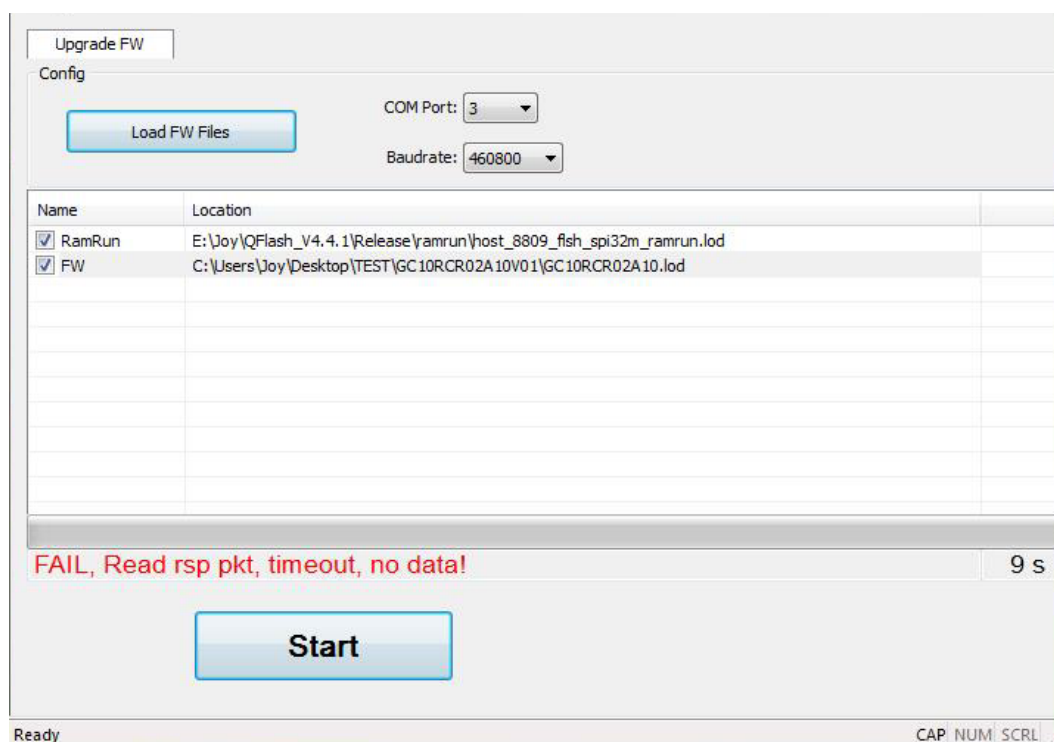


Figure 33: Selected an Invalid Scatter File (Mxx)



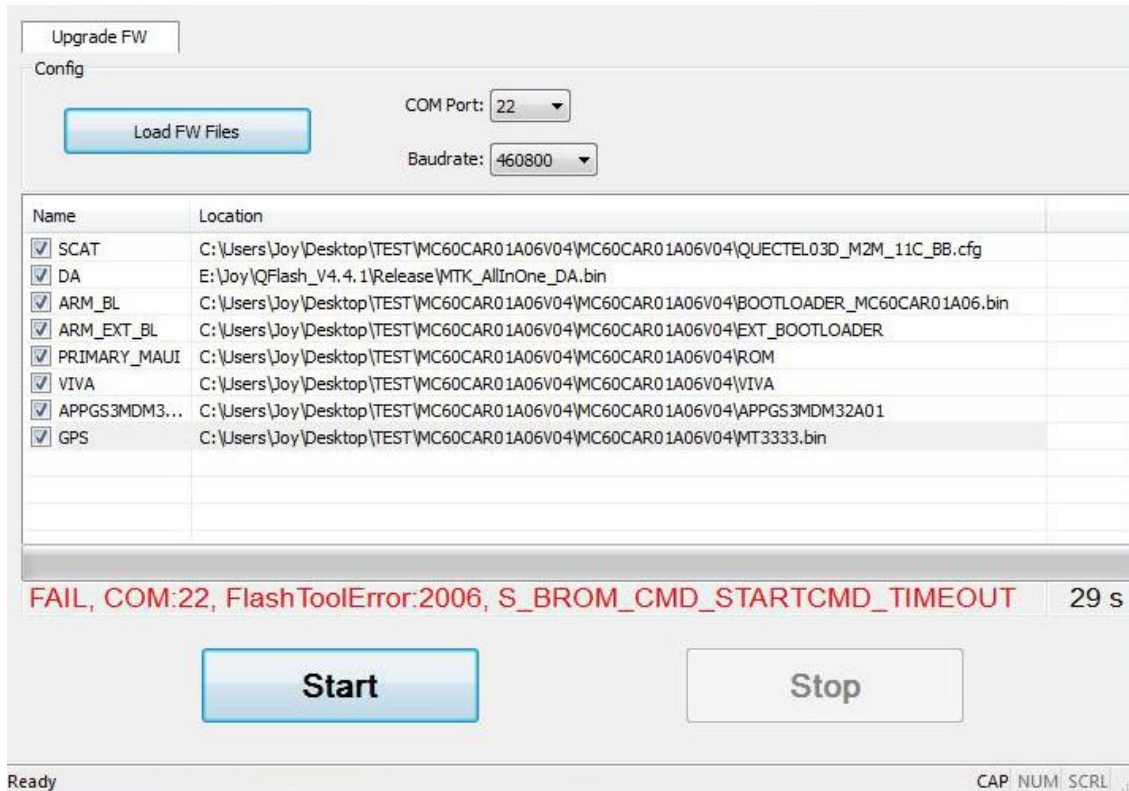


Figure 34: Selected an Invalid Load File (GCxx)

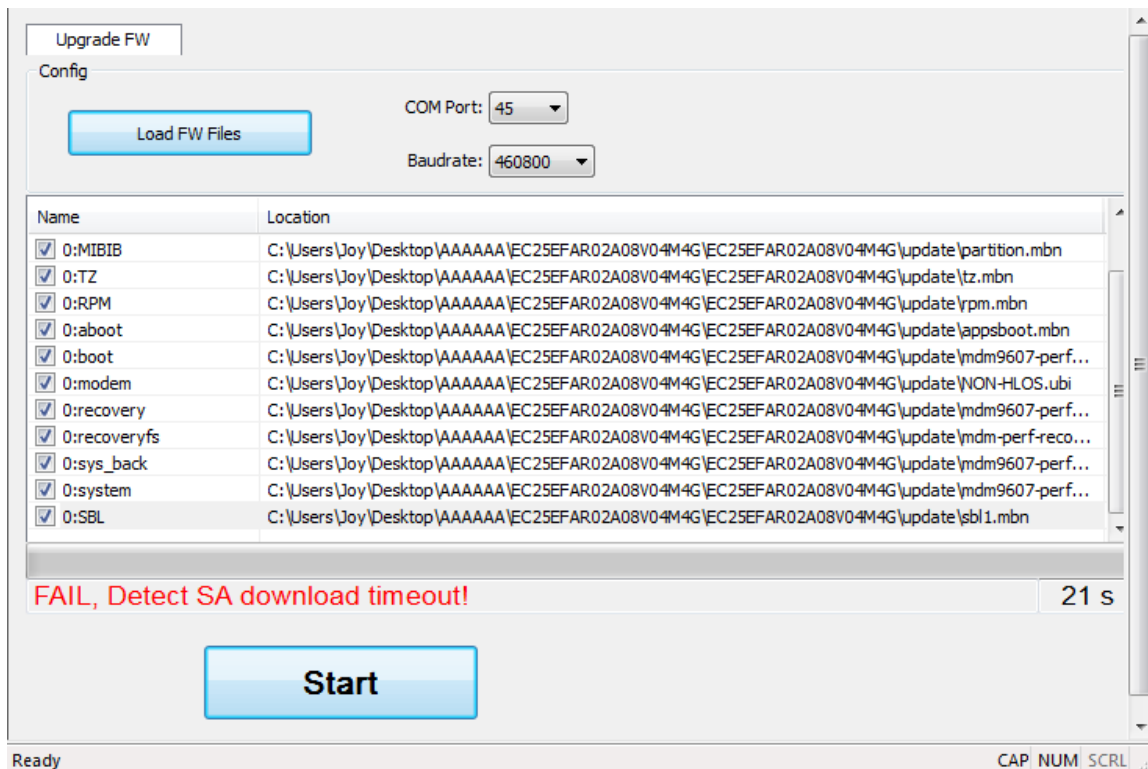


Figure 35: Selected an Invalid Load File (UCxx)



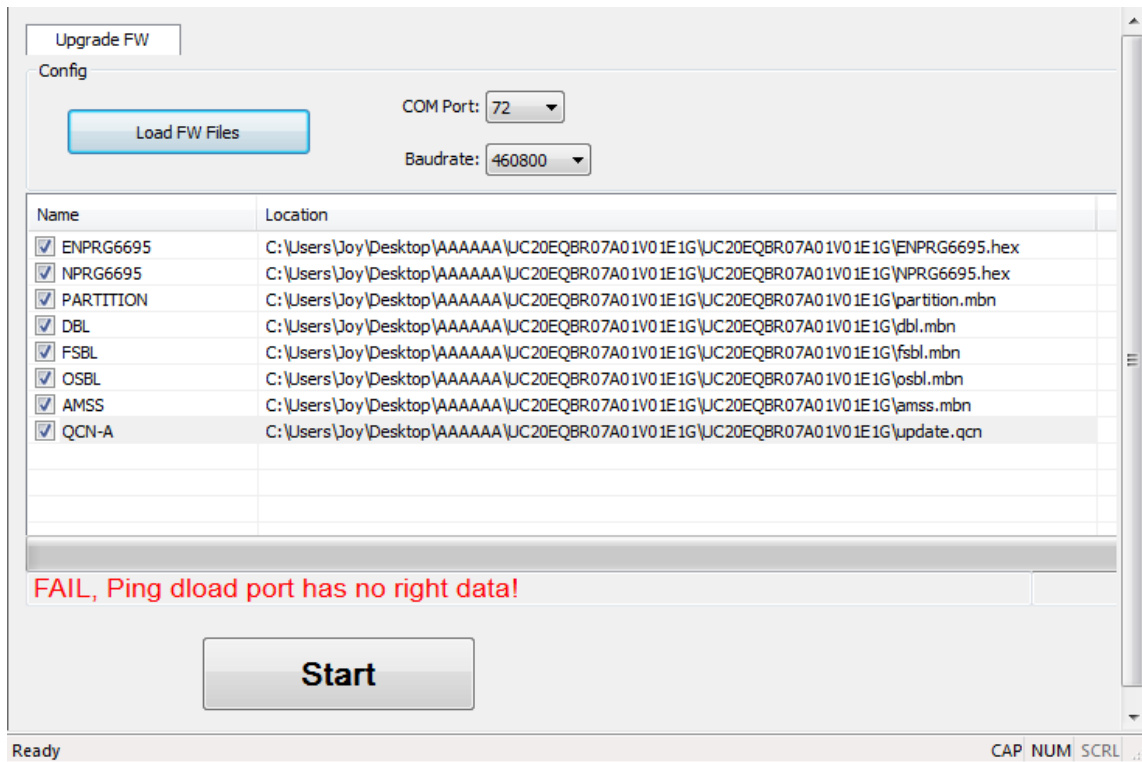


Figure 36: Selected an Invalid Load File (ECxx/EG9x)

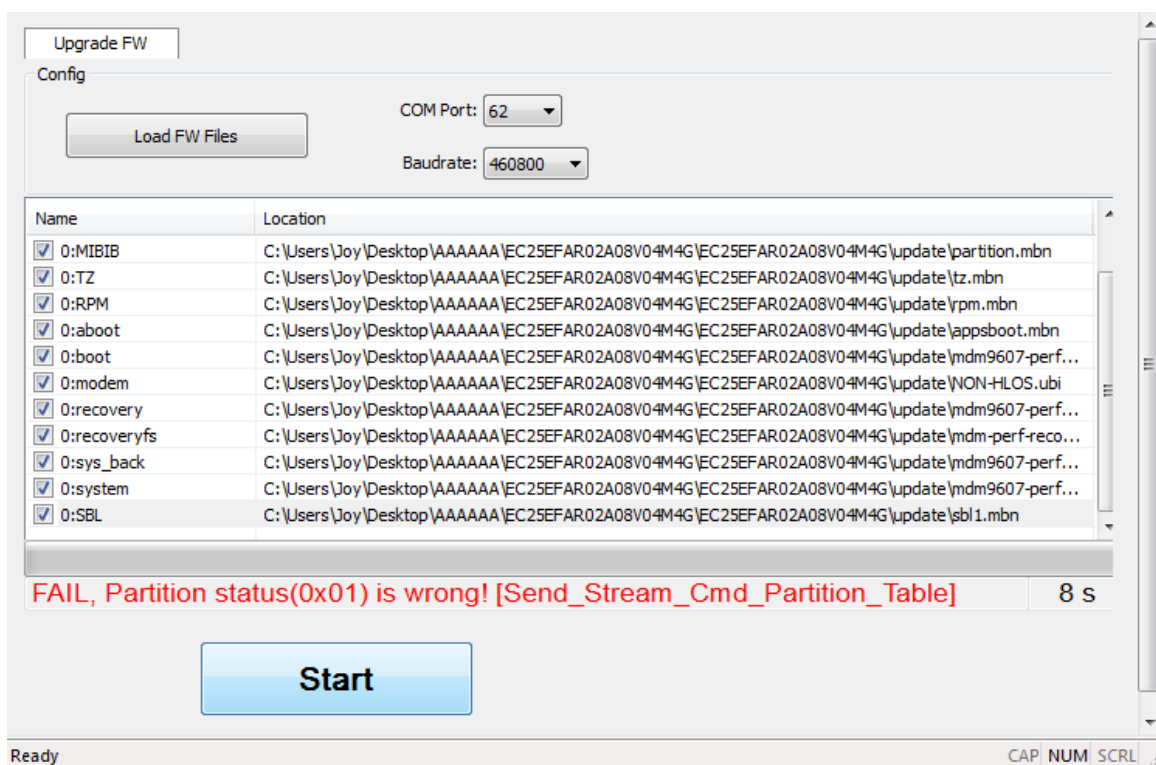


Figure 37: Selected an Invalid Load File (Ex06/AG35/BG96/EM12)

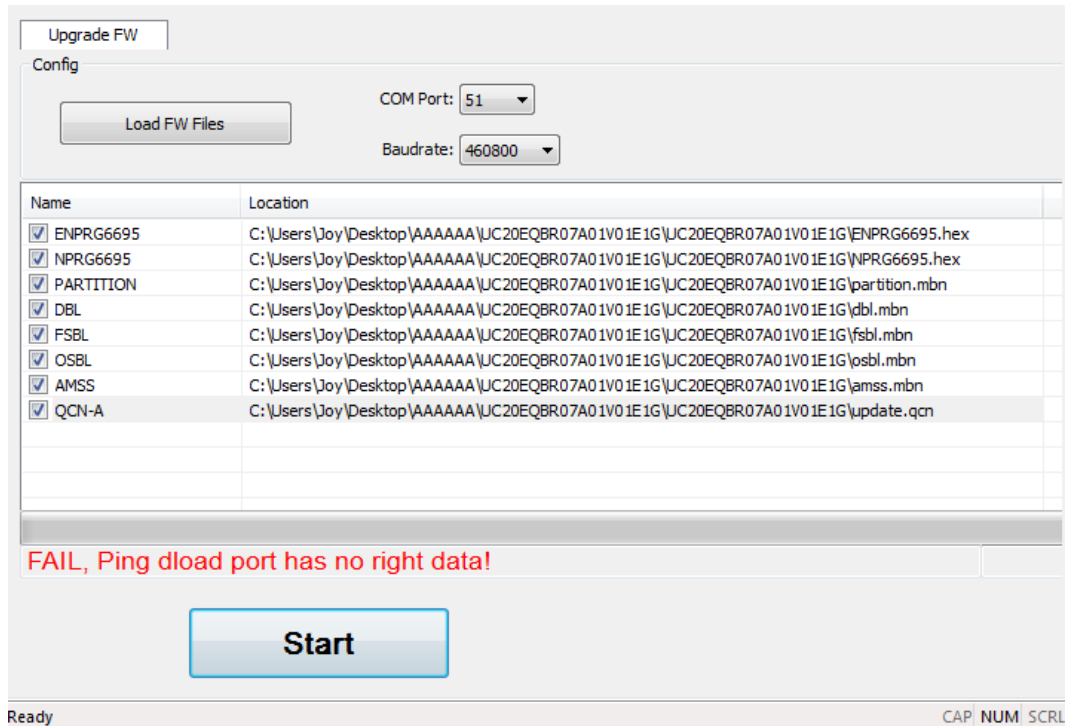


Figure 38: Selected an Invalid Load File (EM05)

#### 2.4.5. Power Supply is Abnormal

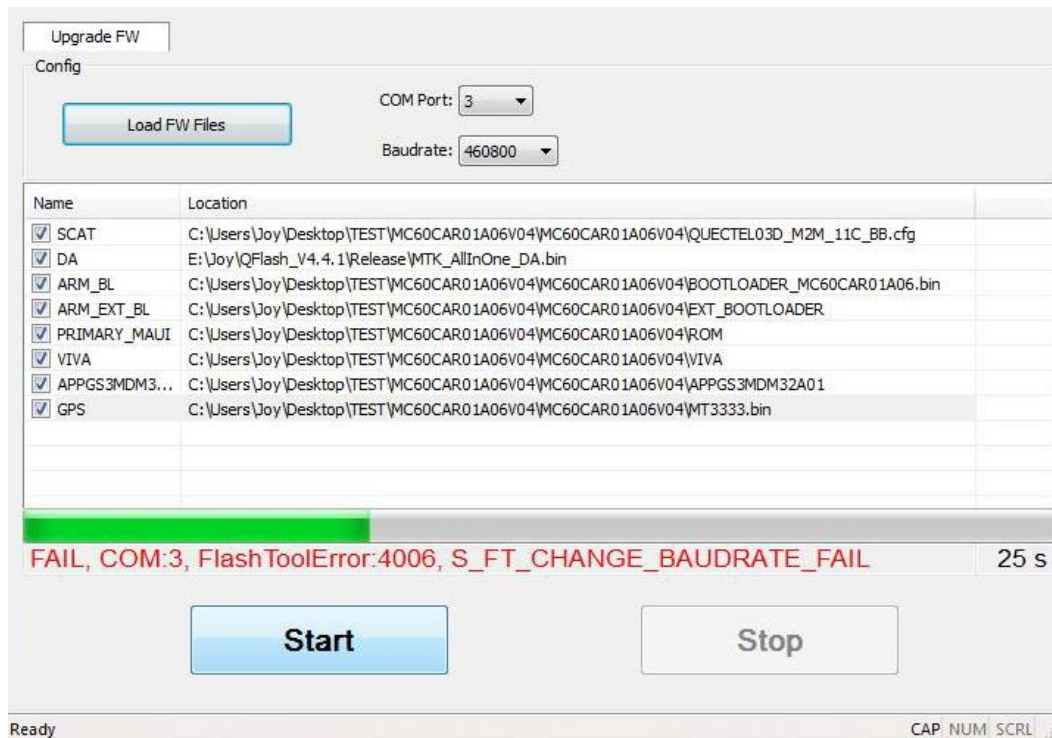


Figure 39: Abnormal Power Supply (Mxx)

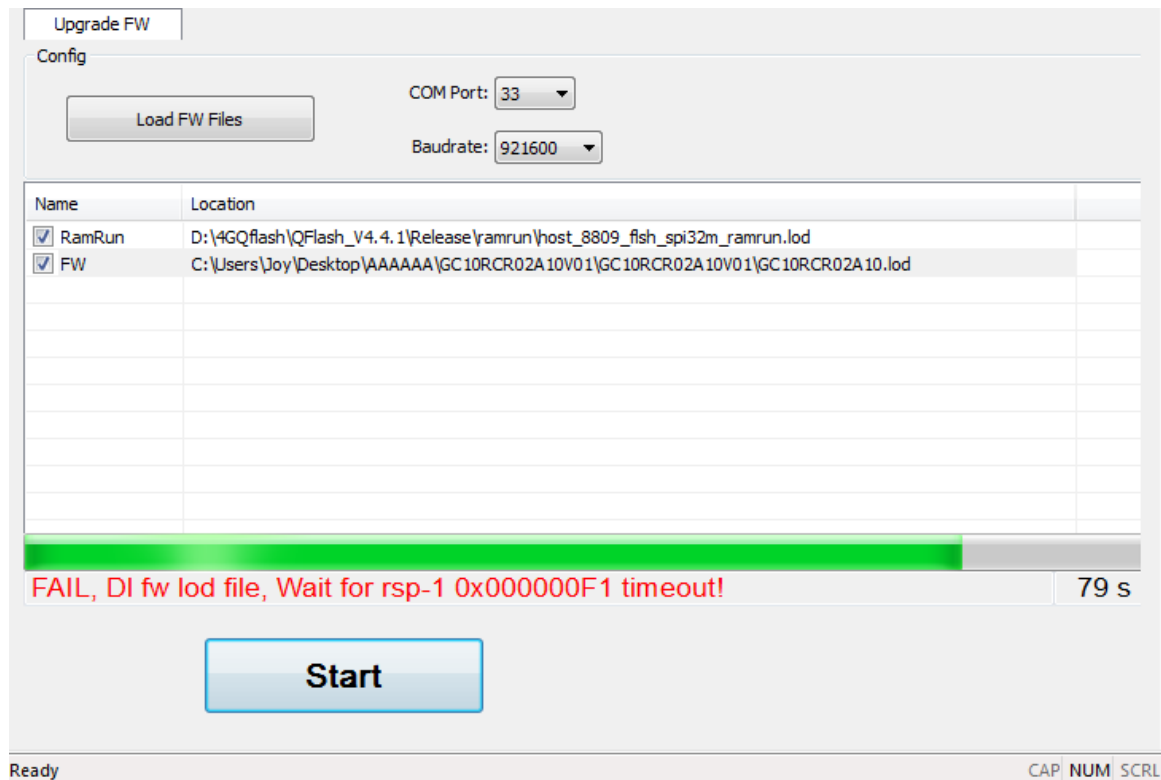


Figure 40: Abnormal Power Supply (GCxx)

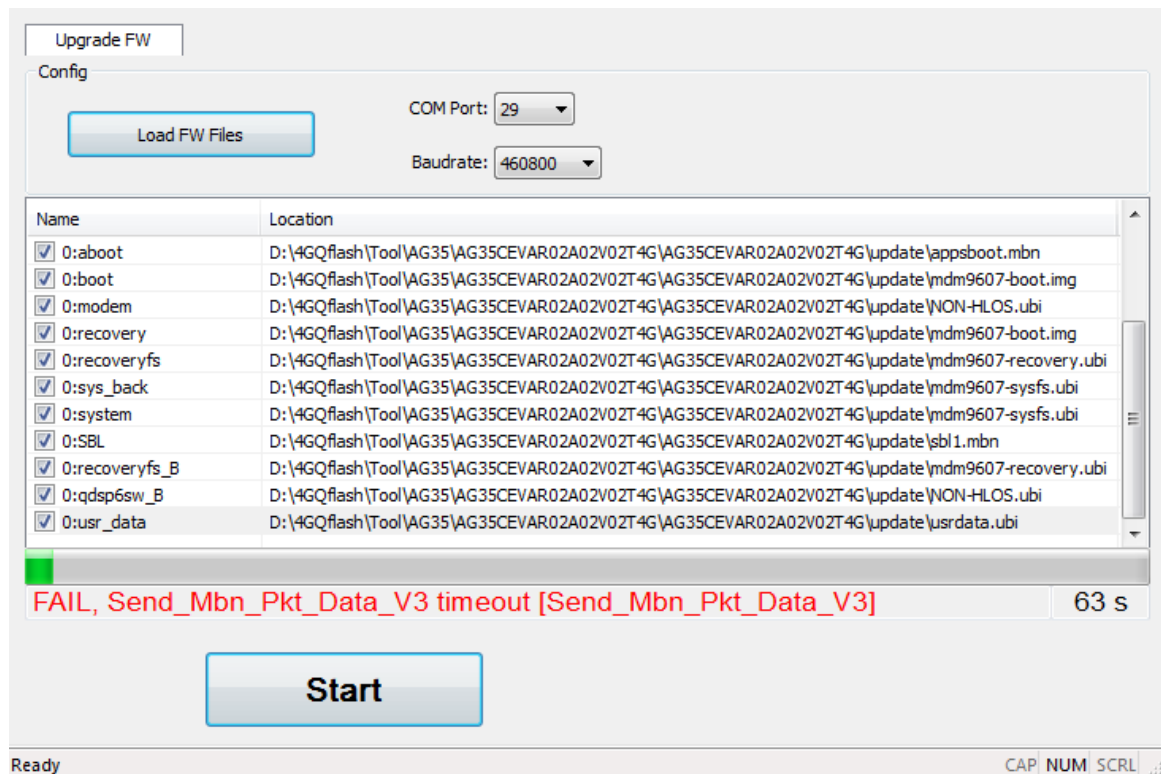


Figure 41: Abnormal Power Supply (UCxx/ECxx/EG9x/Ex06/EM05/AG35/BG96/EM12)

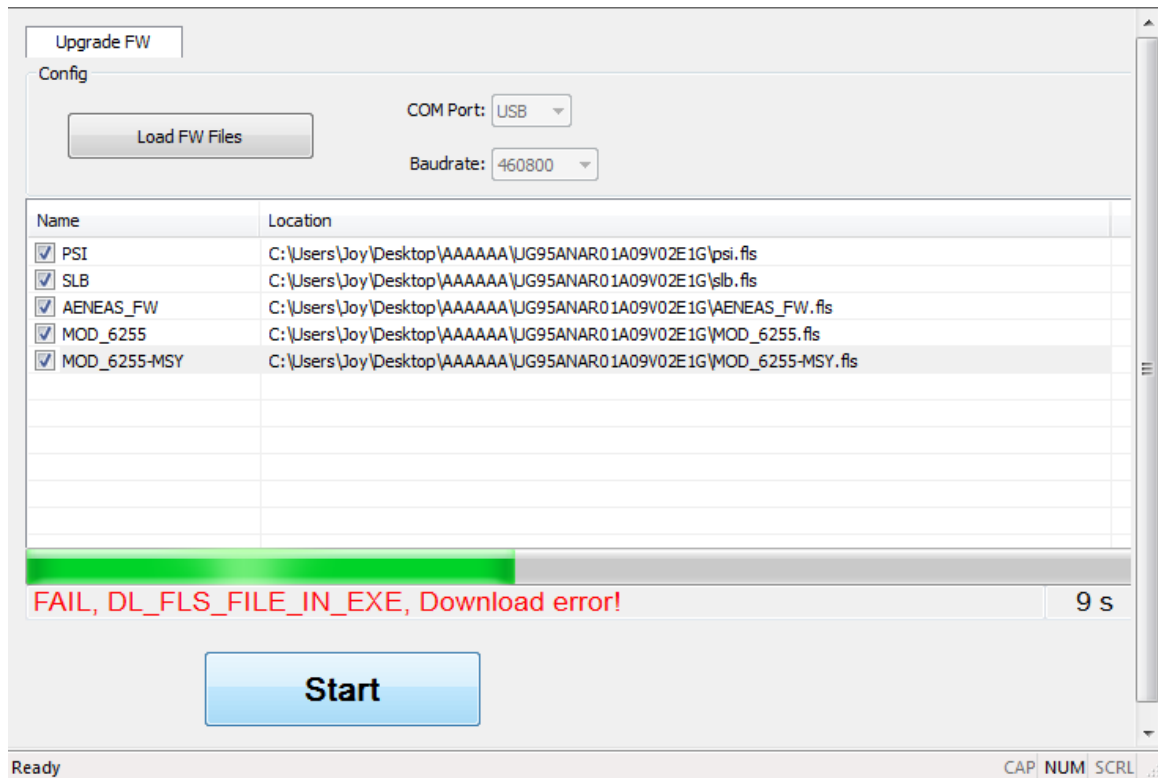


Figure 42: Abnormal Power Supply (UGxx)

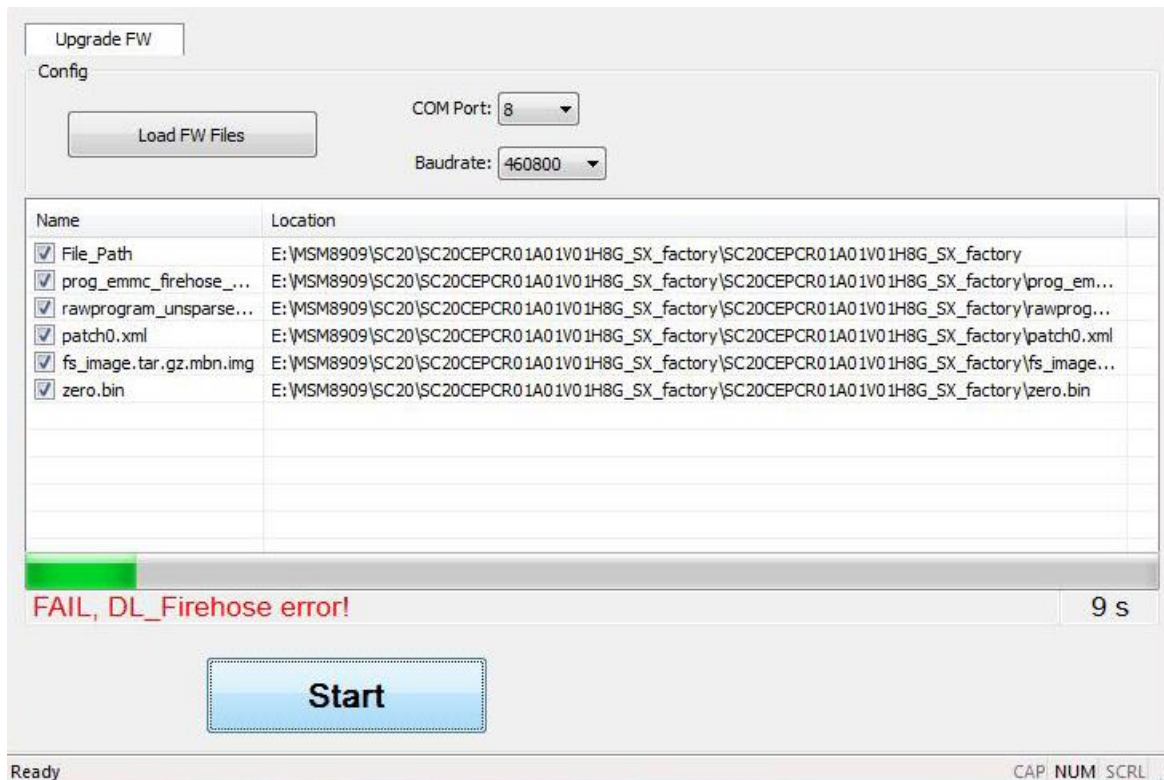


Figure 43: Abnormal Power Supply (SCxx)



#### 2.4.6. USB to RS-232 Converter Cable is Abnormal

