

QFlash User Guide

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About the Document

Revision History

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1.0	2012-10-30	Yolanda YAO	Initial
1.1	2012-12-02	Yolanda YAO	Updated QFlash version to 1.1
1.2	2013-02-25	Karen REN	Updated QFlash version to 1.4
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			OpenCPU module (Chapter 2.2.2.2)
			6. Added abnormalities of M65 (Figure 23, 31, 38 and 45)
2.10	2019-11-12	Anne QIU	<ol style="list-style-type: none"> 1. Updated QFlash version to 4.14 2. Added the method of upgrading BG95/BG77 module 3. Updated OpenCPU to QuecOpen
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3.7	2021-04-30	Shirly WANG	<ol style="list-style-type: none"> 1. Updated QFlash version to 5.3 2. Added the method of upgrading BG770A-GL 3. Added the method of upgrading AG509M-EU 4. Added a note on the storage/loading path of the firmware package
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4.6	2023-01-06	Cherry ZHAO	<ol style="list-style-type: none">1. Updated QFlash version to 6.22. Added the methods of upgrading EG060W, AG519M and SC668S
4.7	2023-03-28	Sia SHEN	<ol style="list-style-type: none">1. Updated QFlash version to 6.32. Added the methods of upgrading AG590E, BC950K and FCM100D

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1 Introduction

1.1. OS and Version

This document mainly introduces methods of upgrading the firmware with “QFlash” upgrade tool provided 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
- Windows 11

NOTE

1. In Windows 10 & 11, please start *QFlash.exe* by right-clicking the icon and select “**Run as administrator**”.
2. The storage path of the tool and the firmware package should NOT contain any space, and English characters are preferred.
3. The storage/loading path of the firmware package has to be a local path instead of a USB or network path.

1.2. Applicable Modules

QFlash is applicable to the following Quectel modules.

Table 1: Applicable Modules

Module Series	Modules
5G Module Series	RG200U/RG500U/RM500U
	RG500L
	Rx500Q: RG500Q/RM500Q
	Rx520N: RG520N/RM520N
	RG525F
LTE-A Module Series	Ex06: EP06/EG06/EM06
	Ex12: EG12/EM12-G
	EG18
	EG060W
LTE Standard Module Series	EC2x: EC20-CE/EC21/EC25
	EG2x-G: EG21-G/EG25-G
	EG9x: EG91/EG95
	EC200A/EC200S/EG912Y
	EC200U
	EM05
Automotive Module Series	AGxx: AG35/AG15/AG215S
	AG52xR: AG520R/AG521R/AG525R/AG529R
	AG55xQ: AG550Q/AG551Q/AG552Q/AG553Q
	AG509M/AG519M/AG590E
Smart Module Series	SCxx: SC20/SC66/SC200E
	SC668S

	SG560D/SG865W
LPWA Module Series	BCxx: BC66/BC92
	BC660K/BC950K
	BGxx: BG77/BG95/BG96
	BG770A/BG950A/BG951A
GSM/GPRS/GNSS Module Series	Mxx: M65/M66/M95/MC60
Wi-Fi&Bluetooth Module Series	FC41D/FCM100D

NOTE

Quectel modules listed above may include a single model or multiple models. See the corresponding module specifications for more specific information.

1.3. About QFlash Tool

Click “**About This Tool**” under “**Help**” in the toolbar, and you can obtain the version information of the QFlash tool developed by Quectel as is shown below:

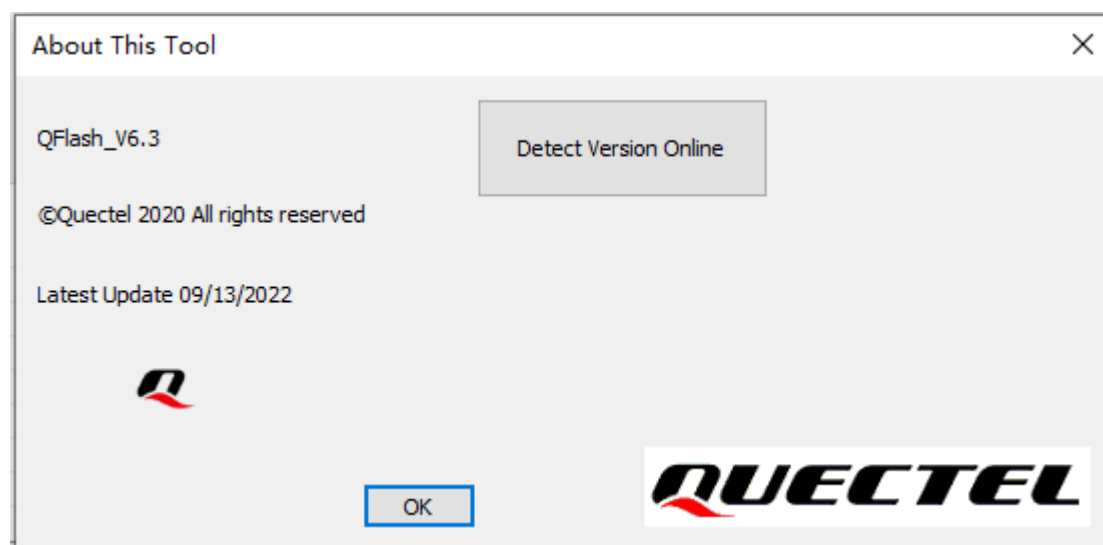


Figure 1: About the QFlash Tool

2 Firmware Upgrade Procedures

The firmware is upgraded through the following three steps with QFlash.

Step 1: Set the serial port and baud rate;

Step 2: Load firmware files;

Step 3: Upgrade the firmware.

The following chapters describe the details about 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.

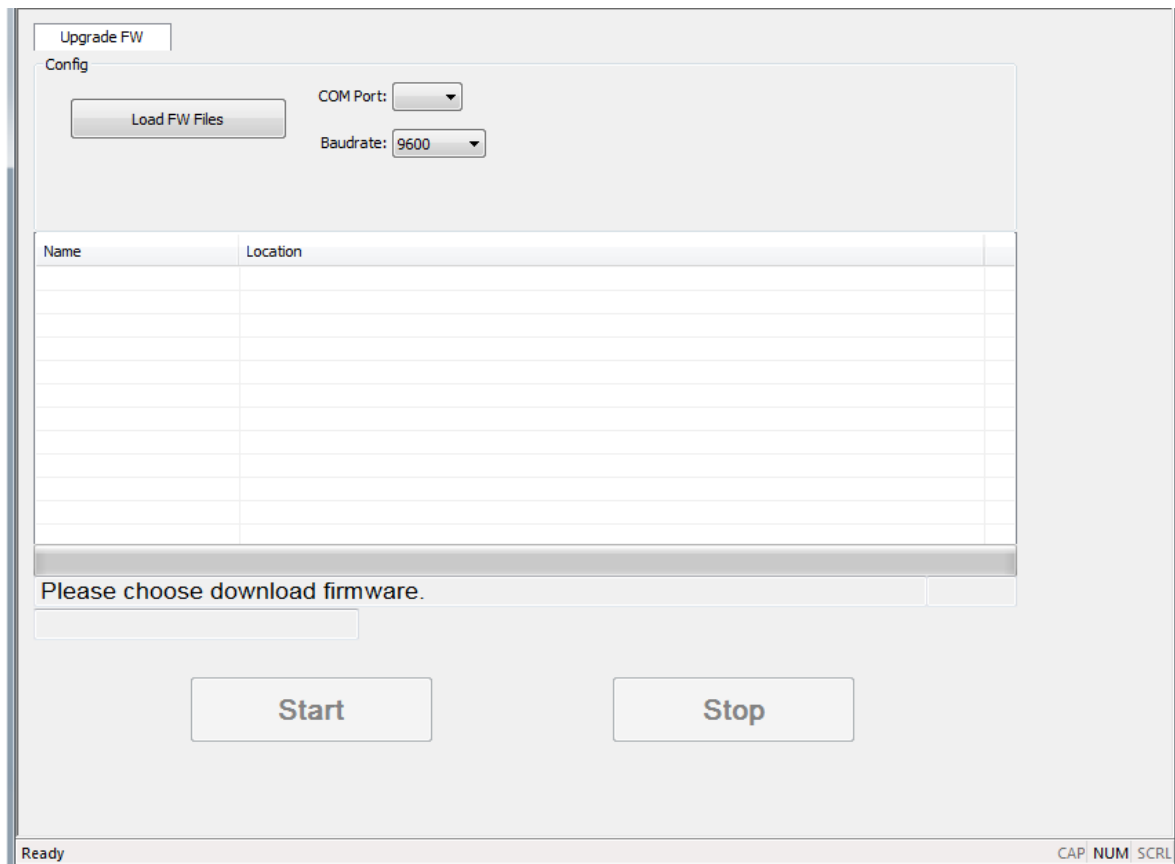


Figure 2: Main Interface of QFlash

2.1.1. Set COM Port

2.1.1.1. COM Port Selection for RG200U/RG500U/RM500U/EC200U

For RG200U, RG500U, RM500U and EC200U, the USB AT port can be used for firmware upgrade. Click “**COM Port**” drop-down list and select Quectel USB AT port for upgrade, as shown in the following figure.

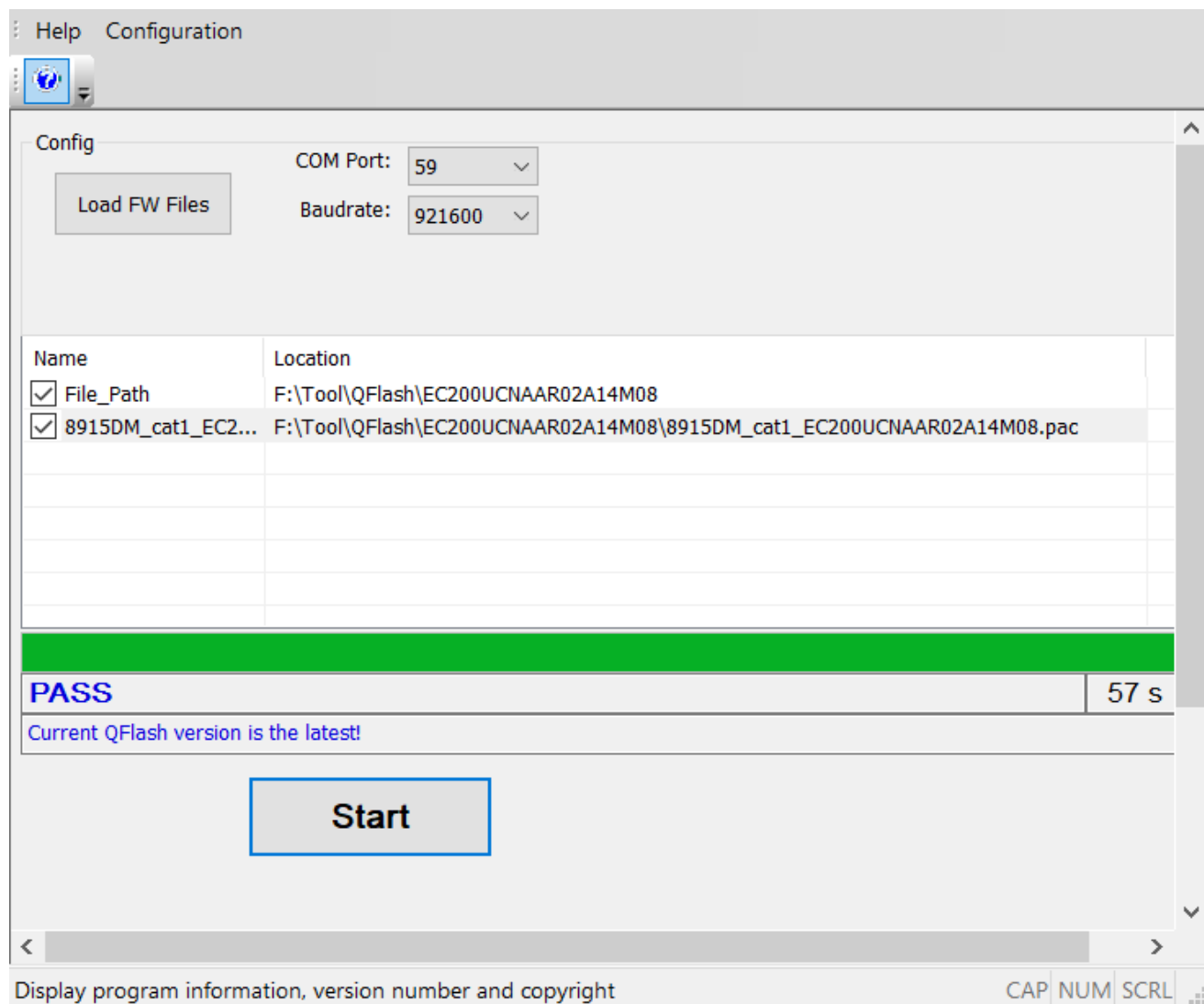


Figure 3: Select the USB AT Port for EC200U

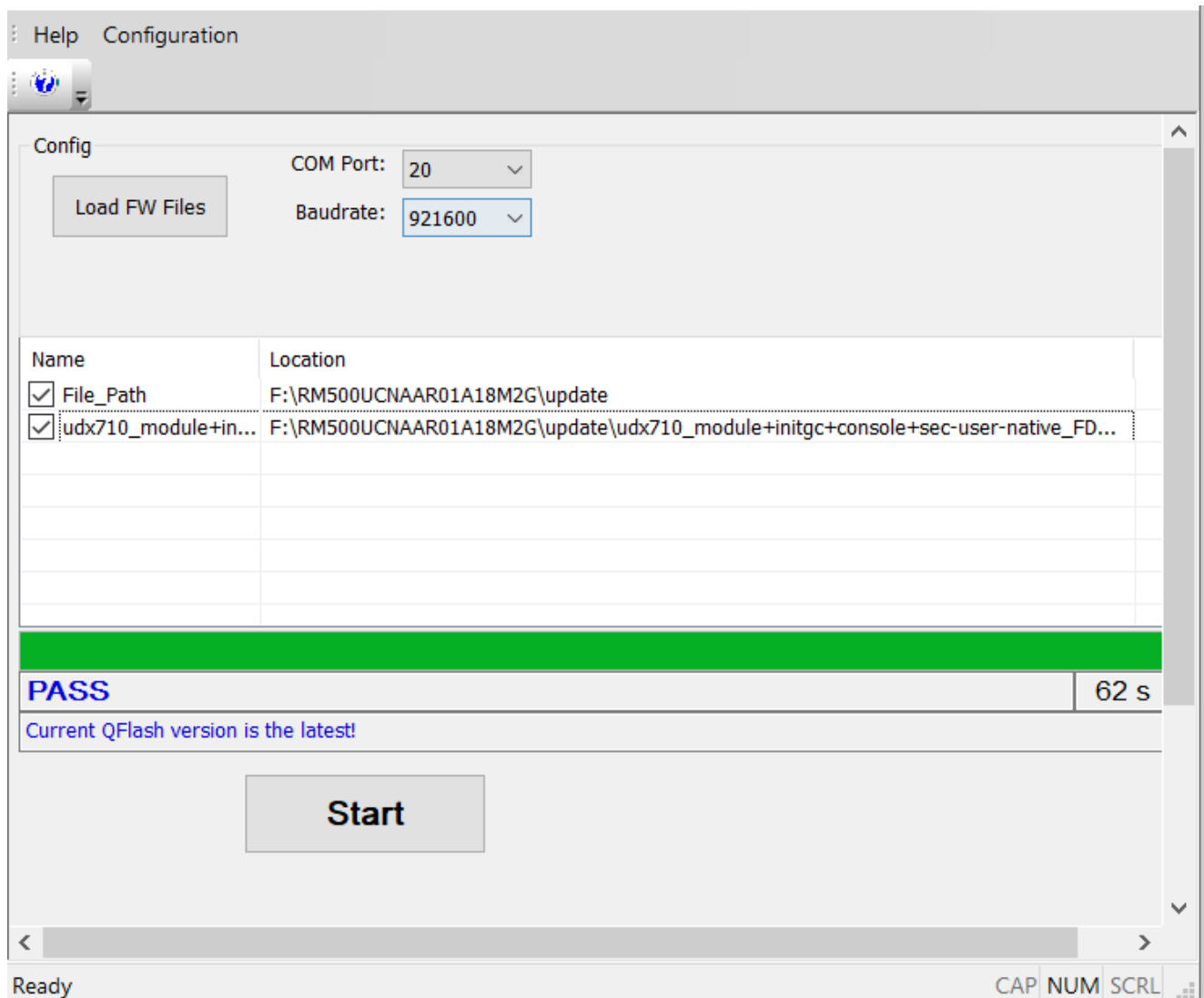


Figure 4: Select the USB AT Port for RG200U/RG500U/RM500U

NOTE

1. After the **“Start”** button is clicked, the tool will automatically switch to the SPRD U2S Diag port to start the upgrade. After successful upgrade, the loaded port is still the SPRD U2S Diag port and you need to reset the module to reload the ports.
2. You can also upgrade EC200U by short-circuiting BOOT to PL_1V8 to get the SPRD U2S Diag port loaded for upgrade.
3. For RG200U/RG500U/RM500U module, after **“Start”** button is clicked, the tool will automatically switch to the SPRD U2S Diag port to start the upgrade. After successful upgrade, the port loading is resumed automatically, and no need to reset the module.
4. You can also upgrade RG200U by pressing **“BOOT”** button when powering on, and then switch to SPRD U2S Diag port for upgrade. RG500U can be upgraded by short-circuiting BOOT to J201 to get the SPRD U2S Diag port loaded for upgrade.

2.1.1.2. COM Port Selection for RG500L

The RG500L module is upgraded using “Quectel USB ETS Port”.

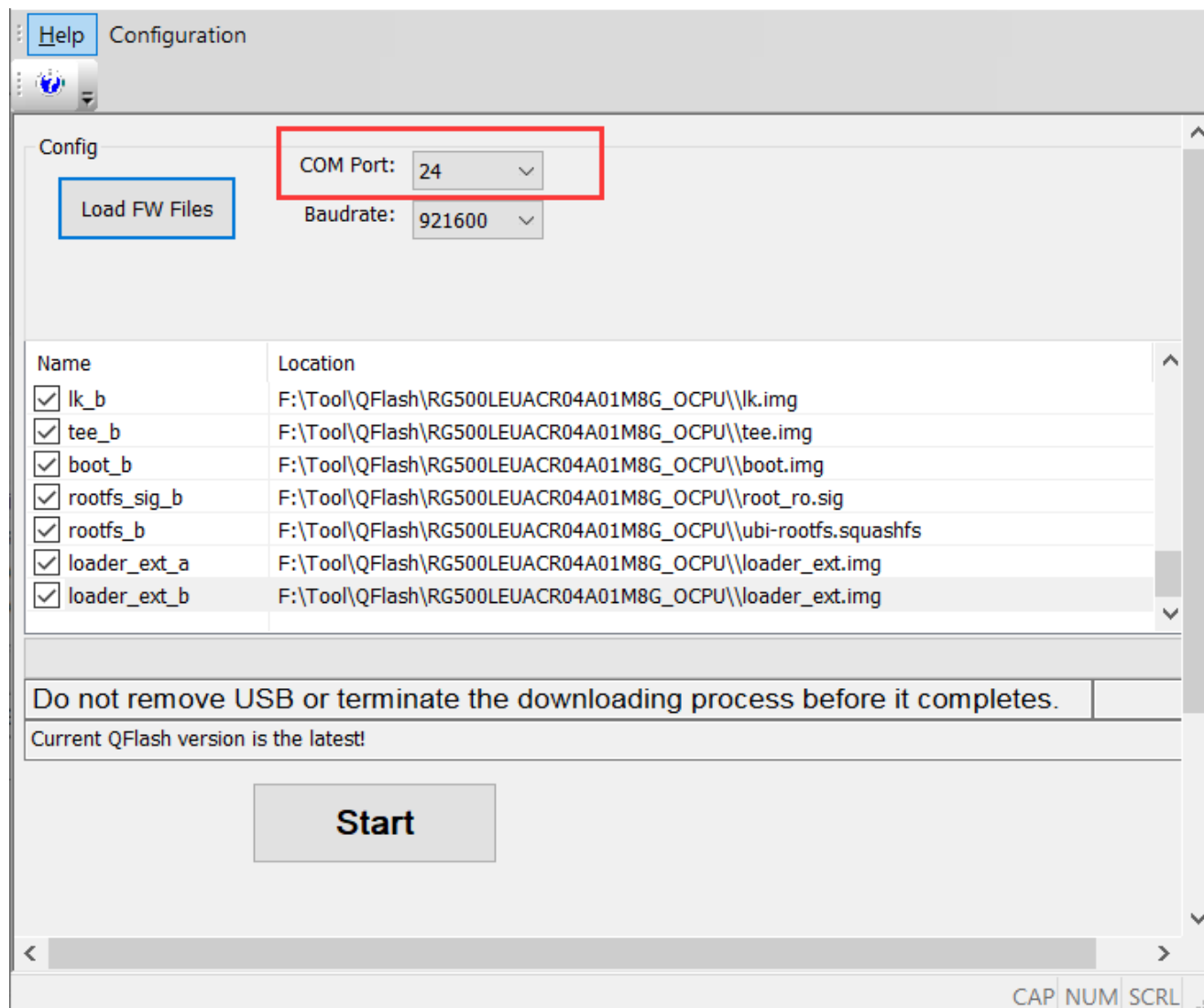


Figure 5: Select Quectel USB ETS Port for RG500L

2.1.1.3. COM Port Selection for Rx500Q/Rx520N/RG525F/Ex06/Ex12/EG18/EC2x/EG2x-G/EG9x/EM05/AGxx/AG52xR/AG55xQ/AG590E/SG865W/BGxx

For Rx500Q, Rx520N, RG525F, Ex06, Ex12, EG18, EC2x, EG2x-G, EG9x, EM05, AGxx, AG52xR, AG55xQ, AG590E, SG865W and BGxx, the USB DM port can be used for firmware upgrade. Click “**COM Port**” drop-down list and select the USB DM port for upgrade, as shown in the following figure.

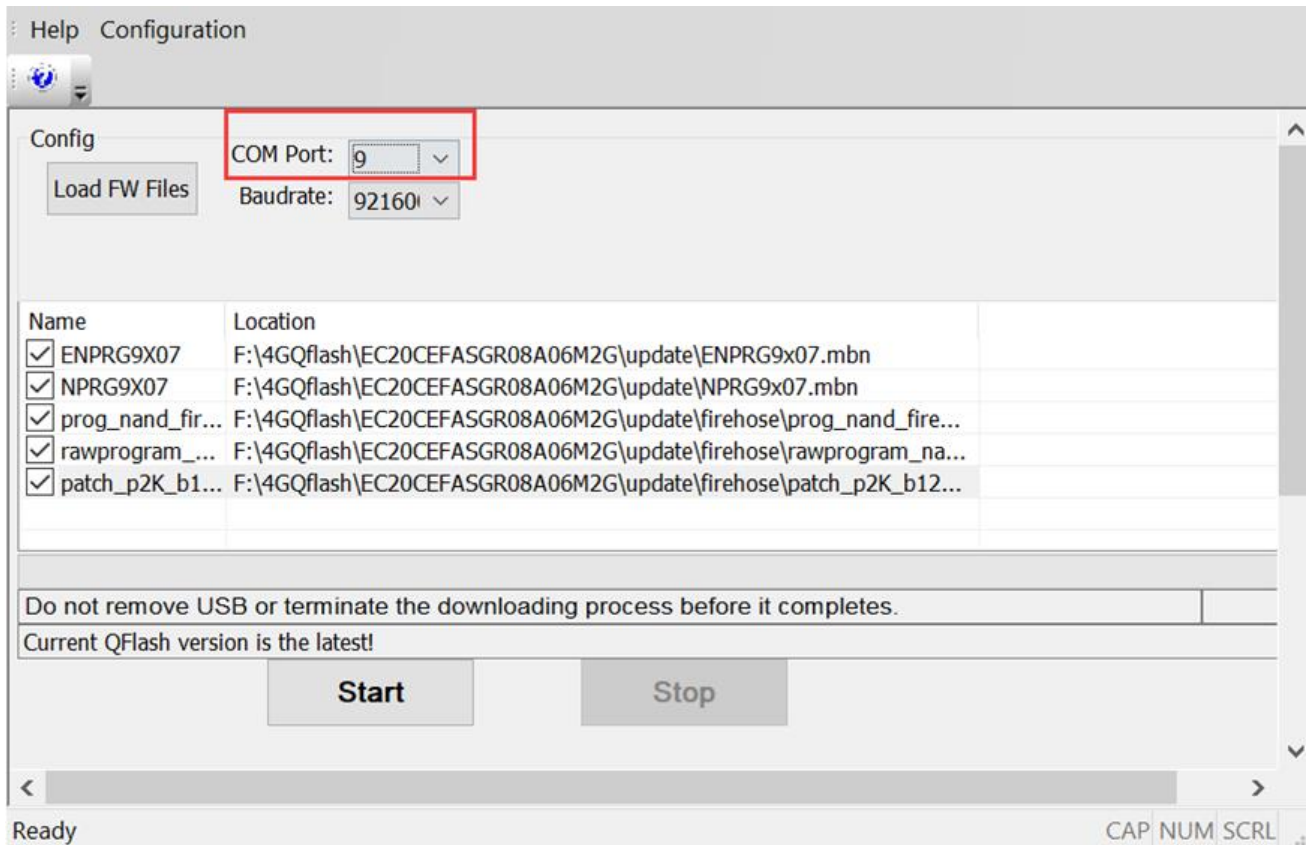


Figure 6: Select the USB DM Port for Rx500Q/Rx520N/RG525F/Ex06/Ex12/EG18/EC2x/EG2x-G/EG9x/EM05/AGxx/AG52xR/AG55xQ/AG590E/SG865W/BGxx

2.1.1.4. COM Port Selection for EG060W/EC200A/EC200S/EG912Y

For EG060W/EC200A/EC200S/EG912Y, you can directly select the .zip package to load firmware.

For EC200S and EG912Y, after clicking **“Load FW Files”** to select the .zip package, you can use either the USB AT port or Quectel Download Port for firmware upgrade. If you use USB AT port for upgrade, wait for the prompt **“getting serial devices list...\n”** before clicking **“Start”** to upgrade. If you use Quectel Download Port for upgrade, wait for the prompt **“<COM6> device <COM6> is ready to be enabled manually\n”** before clicking the **“Start”** button to upgrade.

The screenshot shows the QFlash Configuration window. At the top, there are tabs for 'Help' and 'Configuration'. Below the tabs, there is a 'Config' section with a 'Load FW Files' button. To the right of this button, there are two dropdown menus: 'COM Port:' set to '4' and 'Baudrate:' set to '921600'. Both dropdown menus are highlighted with a red rectangle. Below the configuration section, there is a table with two columns: 'Name' and 'Location'. The first row in the table has a checked checkbox, the name 'EC200SCNAAR01A...', and the location 'F:\ASR\EC200SCNAAR01A11M16\EC200SCNAAR01A11M16.zip'. Below the table, there is a text area showing the command prompt output: '"10:44:08.039 getting serial devices list...\n"'. This text area is also highlighted with a red rectangle. Below the text area, there is a status bar that says 'Current QFlash version is the latest!'. At the bottom of the window, there are two buttons: 'Start' and 'Stop'. In the bottom right corner, there are three small buttons: 'CAP', 'NUM', and 'SCRL'.

Name	Location
<input checked="" type="checkbox"/> EC200SCNAAR01A...	F:\ASR\EC200SCNAAR01A11M16\EC200SCNAAR01A11M16.zip

"10:44:08.039 getting serial devices list...\n"

Current QFlash version is the latest!

Start Stop

CAP NUM SCRL

Figure 7: Select the USB AT Port for EC200S/EG912Y

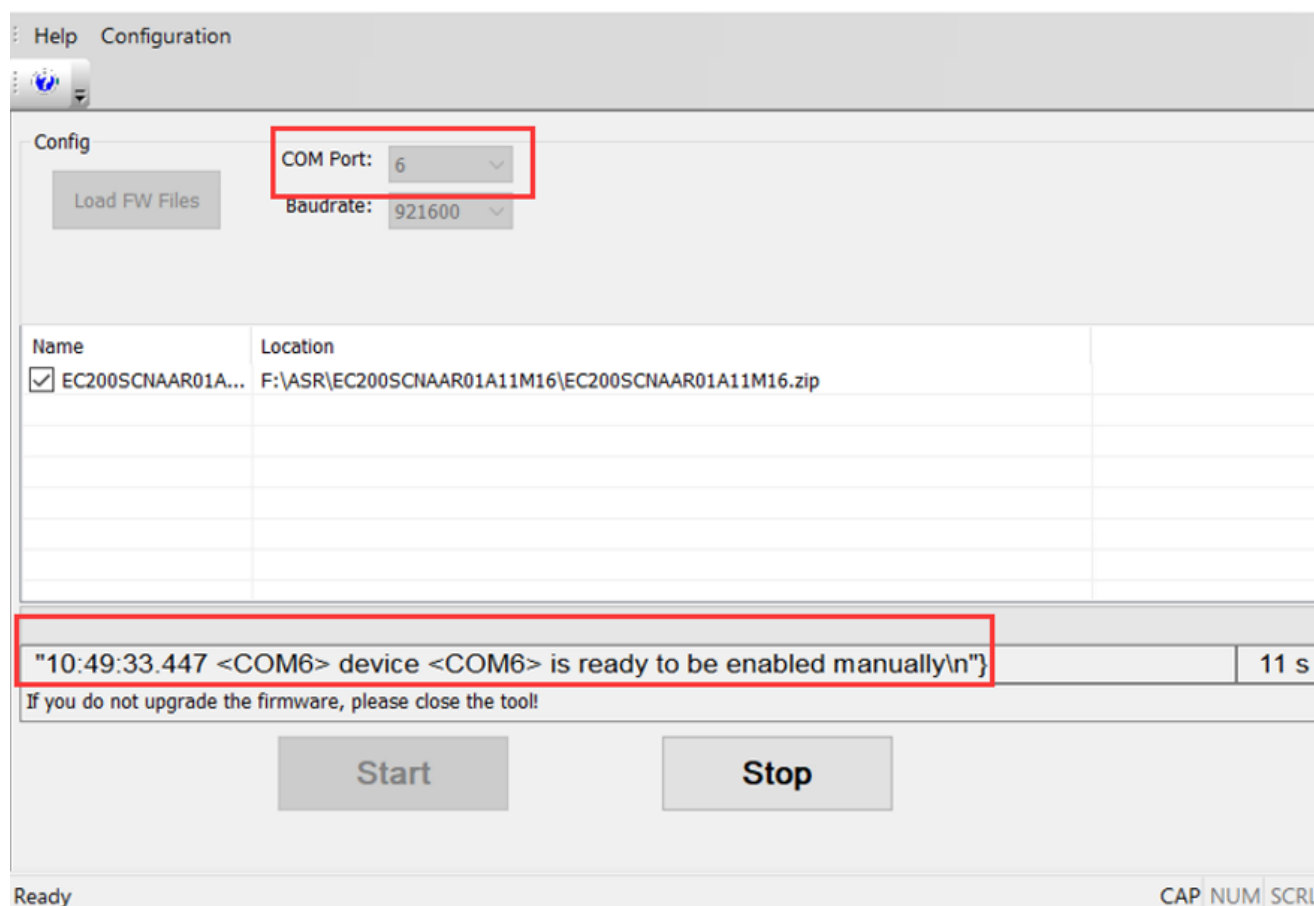


Figure 8: Select Quectel Download Port for EC200S/EG912Y

NOTE

For EC200S and EG912Y, you can get Quectel Download Port loaded for upgrade by short-circuiting BOOT to PL_1V8. Also, you can first select the .zip firmware package, and then manually power on the module to directly get Quectel Download Port loaded.

For EG060W/EC200A, select the .zip firmware package, and then click the “**Start**” button. After this, manually power on the module to automatically select Quectel USB Download Port for upgrade.

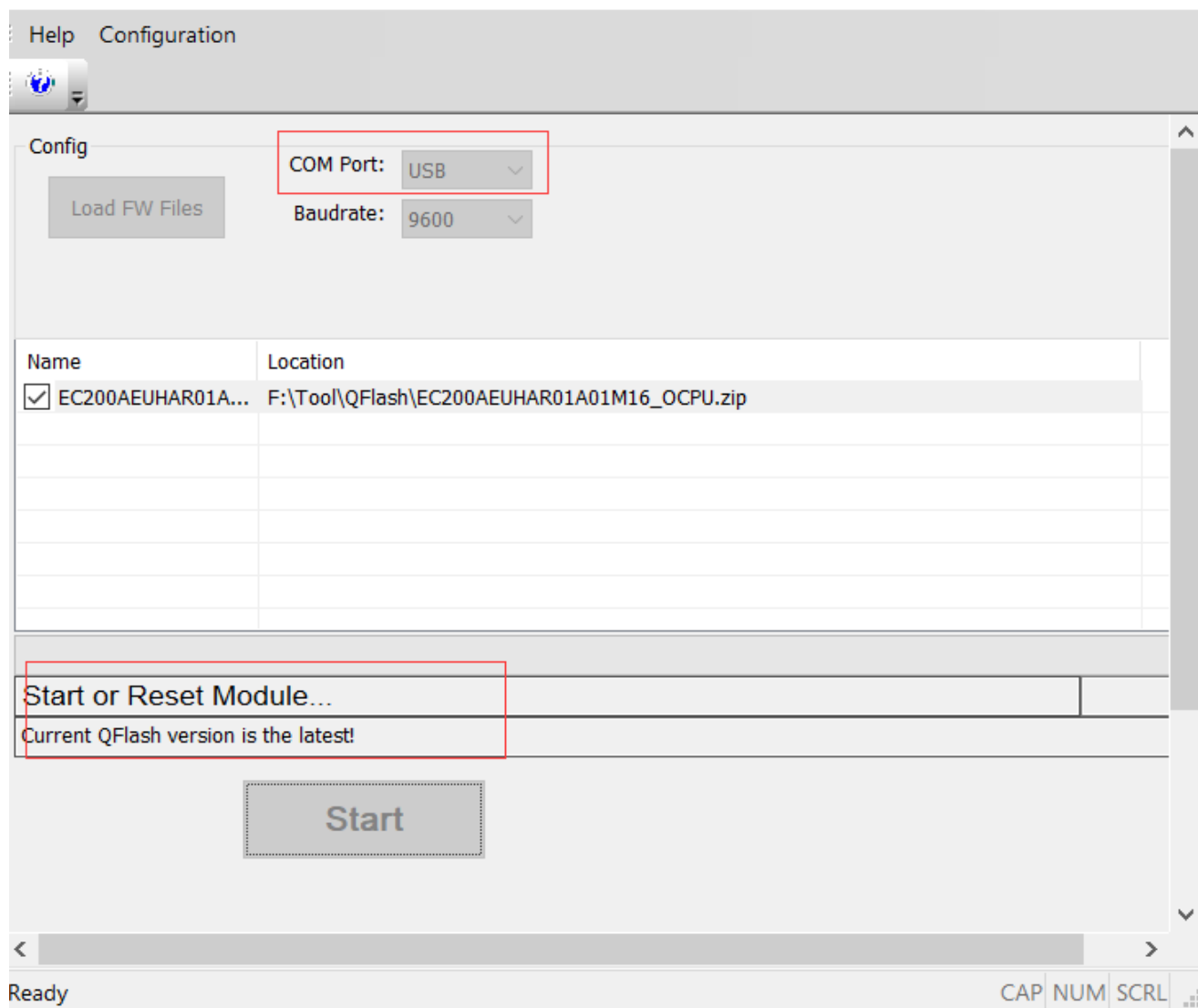


Figure 9: Automatically Select Quectel USB Download Port for EG060W/EC200A

2.1.1.5. COM Port Selection for AG509M/AG519M

For AG509M/AG519M module, turn on the USB_BOOT switch, and then only the Android ADB interface will be loaded. Therefore, port selection is unnecessary for firmware upgrade of AG509M/AG519M with QFlash.

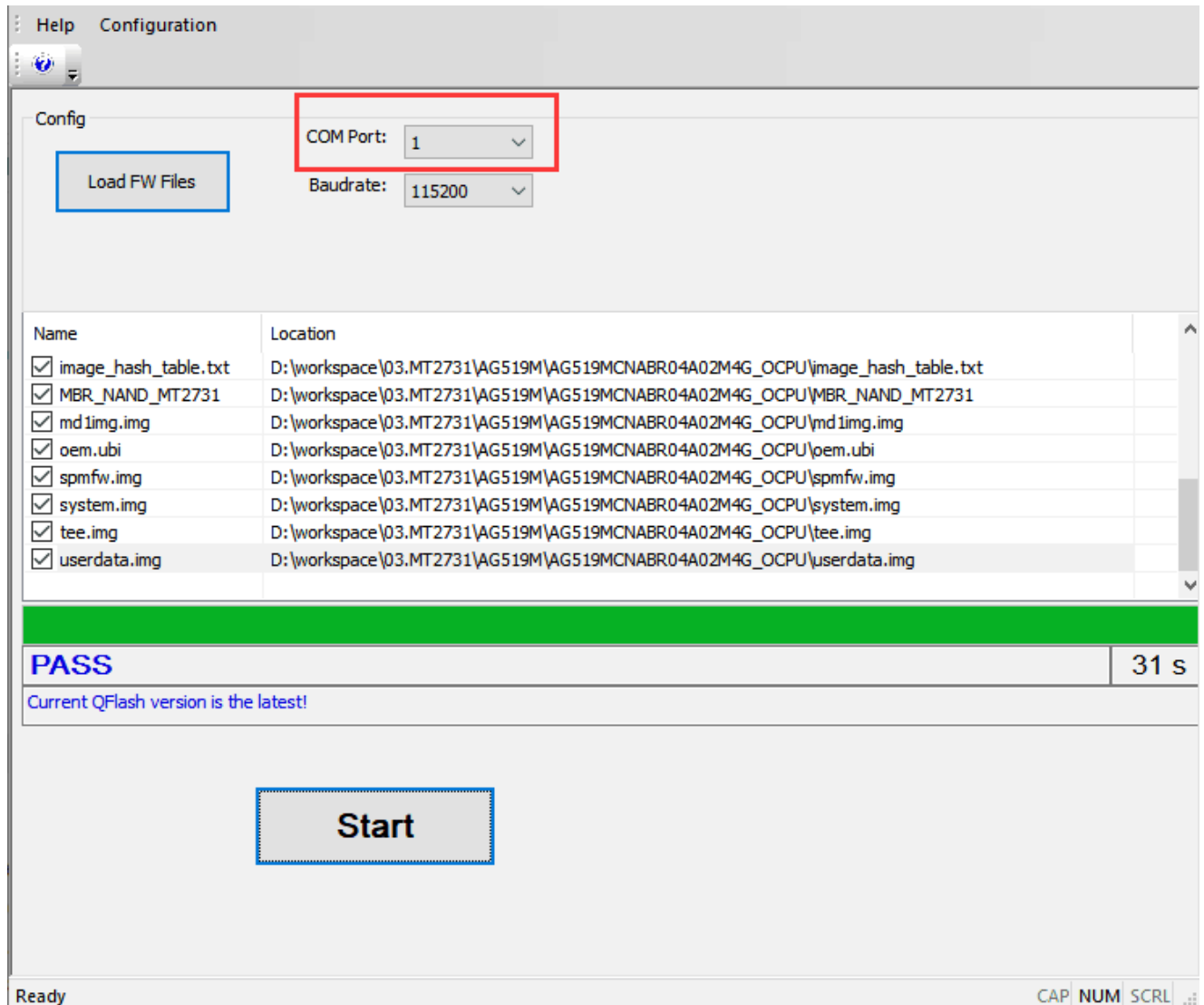


Figure 10: Port Selection is Unnecessary for AG509M/AG519M

NOTE

It is only supported by 64-bit systems to download the firmware package into this module.

2.1.1.6. COM Port Selection for SCxx/SC668S/SG560D

For SCxx, SC668S and SG560D, the HS-USB Diagnostics 9091 port can be used for firmware upgrade. Click “**COM Port**” drop-down list and select the HS-USB Diagnostics 9091 port for upgrade, as shown in the following figure.

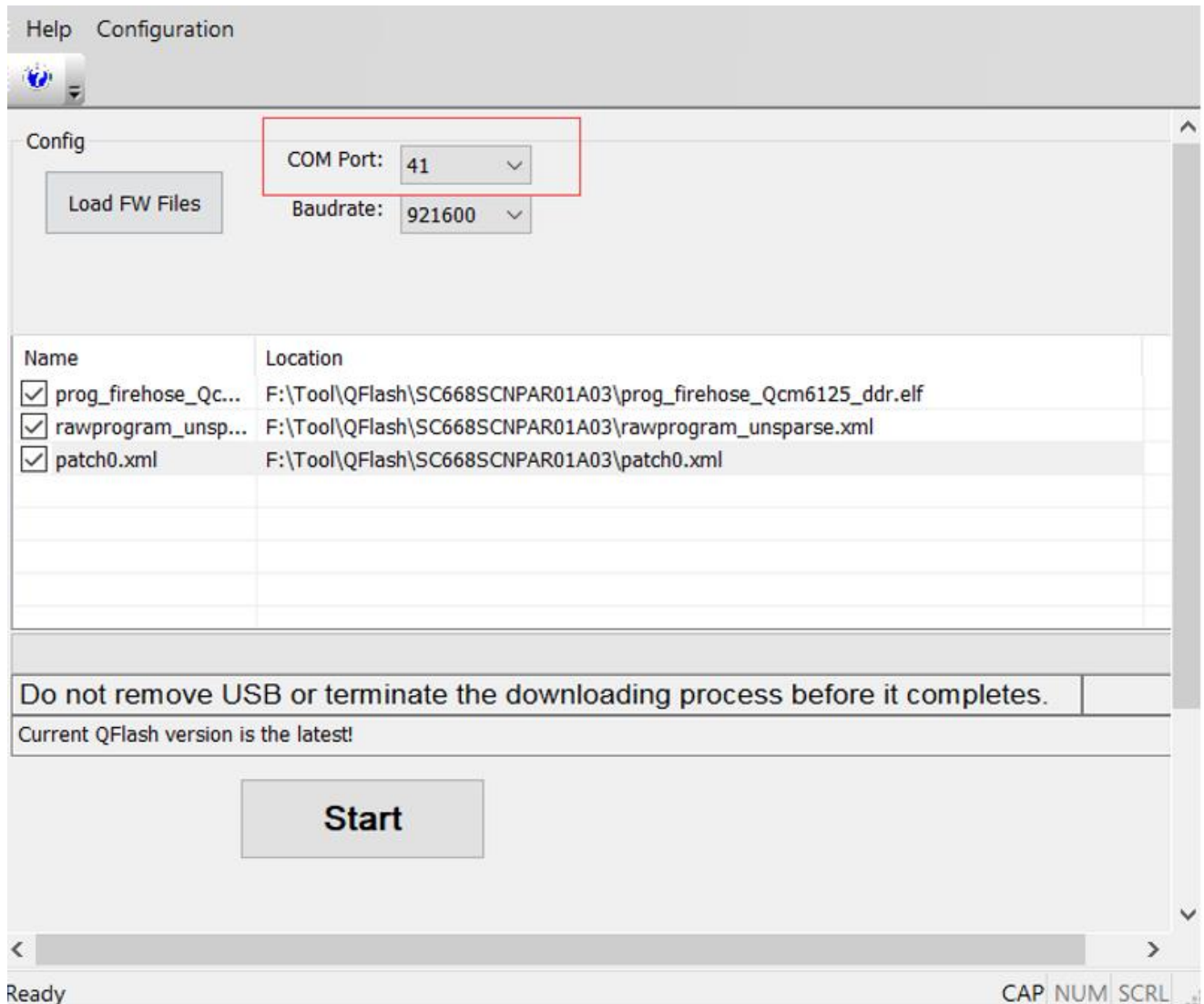


Figure 11: Select the HS-USB Diagnostics 9091 Port for SCxx/SC668S/SG560D

2.1.1.7. COM Port Selection for BCxx/BC660K/BC950K/Mxx

Click “**COM Port**” drop-down list to select the COM port through which the firmware will be upgraded, as shown in the following figure.

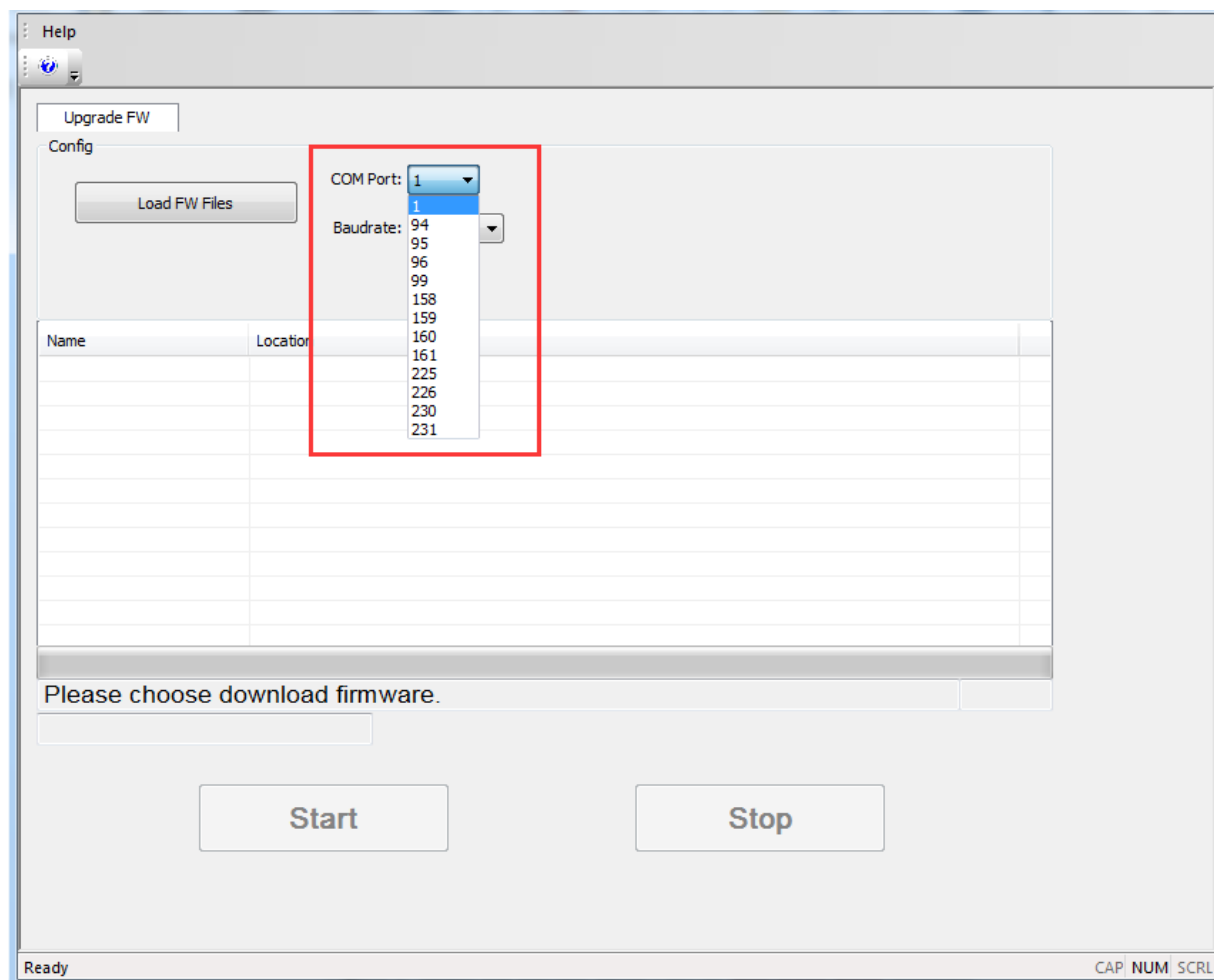


Figure 12: Select the Correct Serial Port for BCxx/BC660K/BC950K/Mxx Modules

NOTE

1. For BC92 module, the Debug port (USB Serial Converter B) on TE-B is used to upgrade firmware. After the port is selected, please click the “**Start**” button to upgrade.
2. For BC66 module, the USB UART Ch A is used to upgrade firmware. 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.
3. For BC660K module, the first USB Serial Port is used to upgrade firmware. After the port is selected, press and hold the BOOT pin during module reset until the module enters the download mode, and then click the “**Start**” button to upgrade.
4. For BC950K module, WCH USB-SERIAL CH A port is used to upgrade the firmware. After selecting the port, click the “**Start**” button, wait for the prompt “**Probe...**” before manually restarting

the module.

5. For M66, M95 or MC60, the main UART is used to upgrade firmware. After the port is selected, switch the D/L to “**ON**” on EVB within 30 seconds after clicking “**Start**” button, and then manually restart the module.
6. For M65 module, the USB port is used to upgrade firmware. After the port is selected, please click the “**Start**” button and then the module will be automatically restarted.
7. For FC41D/FCM100D module, the main UART is used to upgrade firmware. After the port is selected, please click the “**Start**” button and wait for the prompt “**Erasing Flash...**”, and then manually restart the module.

2.1.1.8. COM Port Selection for BG770A/BG950A

For BG770A/BG950A, the debug UART is used for firmware upgrade, and the name of the loaded port on PC is Silicon Labs CP210x USB to UART Bridge.

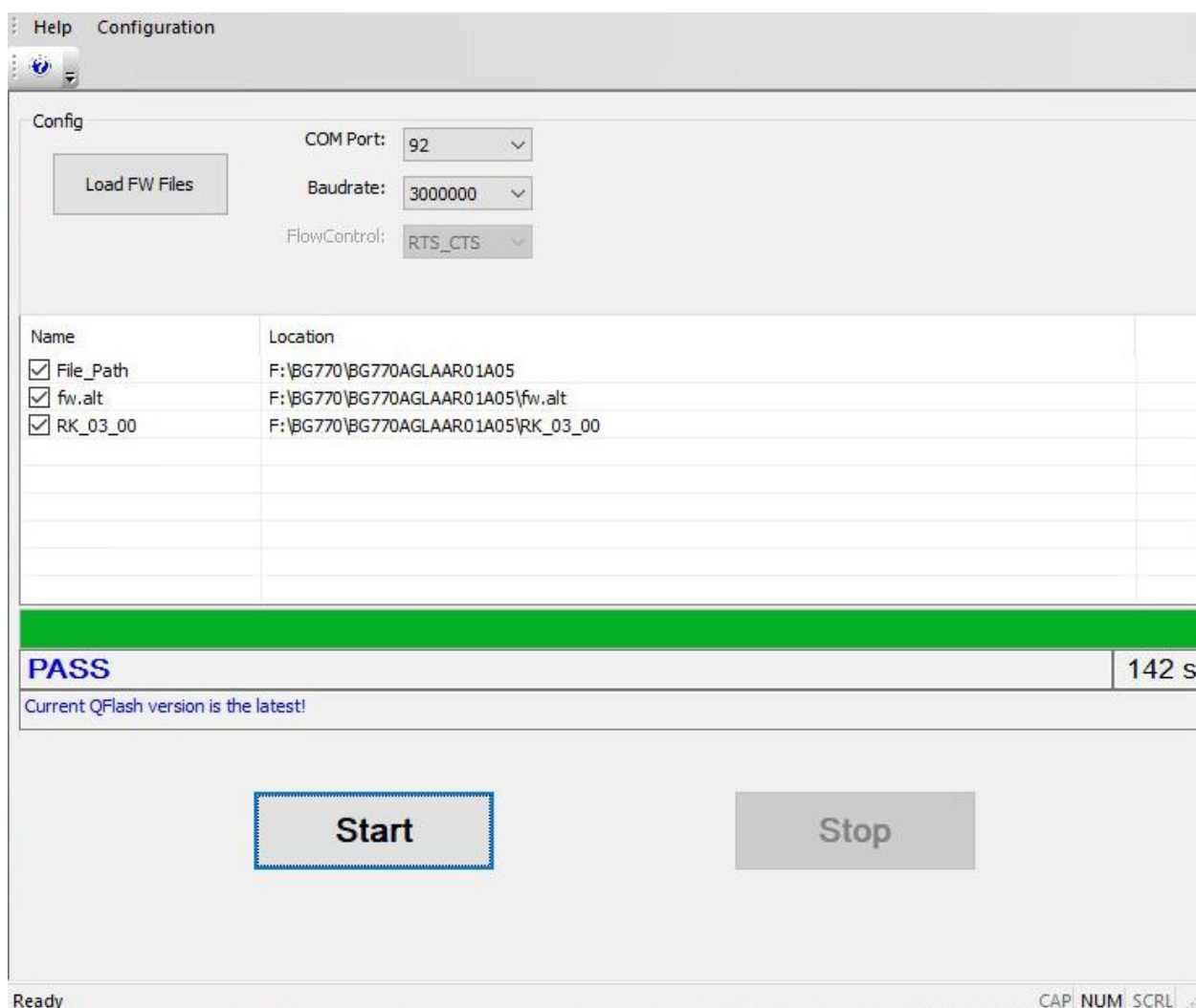


Figure 13: Select the Silicon Labs CP210x USB to UART Bridge Port for BG770A/BG950A

2.1.1.9. COM Port Selection for BG951A

The BG951A module is upgraded using UART_CLI and UART_GNSS ports, whose names are both displayed as "Silicon Labs CP210x USB to UART Bridge" after the module is connected to the PC.

Click “**COM Port**” drop-down list and select the UART_CLI port number; then click “**GPS Port**” drop-down list and select the UART_GNSS port number.

Help Configuration

Config

Load FW Files

COM Port: 7

Baudrate: 3000000

GPS Port: 10

FlowControl: RTS_CTS

Name	Location
<input checked="" type="checkbox"/> File_Path	F:\BG951\BG951AGLAAR01A03
<input checked="" type="checkbox"/> fw.alt	F:\BG951\BG951AGLAAR01A03\fw.alt
<input checked="" type="checkbox"/> RK_03_00	F:\BG951\BG951AGLAAR01A03\RK_03_00
<input checked="" type="checkbox"/> use_bin	F:\BG951\BG951AGLAAR01A03\USER_BIN
<input checked="" type="checkbox"/> Ebin1	F:\BG951\BG951AGLAAR01A03\cxd5605AGF_20296_55c6322_186LBGEF.ebin1
<input checked="" type="checkbox"/> Ebin2	F:\BG951\BG951AGLAAR01A03\cxd5605AGF_20296_55c6322_186LBGEF.ebin2
<input checked="" type="checkbox"/> Ebin3	F:\BG951\BG951AGLAAR01A03\cxd5605AGF_20296_55c6322_186LBGEF.ebin3
<input checked="" type="checkbox"/> Ebin4	F:\BG951\BG951AGLAAR01A03\cxd5605AGF_20296_55c6322_186LBGEF.ebin4

PASS 264 s

Current QFlash version is the latest!

Start

Ready CAP NUM SCRL

Figure 14: Select Silicon Labs CP210x USB to UART Bridge Port for BG951A

2.1.2. Set Baud Rate

Click the “**Baudrate**” drop-down list and select an appropriate baud rate, as shown in the following figure.

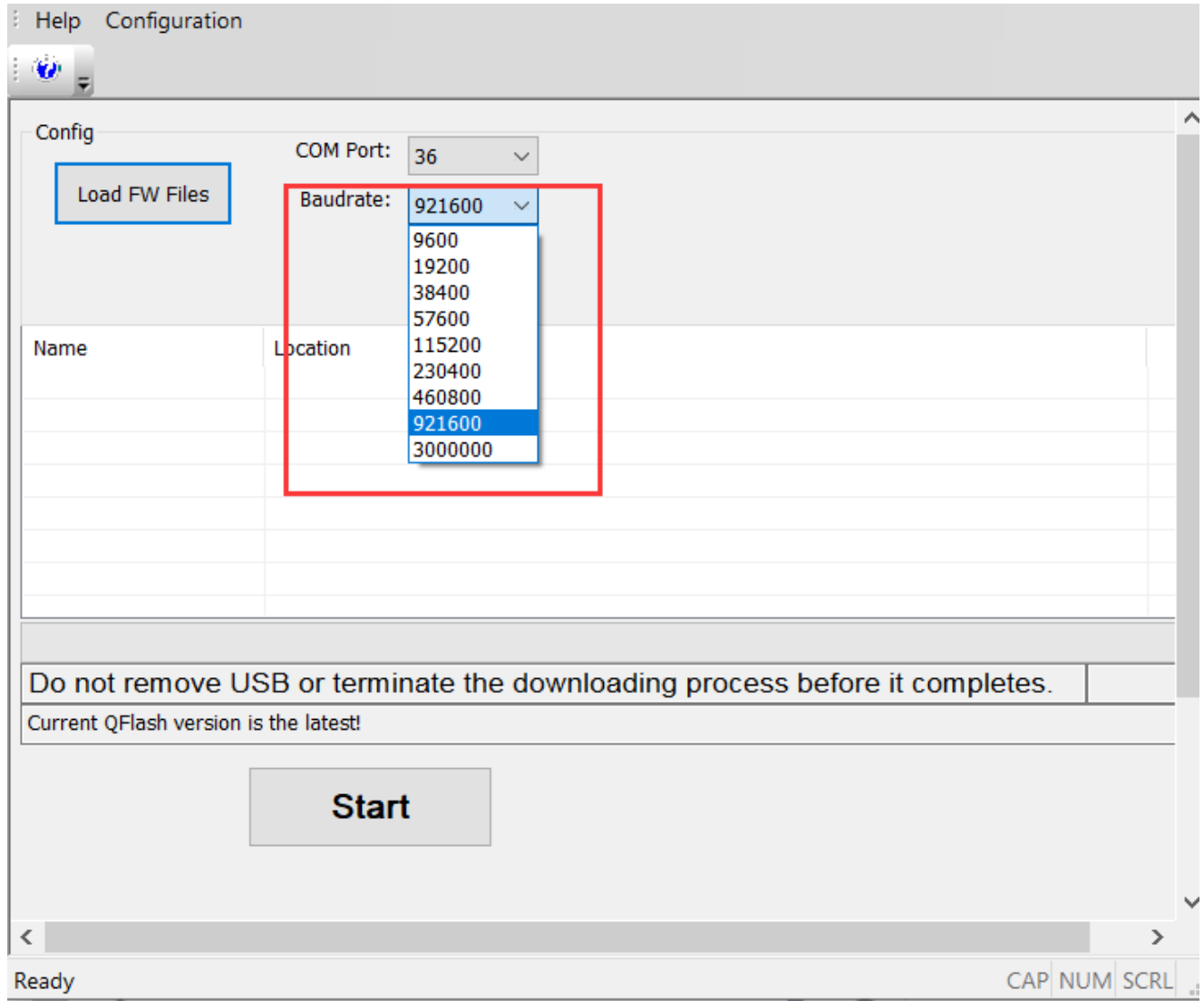


Figure 15: Select the Baud Rate

NOTE

1. Baud rate setting is unnecessary for virtual USB port.
2. There are different baud rate values to be selected and the hardware environment determines whether a specified baud rate can be supported. If the baud rate is not supported, an error message will be returned.
3. Please set baud rate to 921600 when upgrading firmware for BC660K, BC950K or M65 modules, 9600 for other BCxx modules, and 460800 for other Quectel modules. Other baud rates may lead to an upgrading failure.

2.2. Load Firmware Files and APP Firmware

2.2.1. Load Firmware Files

The steps in this chapter are performed to load firmware files for standard and QuecOpen modules.

NOTE

The storage paths of the firmware files have to be local paths instead of USB or network paths. The paths should NOT contain any spaces, and English characters are preferred.

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

Step 2: Select the Bootloader_xxx.bin, .txt, .cfg, .mbn, .lod, .fls, .fwpkg, .pac, .zip, .bin, .bat, .elf, fw.alt, .mimgx, .xml or .py file which needs to be downloaded to the module.

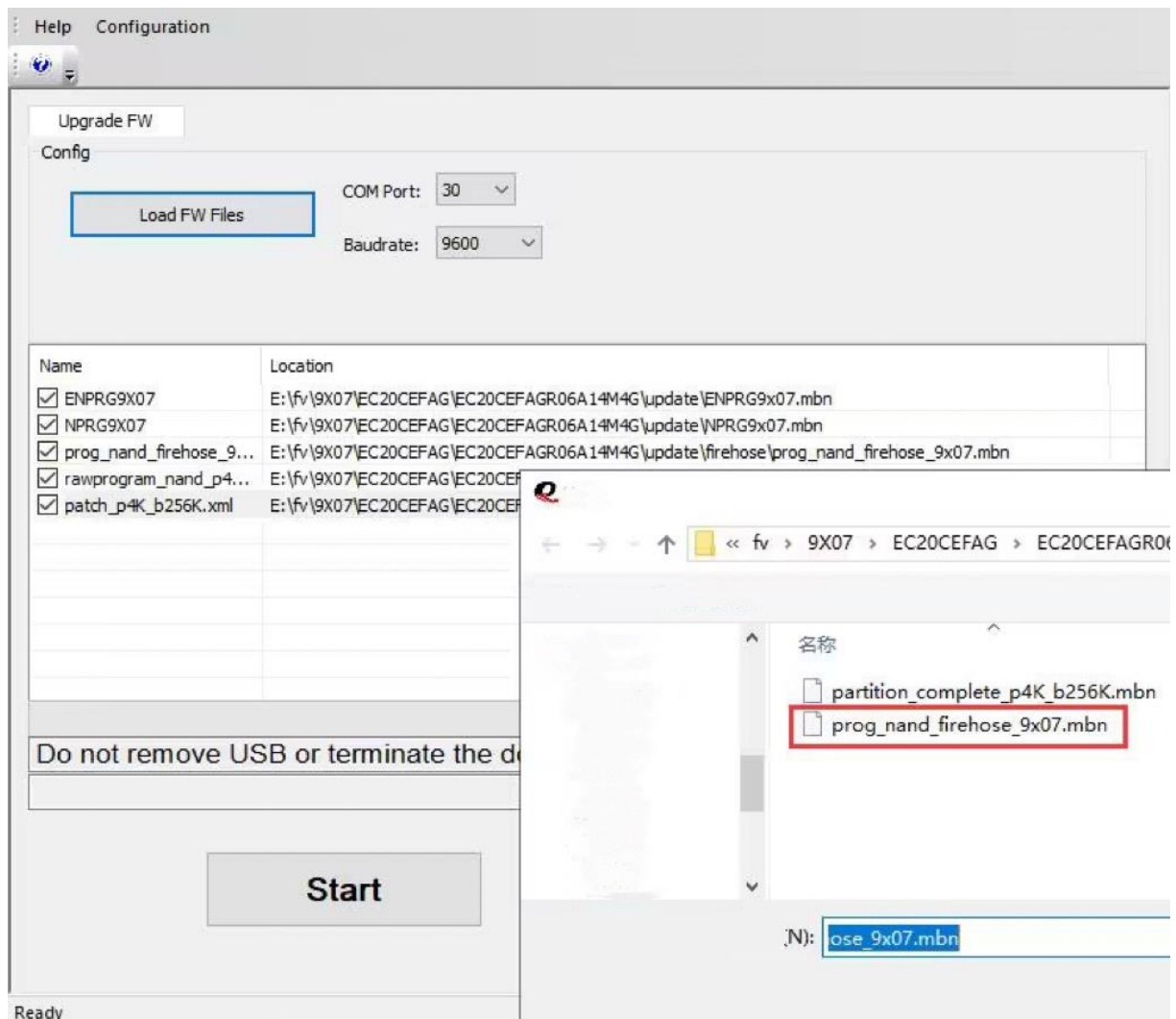


Figure 16: Select the File to Be Downloaded (Standard or QuecOpen® Modules)

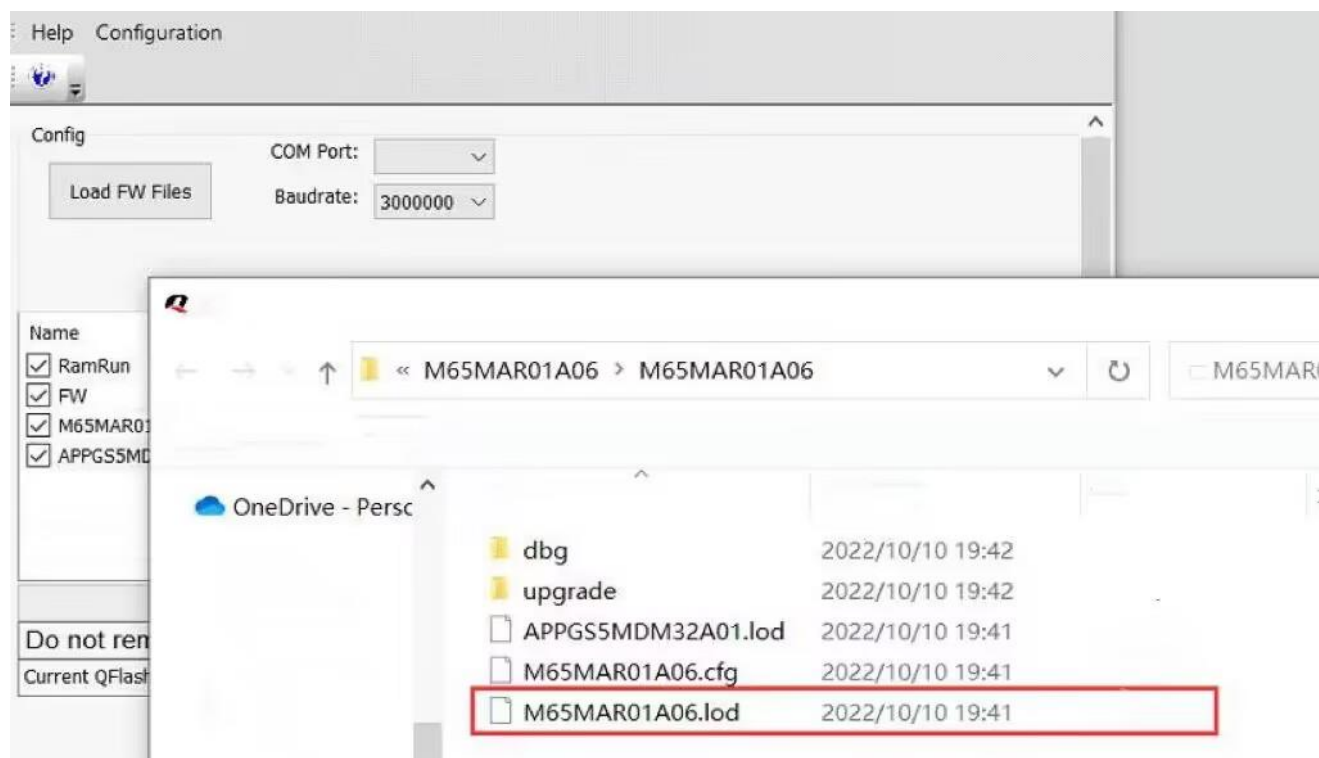


Figure 17: Select the File to Be Downloaded (QuecOpen® Modules)

NOTE

1. When *Firehose* folder exists in the firmware package, the firmware will be upgraded in Firehose mode by default. To upgrade in Sahara mode, please select "**Sahara only**" under "**Configuration**" in the menu bar. The upgrade will be processed in Sahara mode by default if there is no *Firehose* folder in the firmware package.
2. For RG200U/RG500U/RM500U/EC200U, select the .pac file.
3. For RG500L, select the .xml file.
4. For Rx500Q/AG590E select the .mbn file.
5. For Rx520N/RG525F/AGxx/AG52xR/AG55xQ/SCxx/SC668S/SG560D/SG865W, select the .elf file.
6. For EG060W/EC200A/EC200S/EG912Y, select the .zip file directly.
7. For AG509M/AG519M, select the .py file.
8. For BC92, select the .lod file.
9. For BC660K/BC950K/FC41D/FCM100D, select the .bin file.
10. For BG770A/BG950A/BG951A, select the fw.alt file.

2.2.2. Load APP Firmware for QuecOpen® Modules

The steps in this chapter are performed to load APP firmware for QuecOpen modules.

NOTE

The storage paths of the APP firmware files have to be local paths instead of USB or network paths. The paths should NOT contain any spaces, and English characters are preferred.

2.2.2.1. Load APP Firmware for M66/MC60 QuecOpen®

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

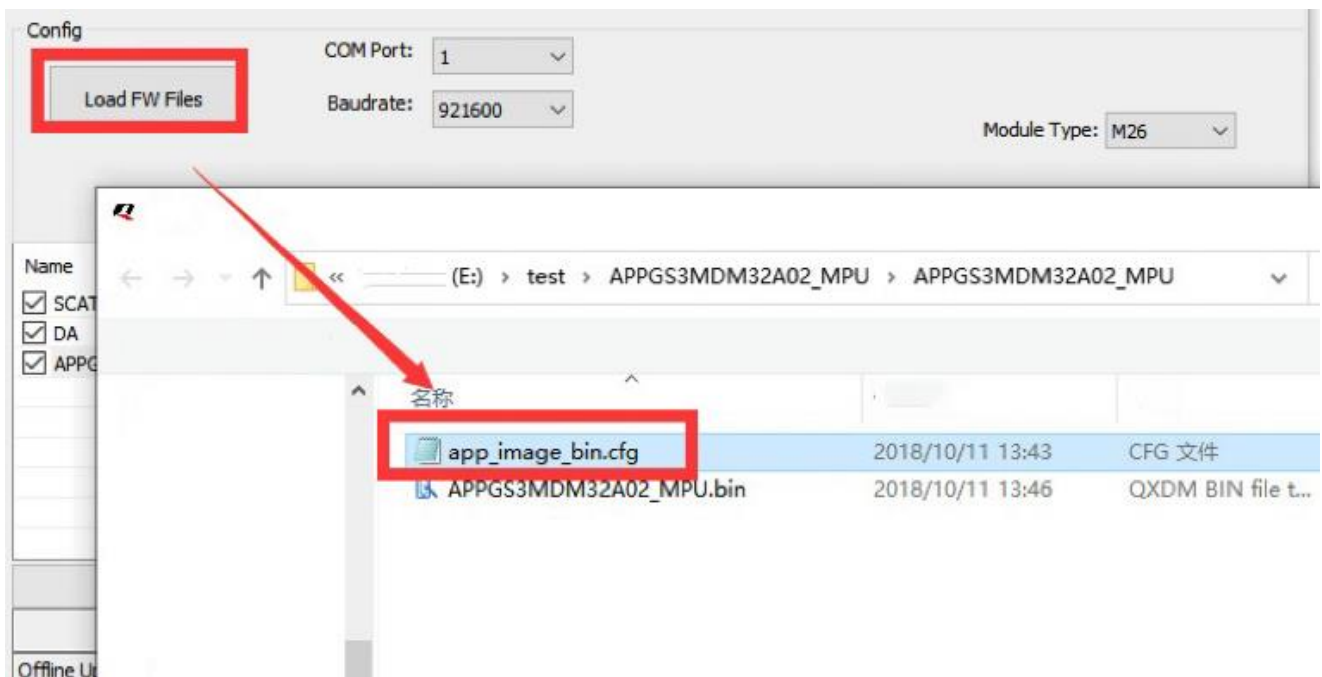


Figure 18: Select the .cfg File

Step 2: Click the “**Module Type**” drop-down list and select the corresponding module.

The screenshot shows the QFlash Configuration window. At the top, there are tabs for 'Help' and 'Configuration'. Below the tabs, there is a 'Config' section with a 'Load FW Files' button, a 'COM Port' dropdown set to '1', and a 'Baudrate' dropdown set to '921600'. To the right of these settings is a 'Module Type' dropdown menu that is currently open, displaying a list of modules: M10 R3.0, M50 R2.0, M85 R2.0, M26, M36, M56, M66 FA, M66 FB, MC20, MC60 (which is highlighted), and M36 FC. Below the configuration section is a table with two columns: 'Name' and 'Location'. The table contains three rows of data, all of which are checked with a checkbox in the 'Name' column. The first row is 'SCAT' with location 'E:\test\APPGS3MDM32A02_MPU\APPGS3MDM32A02_MPU\app_image_bin.cfg'. The second row is 'DA' with location 'D:\code\QFlash\QFlash_V6.2-Code-20221103\MT\MTK_AllInOne_DA.bin'. The third row is 'APPGS3MDM32A02_M...' with location 'E:\test\APPGS3MDM32A02_MPU\APPGS3MDM32A02_MPU\APPGS3MDM32A02_MPU.bin'. Below the table, there is a status bar that says 'Current QFlash version is the latest!'. At the bottom of the window, there are two large buttons: 'Start' and 'Stop'. The bottom-most status bar shows 'Ready' on the left and 'CAP NUM SCRL' on the right.

Name	Location
<input checked="" type="checkbox"/> SCAT	E:\test\APPGS3MDM32A02_MPU\APPGS3MDM32A02_MPU\app_image_bin.cfg
<input checked="" type="checkbox"/> DA	D:\code\QFlash\QFlash_V6.2-Code-20221103\MT\MTK_AllInOne_DA.bin
<input checked="" type="checkbox"/> APPGS3MDM32A02_M...	E:\test\APPGS3MDM32A02_MPU\APPGS3MDM32A02_MPU\APPGS3MDM32A02_MPU.bin

Figure 19: Select the Module Type

2.2.2.2. Load APP Firmware for M65 QuecOpen®

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

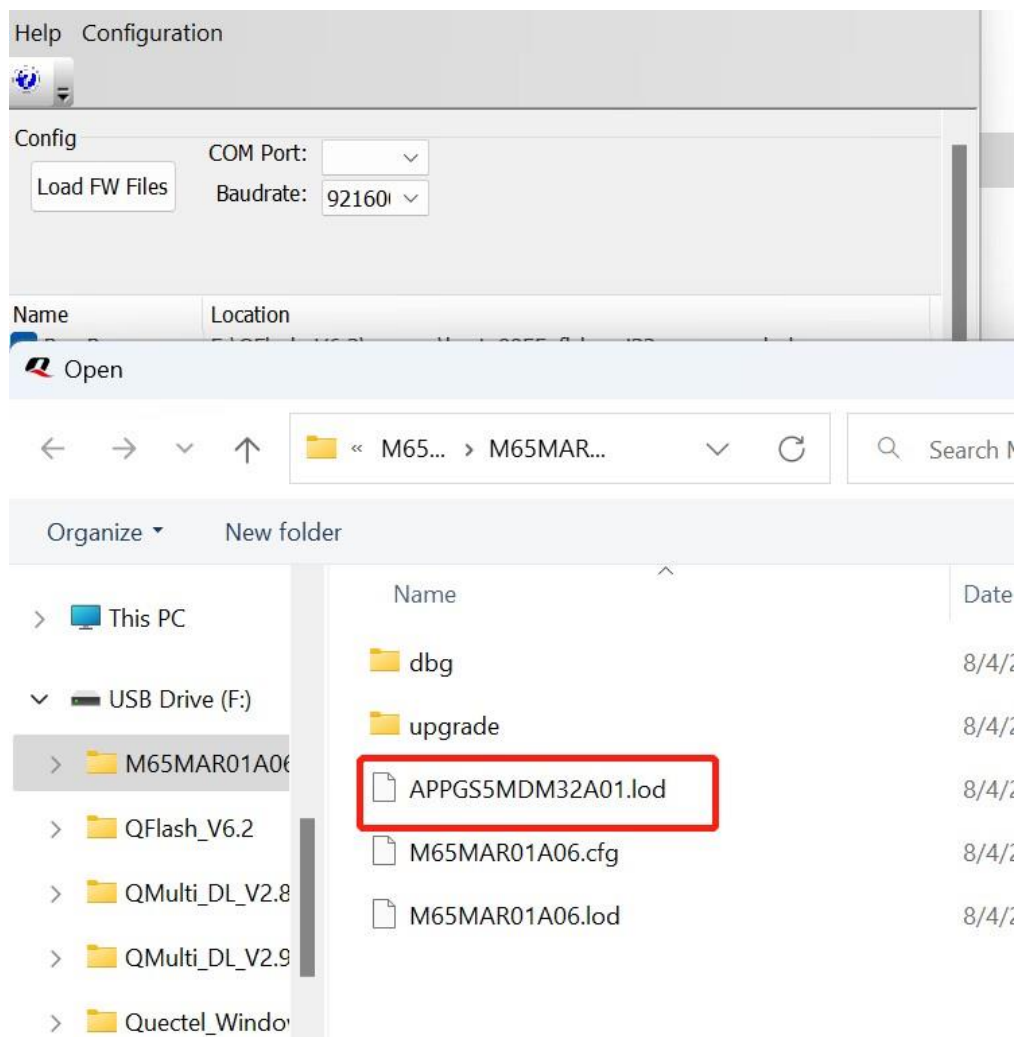


Figure 20: Select the .lod File

2.3. Upgrade Firmware

Step 1: Click the “Start” button.

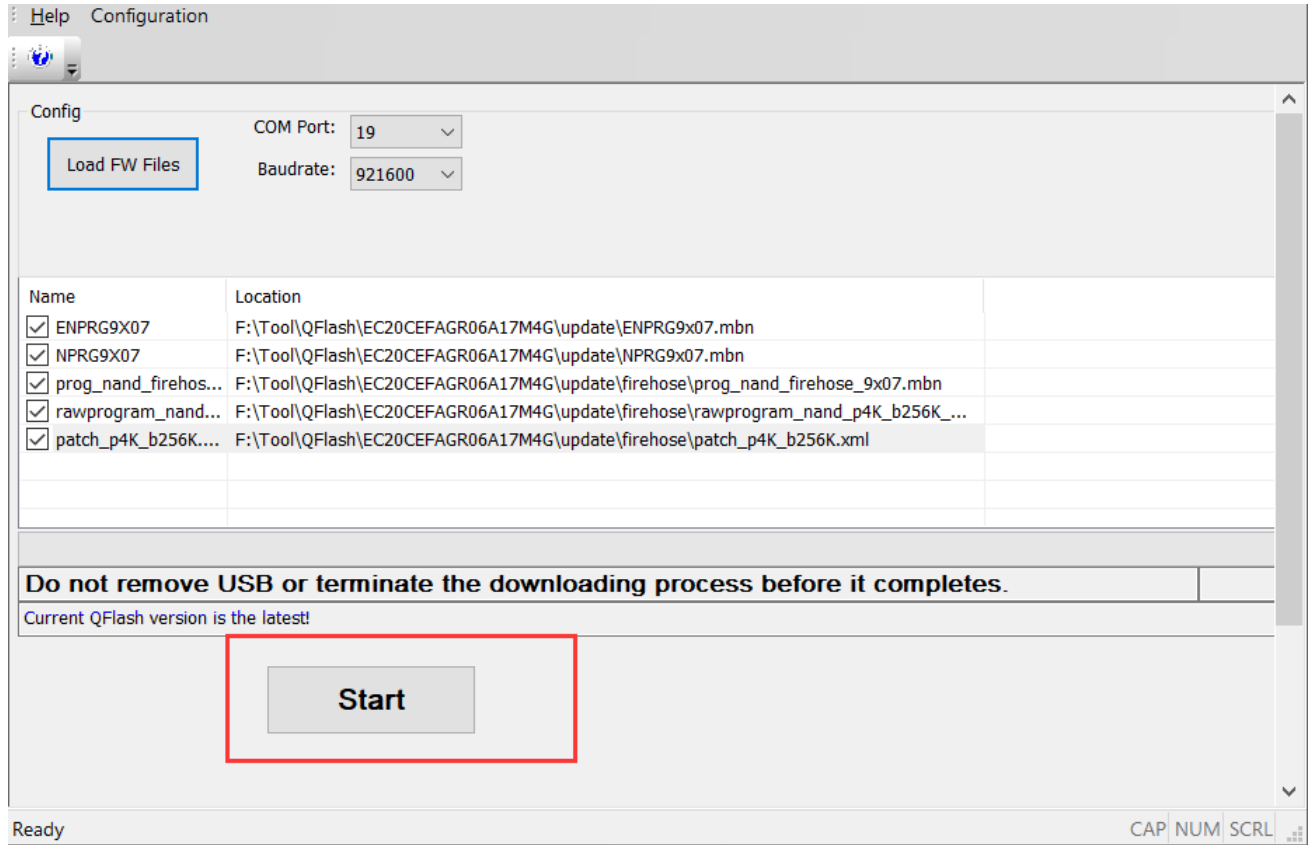


Figure 21: Click the “Start” Button

NOTE

1. Please note that there is no “Stop” button while upgrading firmware for Ex06, Ex12, EG18, EC2x, EG2x-G, EG9x, EM05, AGxx, AG52xR, AG55xQ, SCxx, BCxx, BC660K, BC950K, BG96, as shown above. In this case, it is NOT permitted to stop the upgrading process, and please do NOT remove the USB or terminate the downloading process before the upgrading is completed.
2. When *Firehose* folder exists in the firmware package, the firmware will be upgraded in Firehose mode by default. To upgrade in Sahara mode, please select “Sahara only” under “Configuration” in the menu bar. The upgrade will be processed in Sahara mode by default if there is no *Firehose* folder in the firmware package.
3. If the upgrade in Firehose mode fails after many attempts, please try again after turning off or uninstalling your anti-virus software and firewall.

Step 2: Restart the module to enable firmware upgrade.

(1) RG200U, RG500U, RM500U, Rx500Q, Rx520N, RG525F, Ex06, Ex12, EG18, EC2x, EG2x-G, EG9x, EM05, EC200U, EC200S, EG912Y, AGxx, AG52xR, AG55xQ, SCxx, SC668S, SG865W, SG560D, BC92, BGxx and M65 modules will be restarted automatically after clicking the **“Start”** button, so there is no need to restart the modules manually. See the following figure.

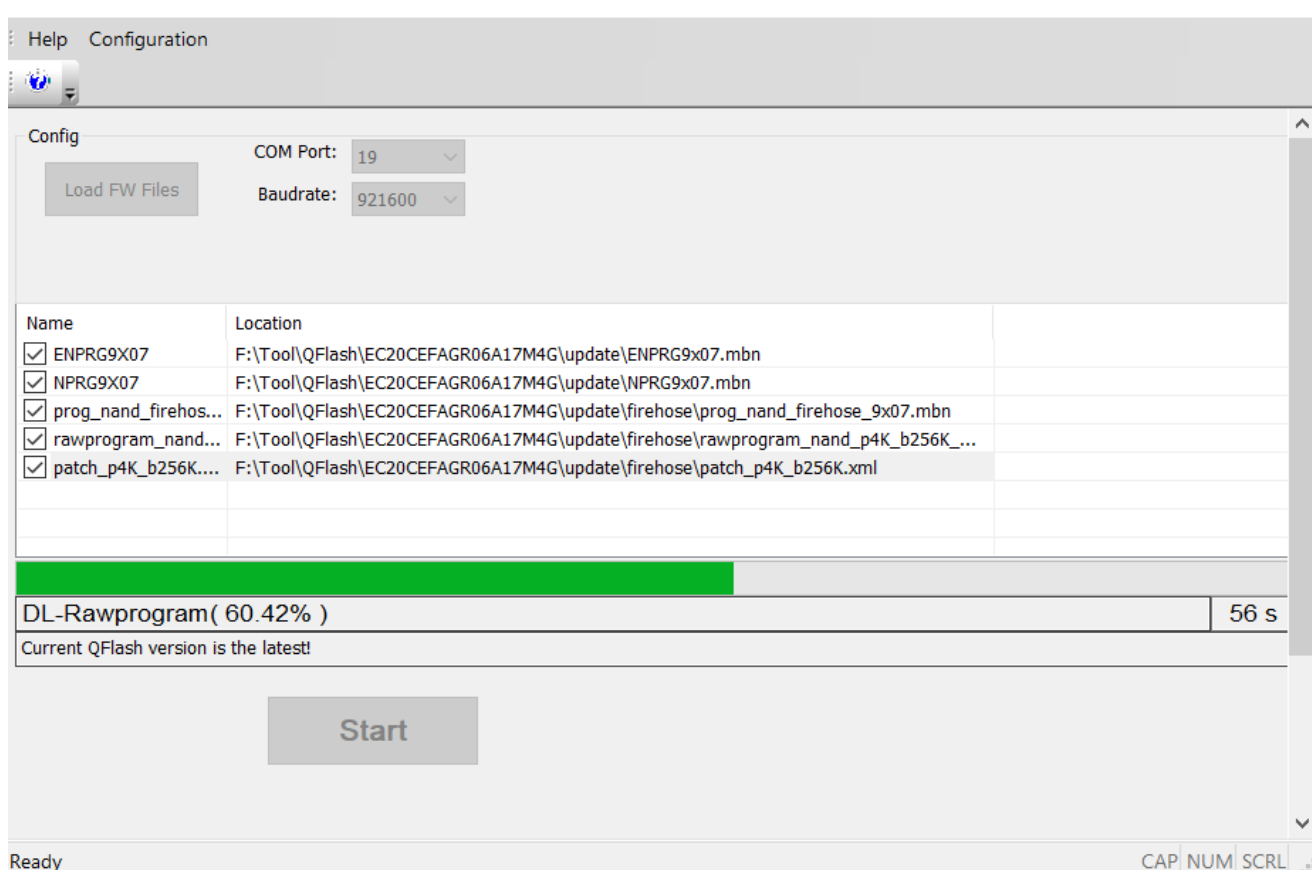


Figure 22: Start Firmware Upgrade Automatically After Clicking “Start” Button

NOTE

1. For Rx500Q, RG500U, Rx520N, RG525F, Ex06, Ex12, EG18, EC2x, EG2x-G, EG9x, EM05, AGxx, AG52xR, AG55xQ, SCxx, SG865W, BC92, BG96 and M65, if there is no EVB for module firmware upgrade, please drive the PWRKEY pin to a low level after clicking the **“Start”** button in 30 seconds.
2. AG509M/AG519M only supports firmware upgrading on 64-bit operating system.
3. For BG951A, it is necessary to enable the GNSS function and make it enter the emergency download mode before the upgrading.
4. RM520N supports firmware upgrading by PCIe interface.

- (2) For EG060W/EC200A, after clicking the **"Start"** button, manually power on the module to automatically select Quectel USB Download Port for upgrade.
- (3) For AG509M, AG519M, BG770A, BG950A and BG951A, the module needs to be turned off before **"Start"** is clicked. After clicking **"Start"**, please turn on the module within 10 seconds. BG950A and BG951A first perform the power-on operation first, and manually reset the module according to the tool prompt to upgrade.
- (4) For BC950K modules, click the **"Start"** button, wait for the prompt **"Probe"** before manually restarting the module.
- (5) For FC41D/FCM100D module, please wait for the prompt **"Erasing Flash..."** after clicking the **"Start"** button, and then manually restart the module.
- (6) For RG500L, M66, M95, or MC60, switch the D/L to **"ON"** on EVB within 30 seconds after clicking **"Start"** button, and then manually restart the module. In this way, the firmware upgrade will be started, as shown in the following figure.

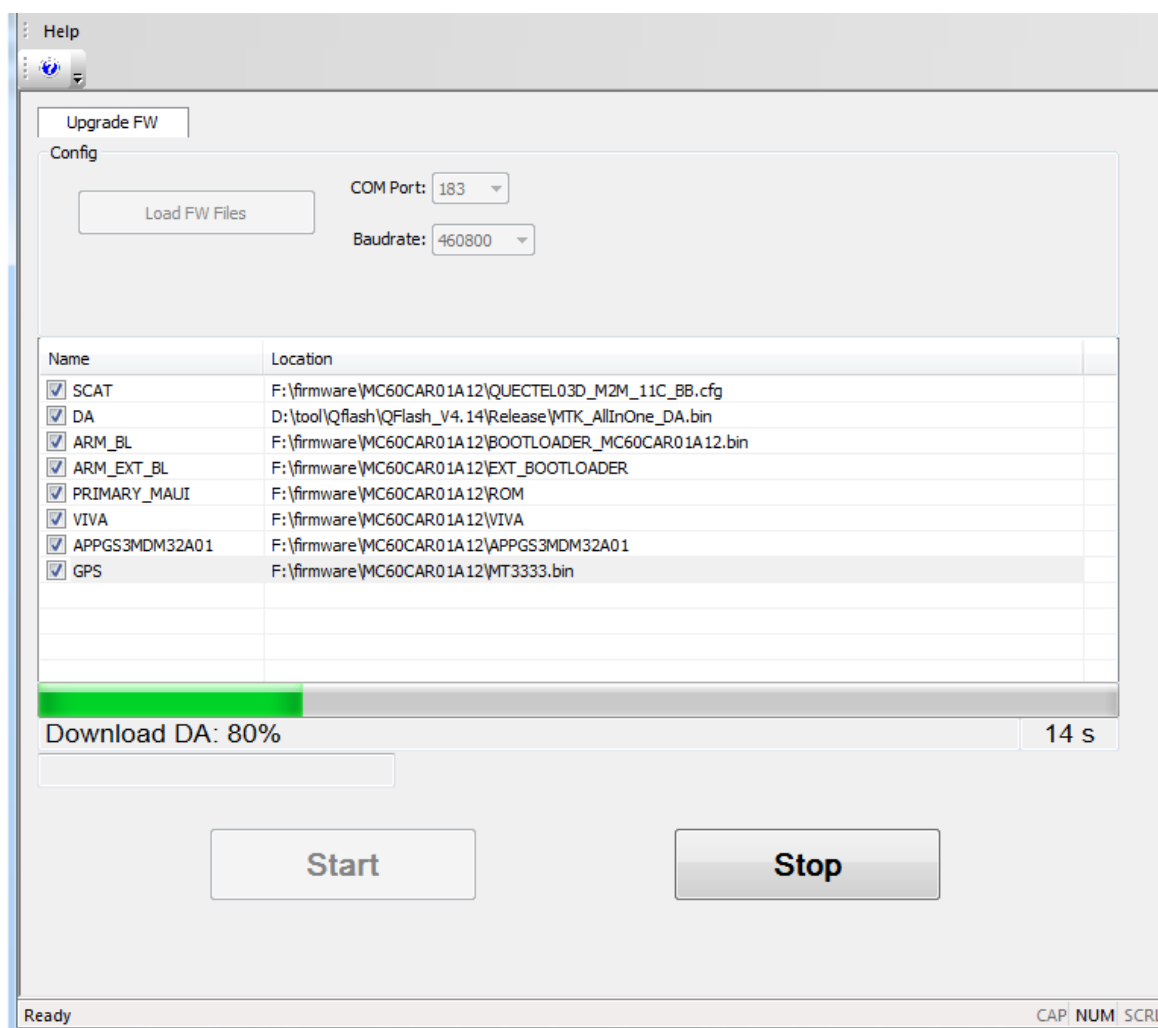


Figure 23: Start Firmware Upgrade after Manually Restarting the Module (M66/M95/MC60)

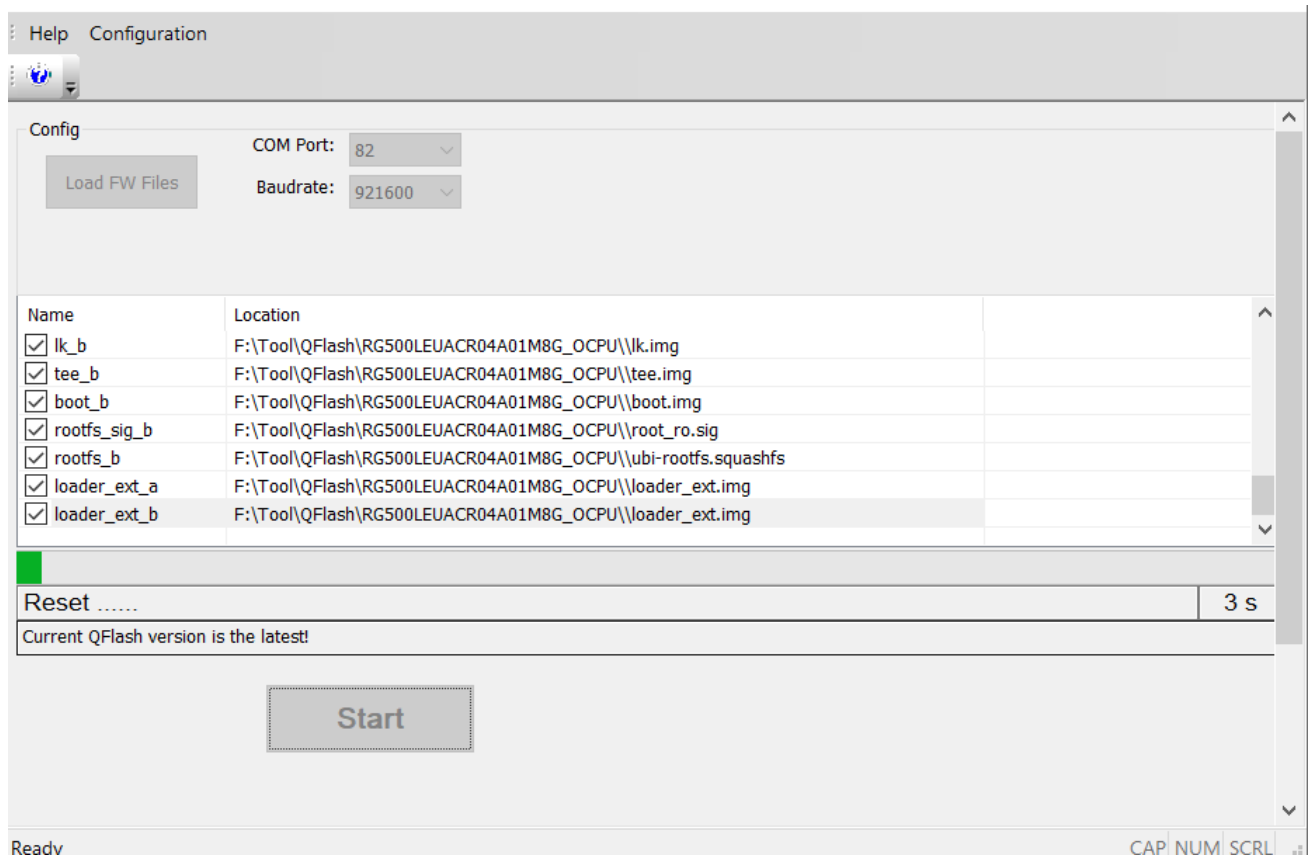


Figure 24: Start Firmware Upgrade after Manually Restarting the Module (RG500L)

NOTE

- For M66/M95/MC60, make sure the EVB is powered by a 5 V power supply when switching the D/L to "ON", and then manually restart the module.
- For RG500L, start the module, click "**Start**", wait for the "**Reset**" message, and restart the module

- For the firmware upgrade of BC66 modules through TE-B, please wait for the prompt "[INFO]Start connect with target, Please reset DUT..." or "Reset" after clicking the "**Start**" button, and then manually restart the modules.
- For BC660K module, before clicking the "**Start**" button to upgrade, press and hold the BOOT pin during module reset until the module enters the download mode. After clicking "**Start**", the module will start upgrade automatically.
- For BG951A module, GNSS BOOT pin is set to "**HIGH**" and GPS PWR EN pin is set to "**ON**" before upgrading. Click the "**Start**" button and follow the tooltips.

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

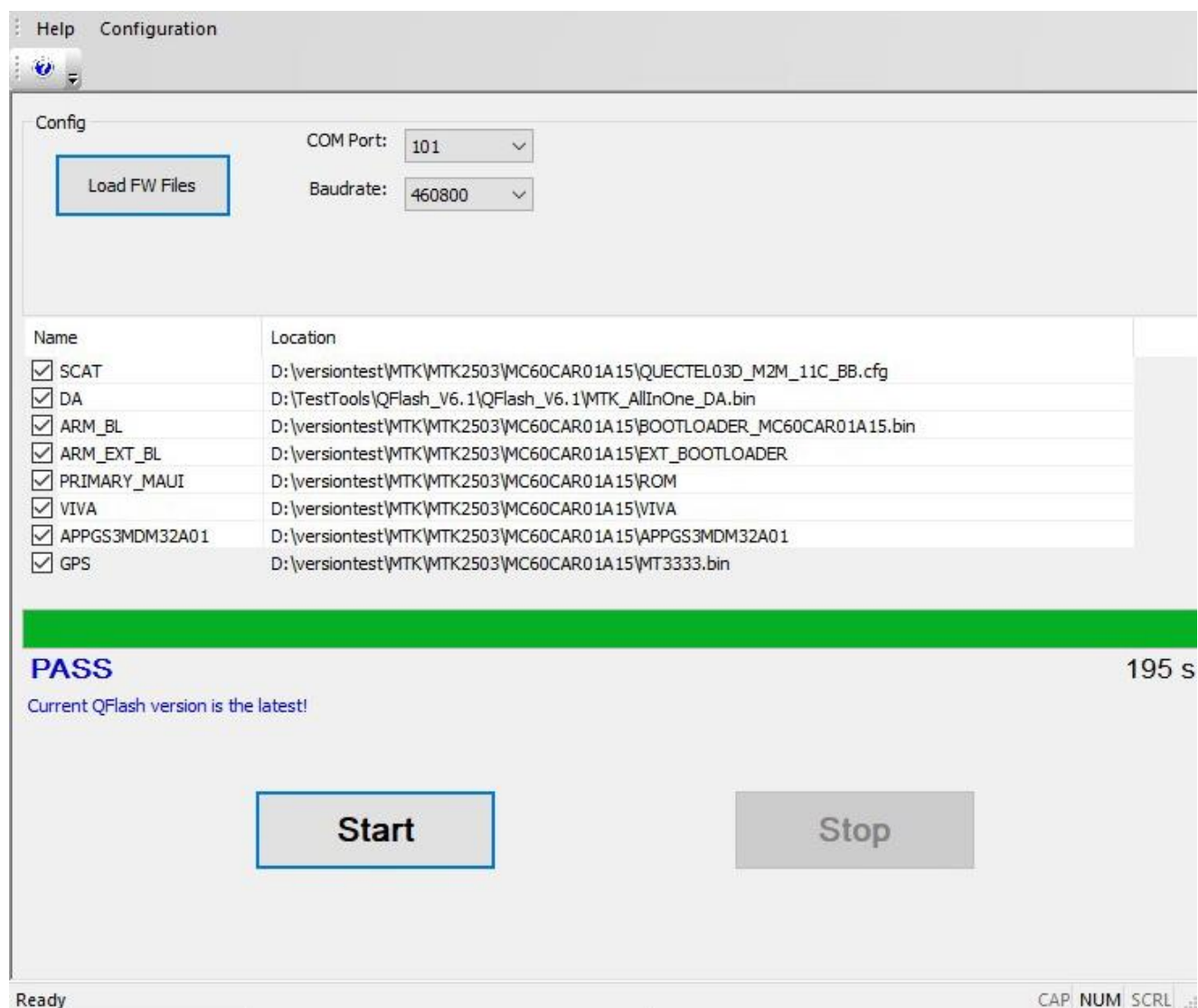


Figure 25: Firmware Upgraded Successfully

2.4. MBN Function

Currently QFlash only supports MBN upgrade function for BG96. The operation procedure is as follows:

Step 1: Click the “**COM Port**” drop-down list and select the COM port that will be used to upgrade the firmware, as shown in the following figure.

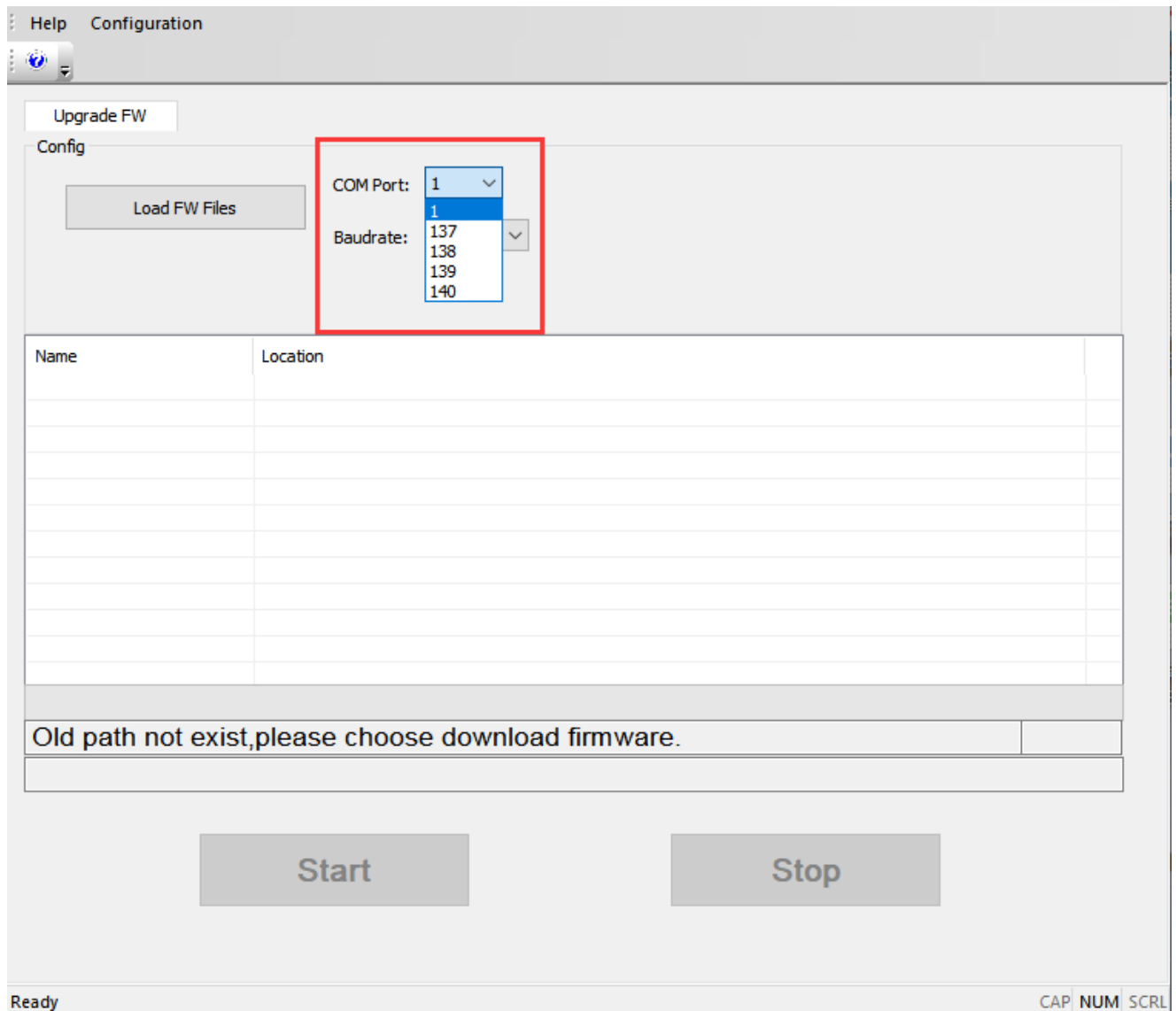


Figure 26: Select the Serial Port of BG96 Module

Step 2: Click the “Load FW Files” button and select the firmware file with the extension .mbn to download to the module.

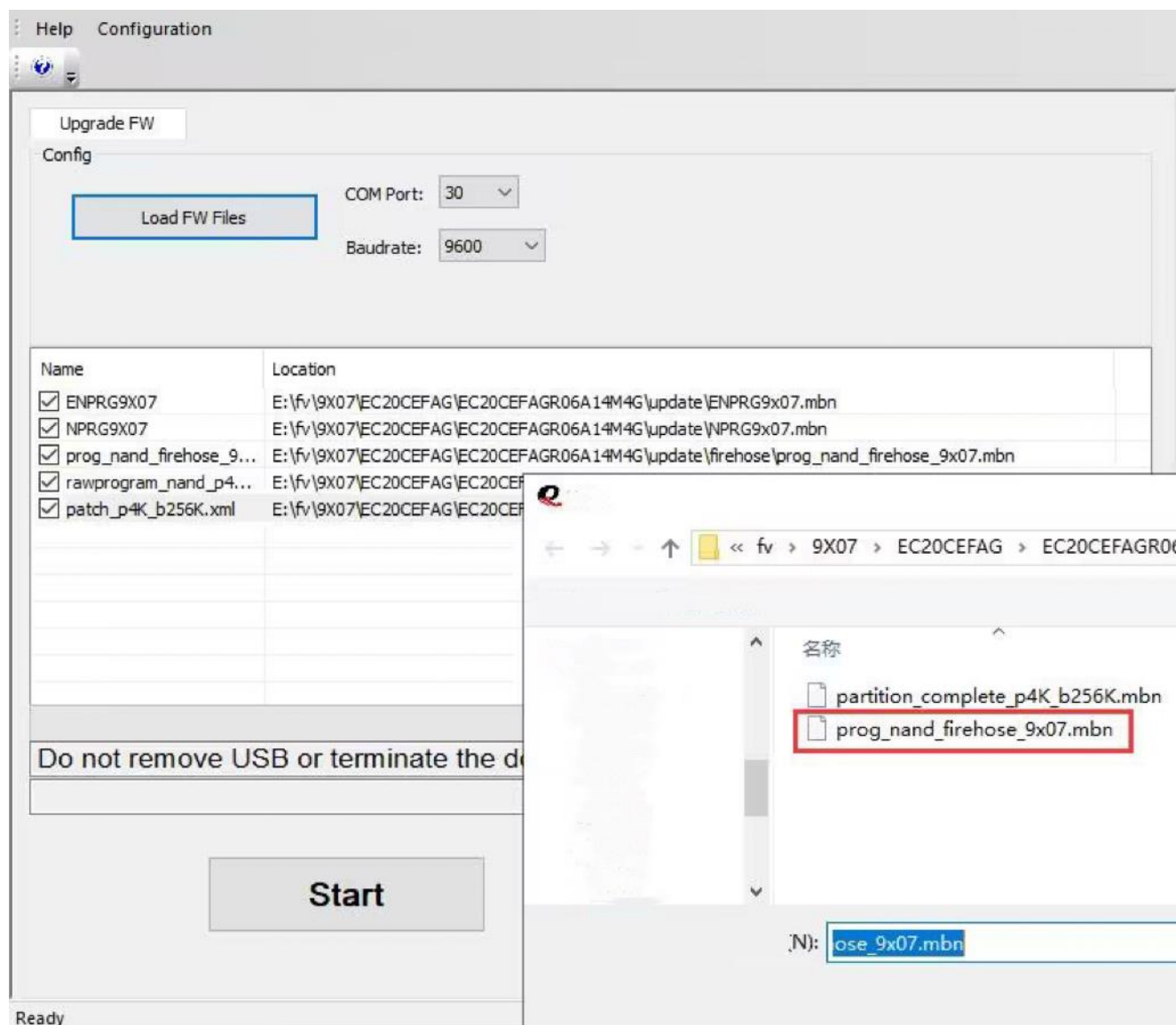


Figure 27: Select the File to Be Downloaded

Step 3: Click the “Start” button and the prompt “Do you need MBN autosel feature enabled by default” will pop out.

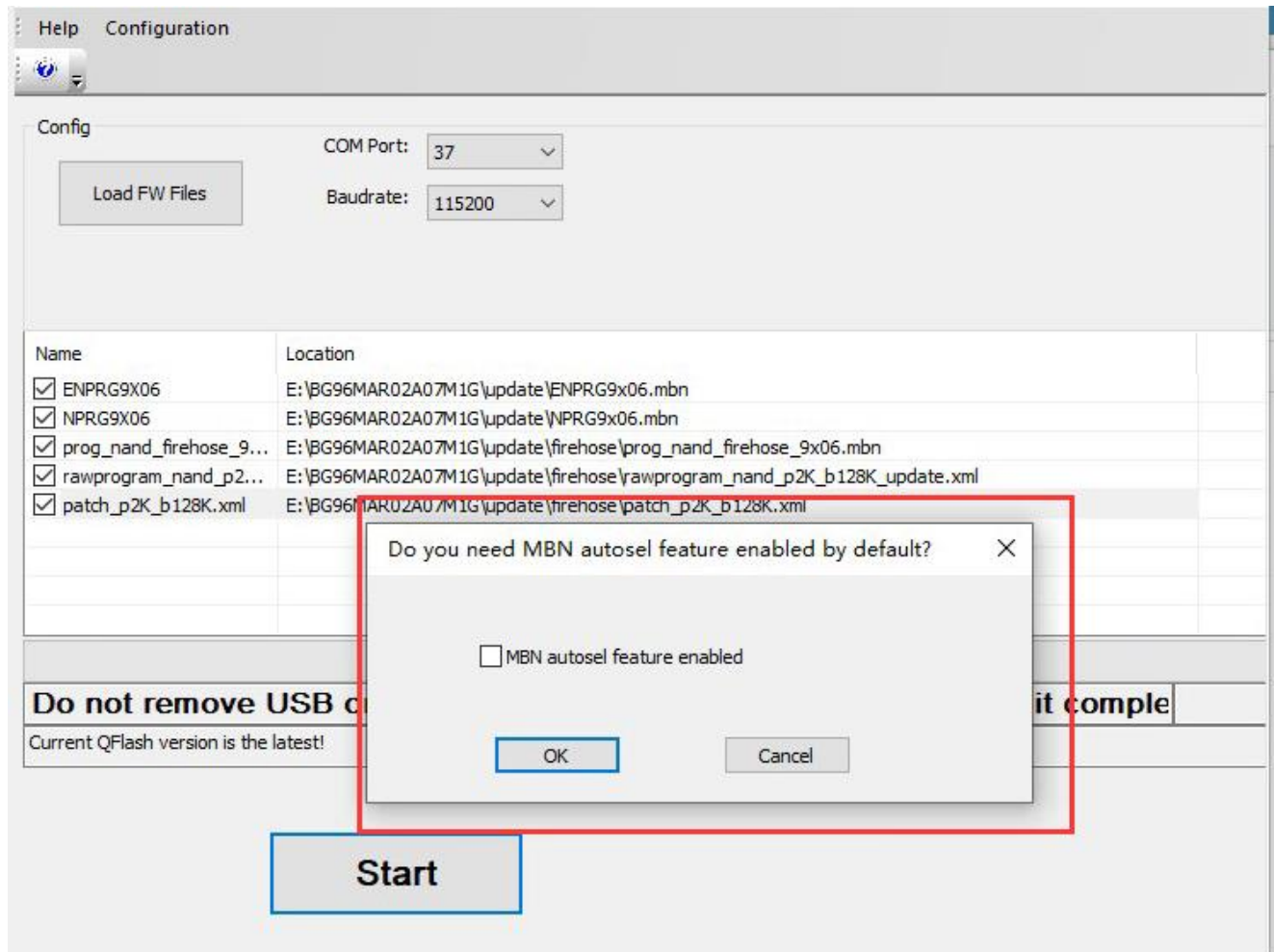


Figure 28: Select MBN Autosel Function

NOTE

1. Make sure there is an *mbn* folder in the selected firmware version package before upgrading.
2. If the “**MBN autosel feature enabled**” checkbox is checked, the MBN automatic selection function is enabled; otherwise, it is disabled. You can start upgrading MBN files either by clicking the “**OK**” button after checking “**MBN autosel feature enabled**”, or by just clicking “**Cancel**”.

Step 4: “PASS” will be shown on the interface after the firmware has been successfully upgraded, as shown in the following figure.

Help
Configuration

Config

Load FW Files

COM Port: 37

Baudrate: 115200

Name	Location
<input checked="" type="checkbox"/> ENPRG9X06	E:\BG96MAR02A07M1G\update\ENPRG9x06.mbn
<input checked="" type="checkbox"/> NPRG9X06	E:\BG96MAR02A07M1G\update\NPRG9x06.mbn
<input checked="" type="checkbox"/> prog_nand_firehose_9...	E:\BG96MAR02A07M1G\update\firehose\prog_nand_firehose_9x06.mbn
<input checked="" type="checkbox"/> rawprogram_nand_p2...	E:\BG96MAR02A07M1G\update\firehose\rawprogram_nand_p2K_b128K_update.xml
<input checked="" type="checkbox"/> patch_p2K_b128K.xml	E:\BG96MAR02A07M1G\update\firehose\patch_p2K_b128K.xml

PASS

205 s

Current QFlash version is the latest!

Start

Figure 29: MBN Files Upgraded Successfully for BG96

2.5. Abnormalities

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

2.5.1. Selected a Wrong Serial Port

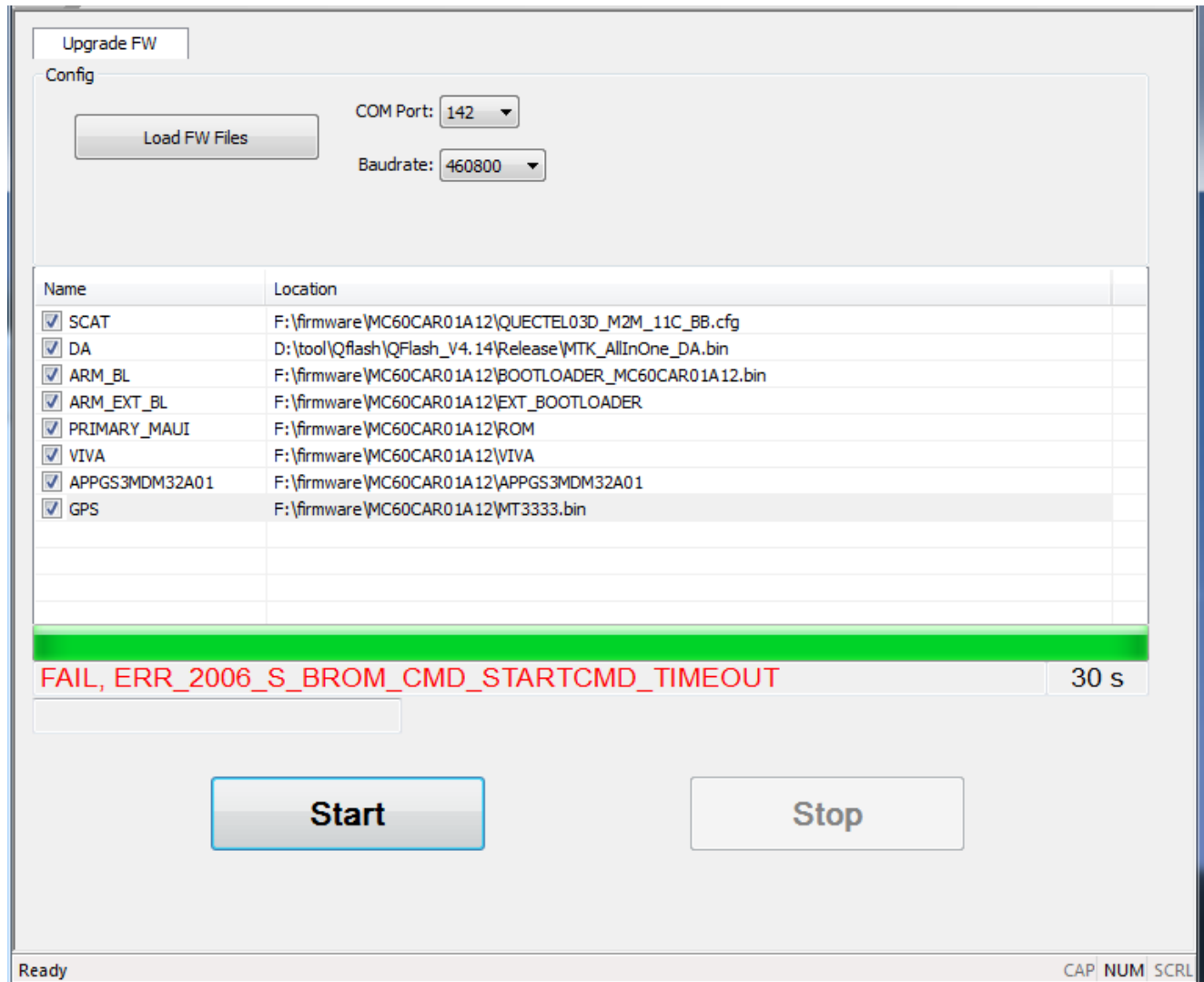


Figure 30: Connected to a Wrong Serial Port (M66/M95/MC60)

NOTE

After selecting a correct serial port, if M66, M95 and MC60 modules are not restarted, the error message will be the same as that caused by selecting a wrong serial port.

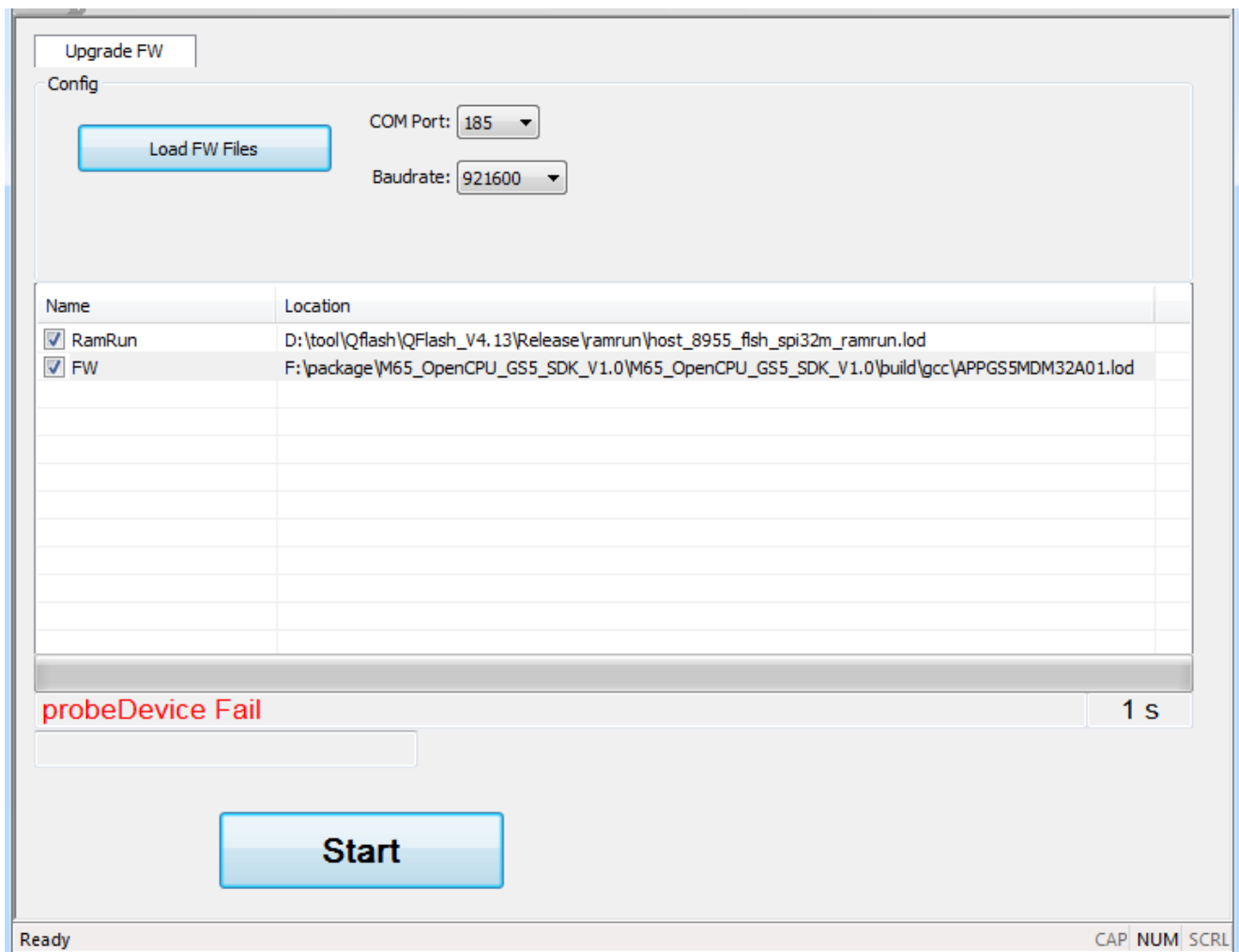


Figure 31: Connected to a Wrong Serial Port (M65)

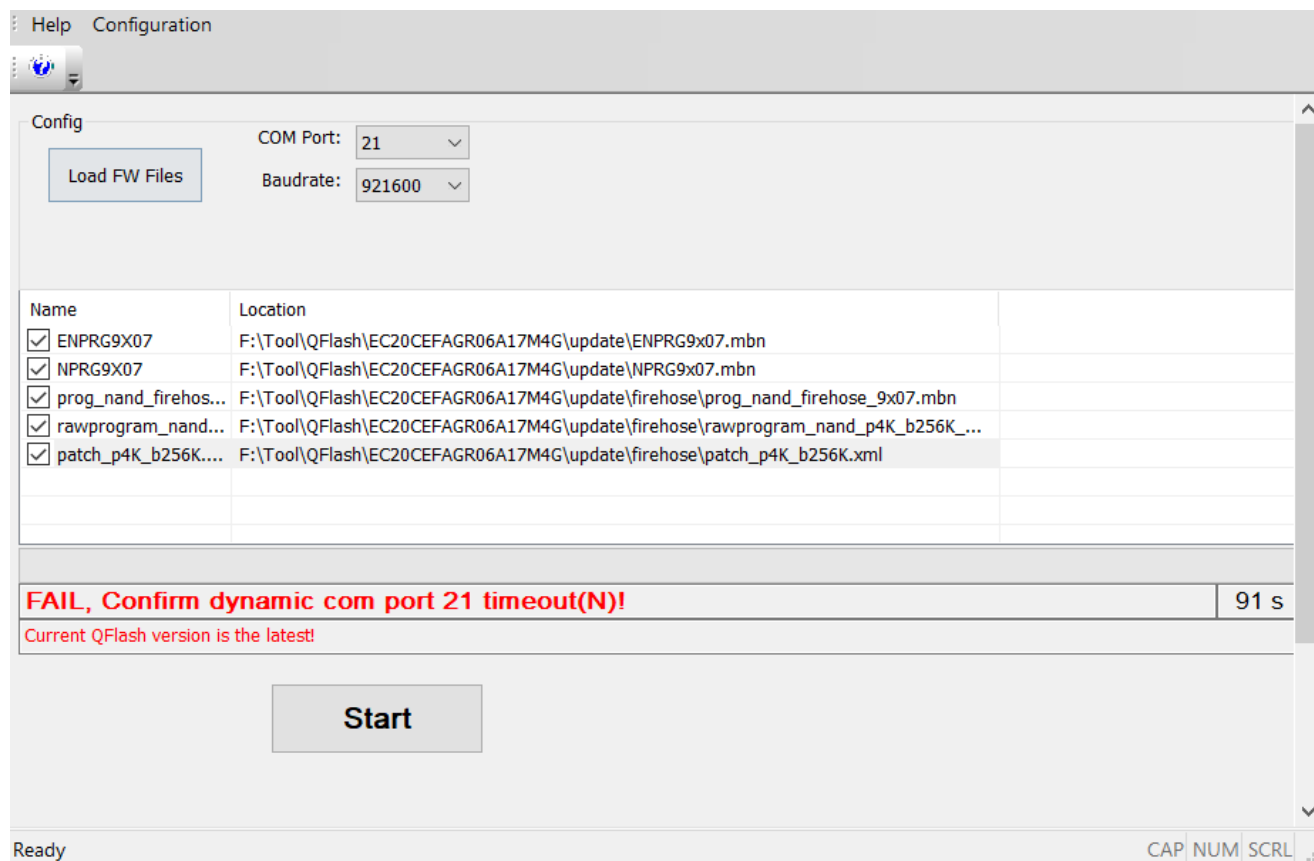


Figure 32: Connected to a Wrong Serial Port (Rx500Q/Ex06/Ex12/EG18/EC2x/EG2x-G/EG9x/EM05/AGxx/AG52xR/AG55xQ/BGxx)

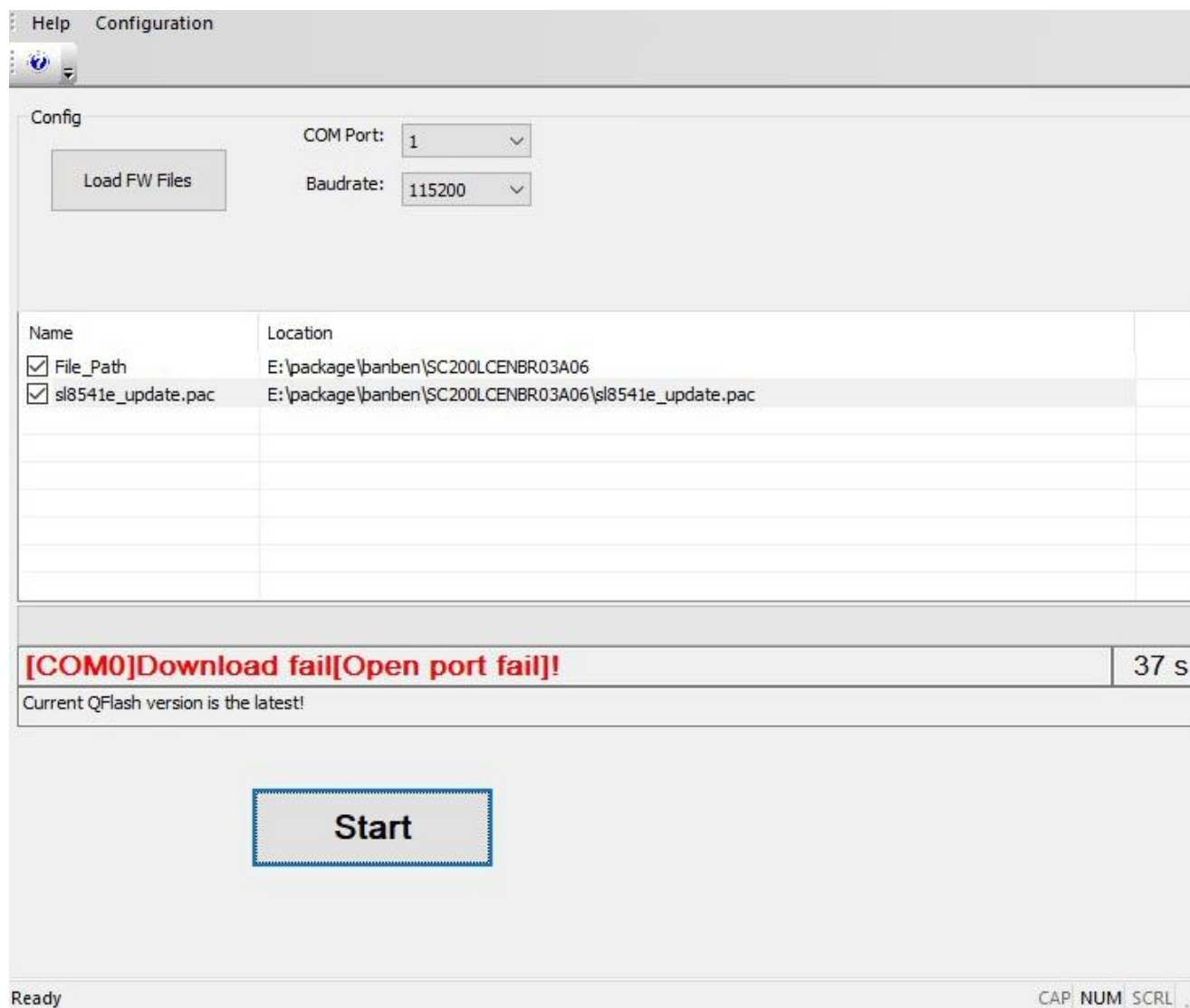


Figure 33: Connected to a Wrong Serial Port (SCxx)

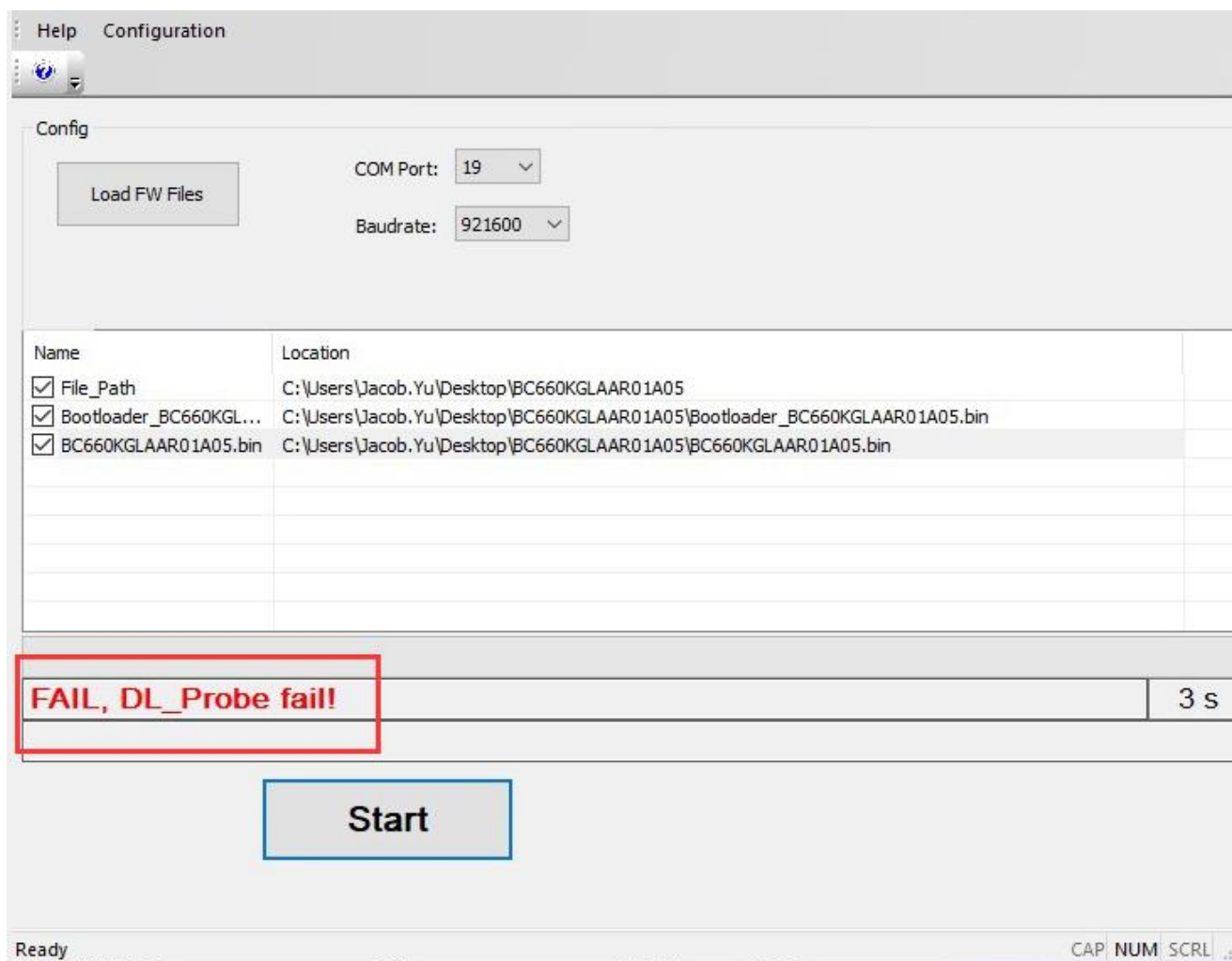


Figure 34: Connected to a Wrong Serial Port (BCxx/BC660K/BC950K)

2.5.2. Connected to an Occupied Serial Port

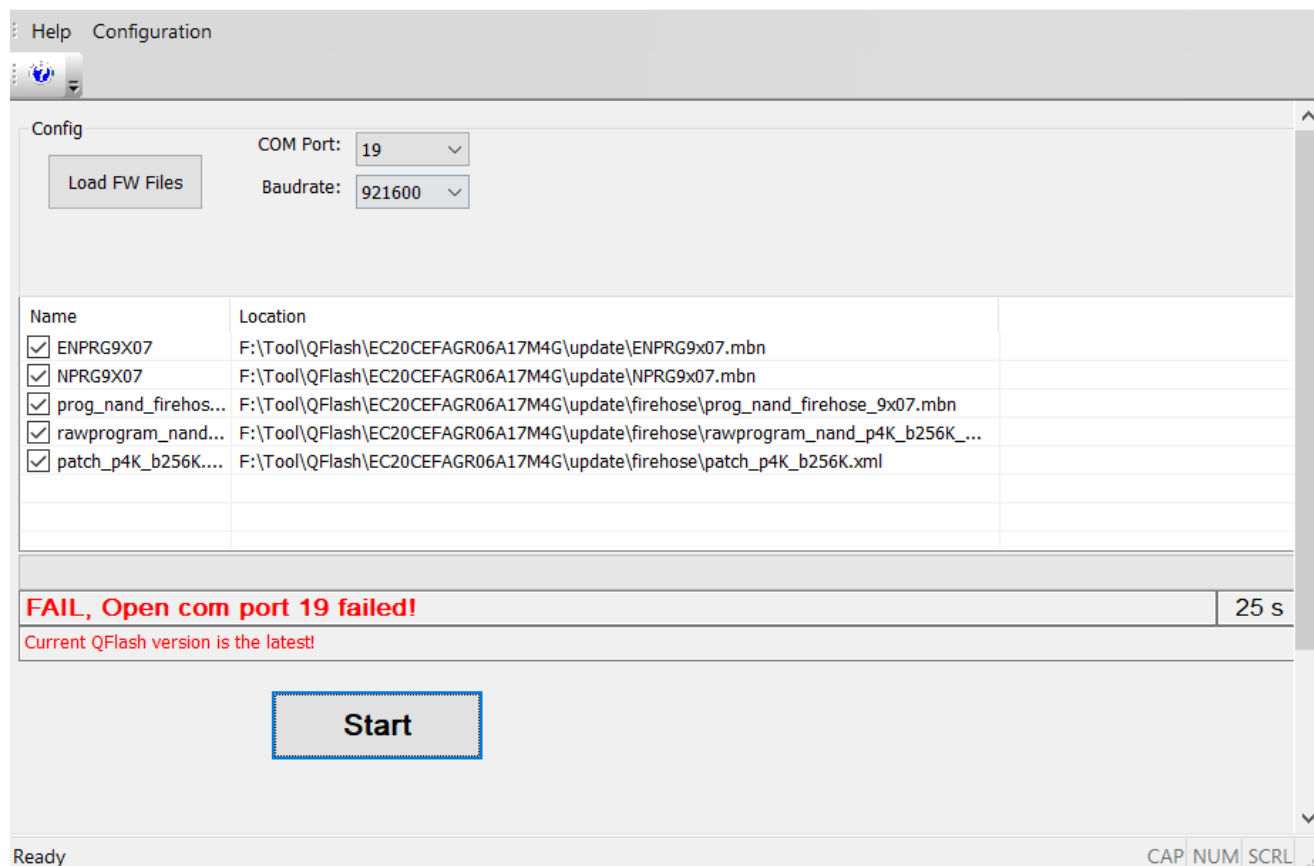


Figure 35: Connected to an Occupied Serial Port (Rx500Q/Ex06/Ex12/EG18/EC2x/EG2x-G/EG9x/EM05/AGxx/AG52xR/AG55xQ/SCxx/BGxx)

Help
Configuration

Config

Load FW Files

COM Port: 20

Baudrate: 921600

Name	Location
<input checked="" type="checkbox"/> File_Path	C:\Users\Jacob.Yu\Desktop\BC660KGLAAR01A05
<input checked="" type="checkbox"/> Bootloader_BC660KGL...	C:\Users\Jacob.Yu\Desktop\BC660KGLAAR01A05\Bootloader_BC660KGLAAR01A05.bin
<input checked="" type="checkbox"/> BC660KGLAAR01A05.bin	C:\Users\Jacob.Yu\Desktop\BC660KGLAAR01A05\BC660KGLAAR01A05.bin

FAIL, DL_Probe fail!

9 s

Start

Ready
CAP NUM SCRL

Figure 36: Connected to an Occupied Serial Port (BCxx/BC660K/BC950K)

2.5.3. Selected an Unsupported Baud Rate

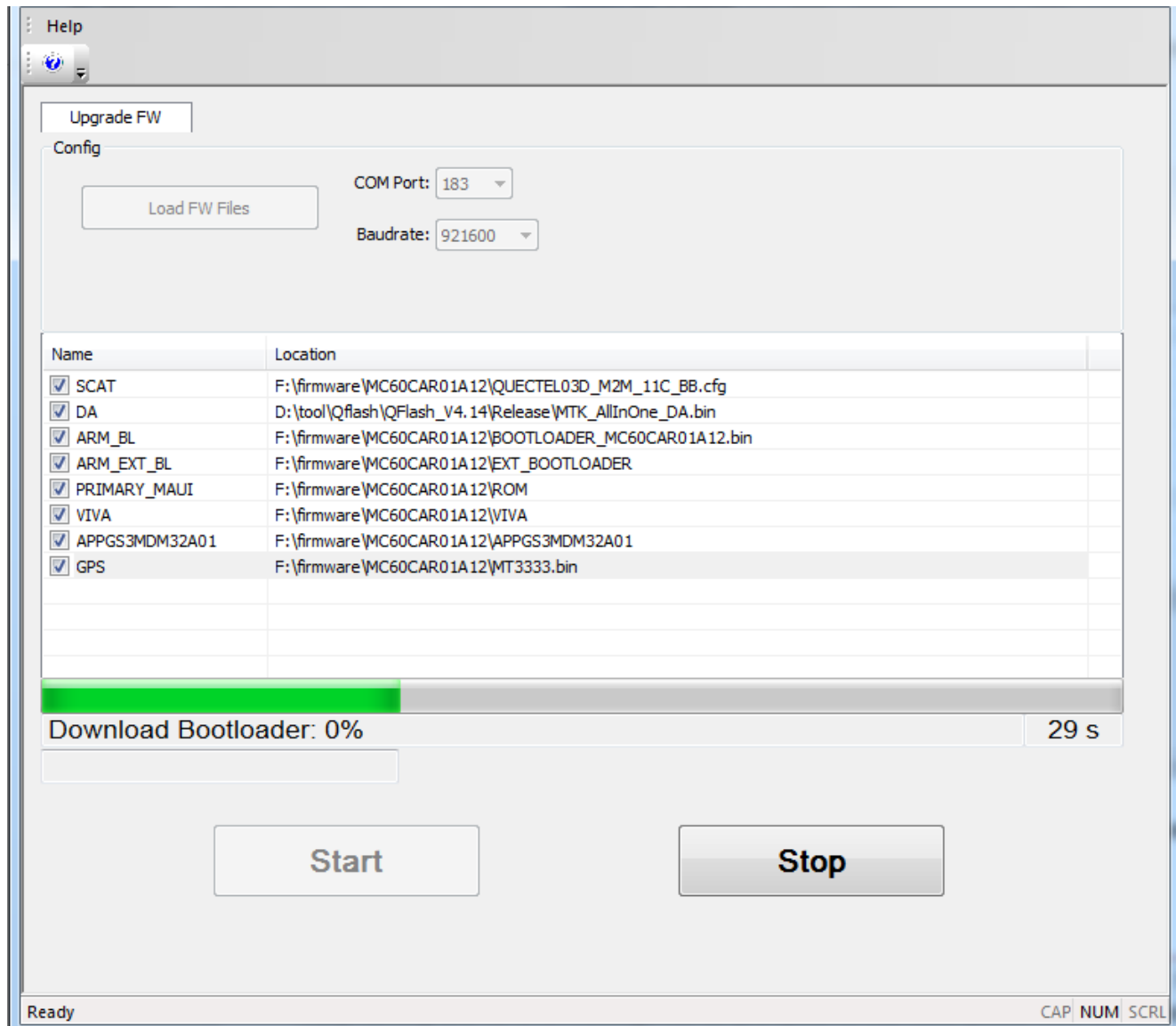


Figure 37: Selected an Unsupported Baud Rate (M66/M95/MC60)

NOTE

For M66, M95 or MC60, 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.

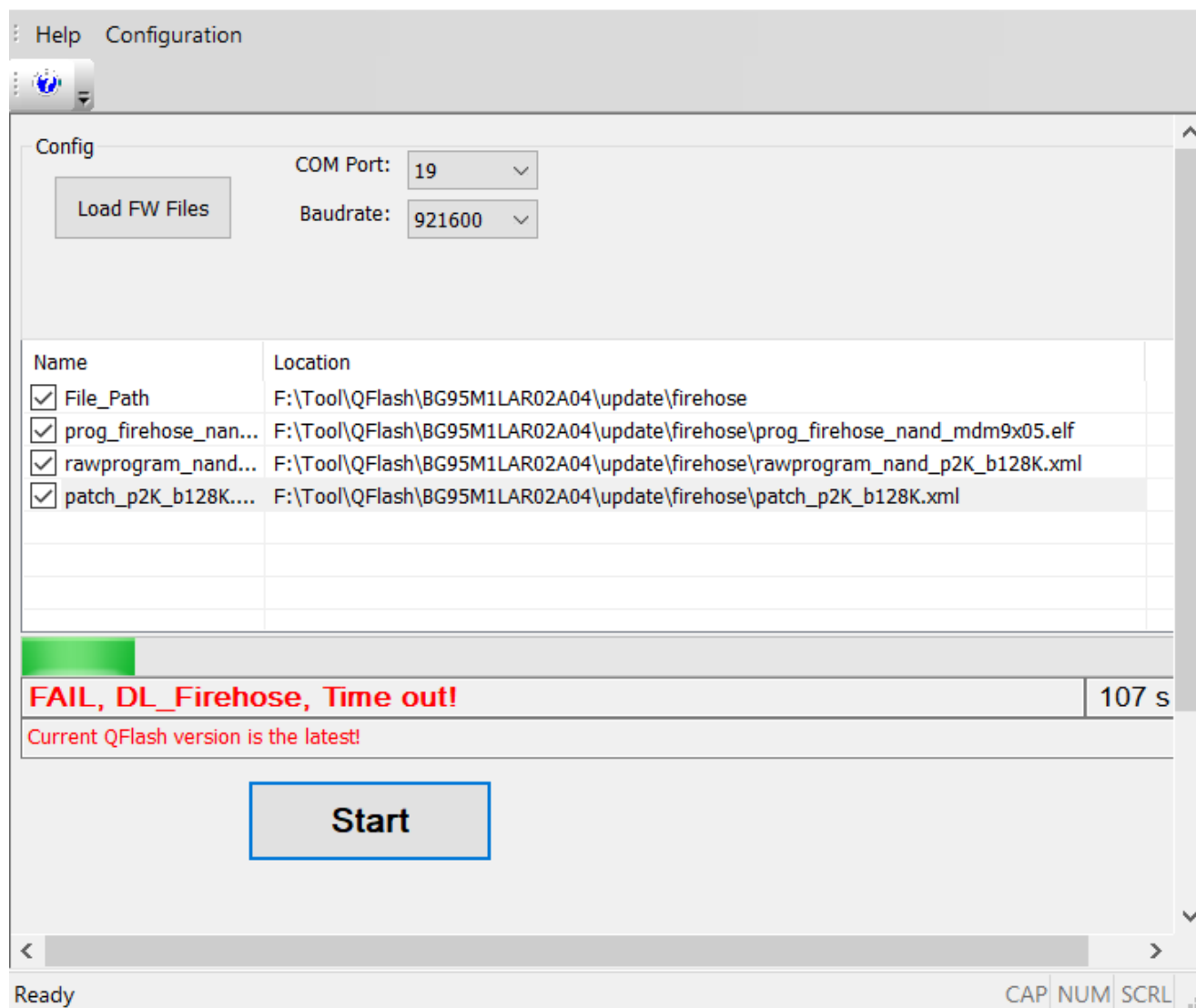


Figure 39: Selected an Invalid FW File (EC2x/EG9x/EM05)

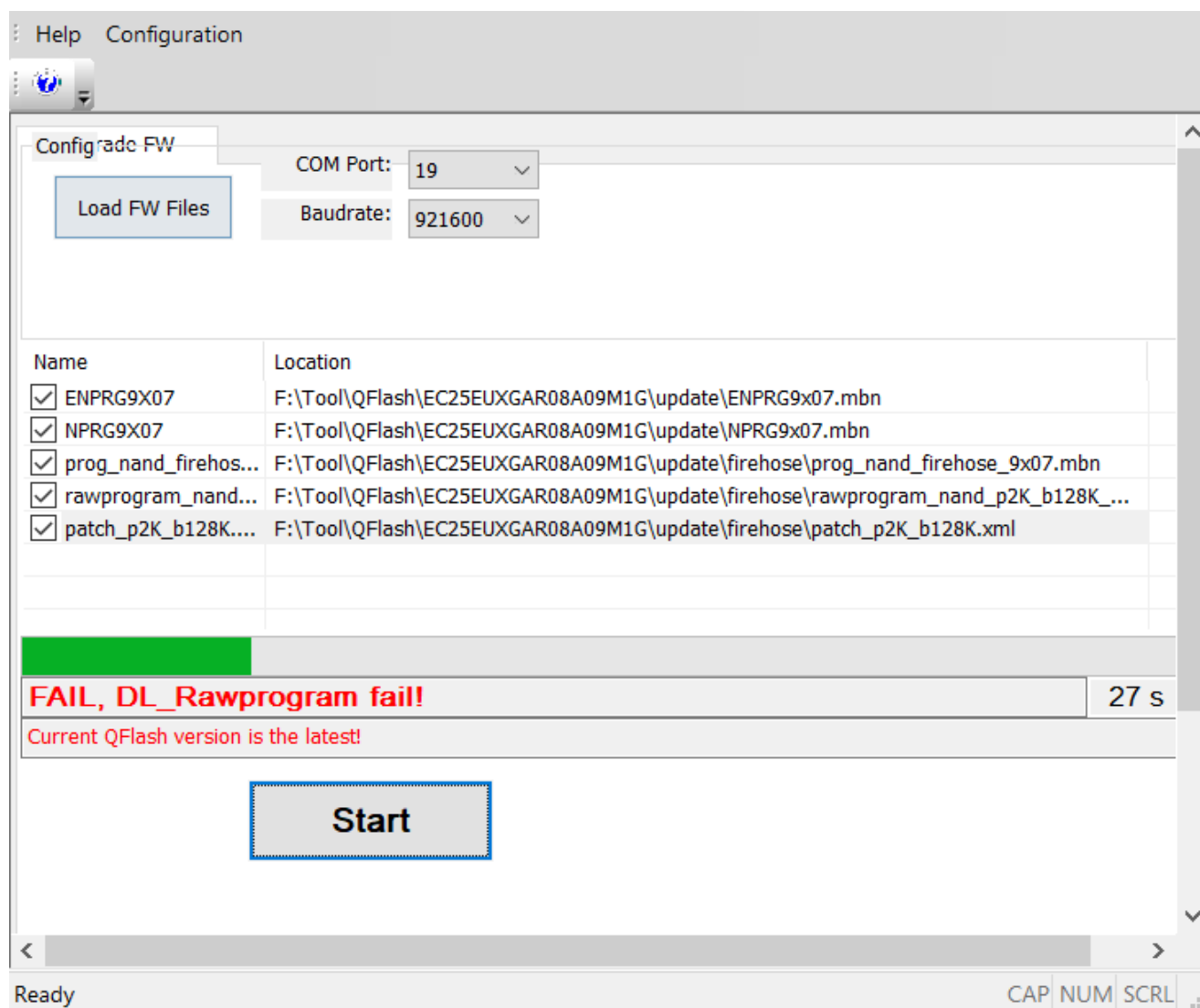


Figure 40: Selected an Invalid FW File (Ex06/Ex12/EG18/AGxx/AG52xR/AG55xQ/BG96)

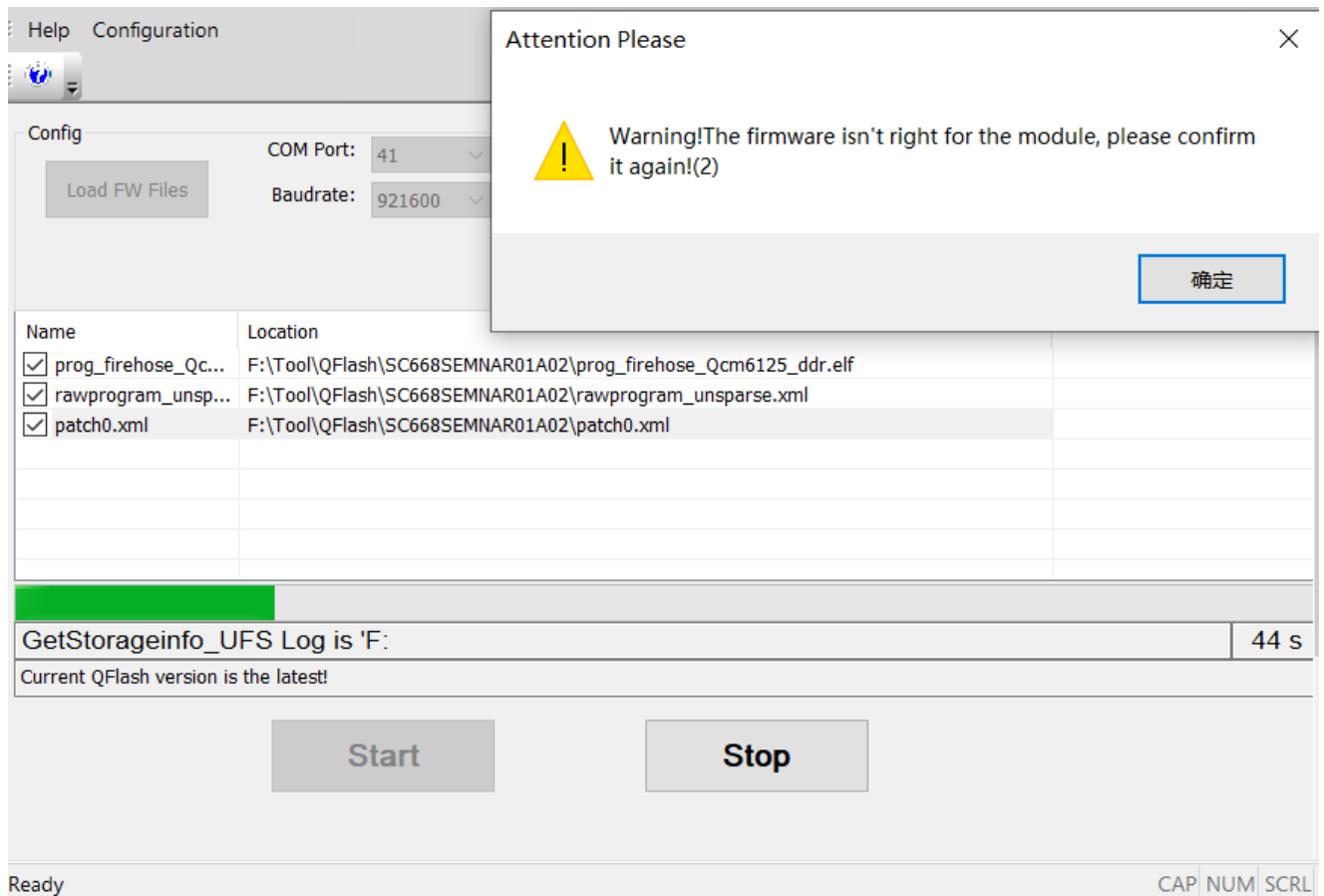


Figure 41: Selected an Invalid FW File (SC668S)

NOTE

SC668S supports eMMC (SC668S...**NA**...) and UFS (SC668S...**UA**...) firmware versions. The module does not support firmware updating between the two different versions. If a wrong version is selected, a popup window as shown above will appear to indicate updating failure.

2.5.5. Power Supply is Abnormal

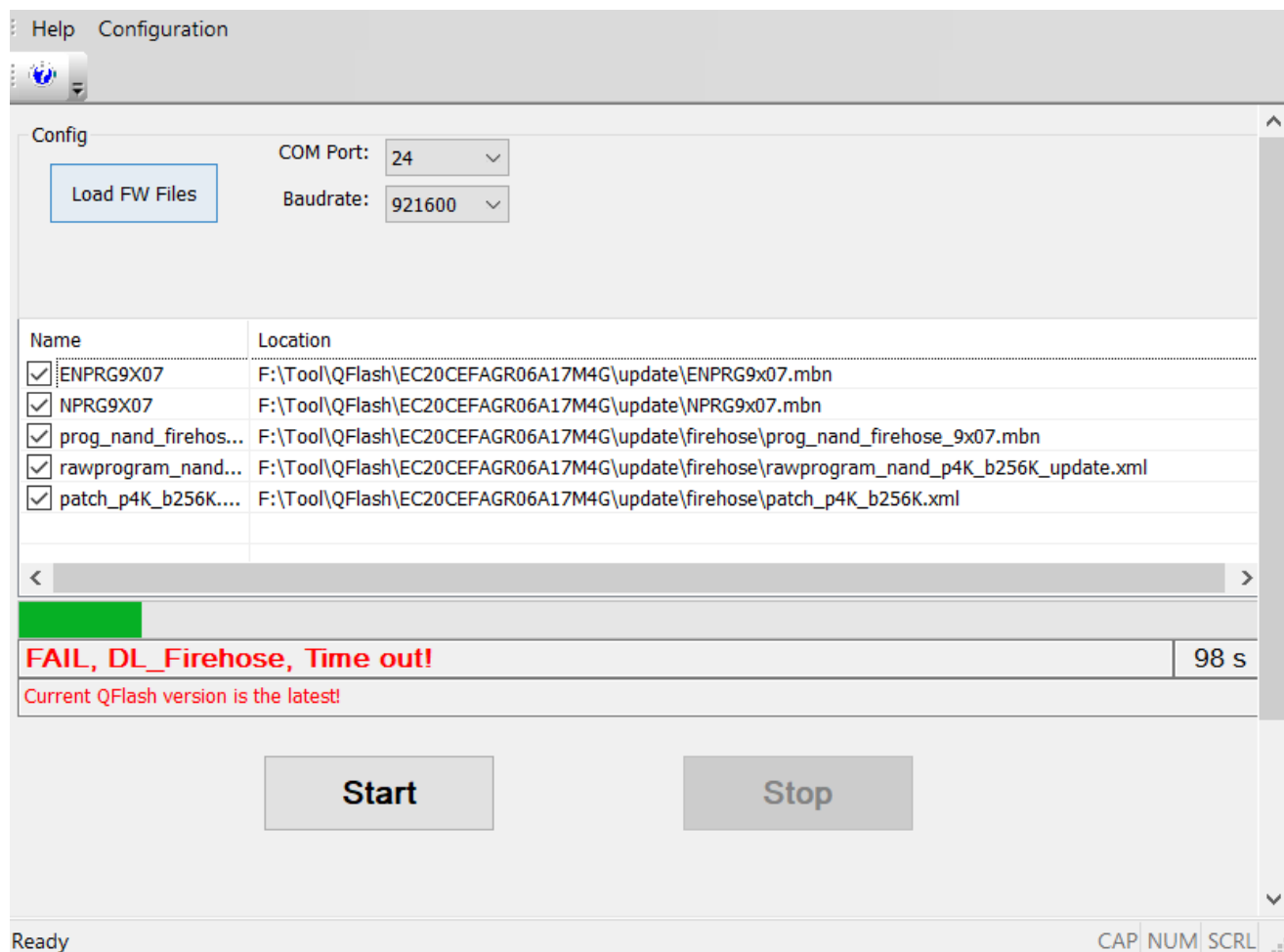


Figure 42: Abnormal Power Supply (Rx500Q/Ex06/Ex12/EG18/EC2x/EG2x-G/EG9x/ EM05/AGxx/ AG52xR/AG55xQ/BGxx)

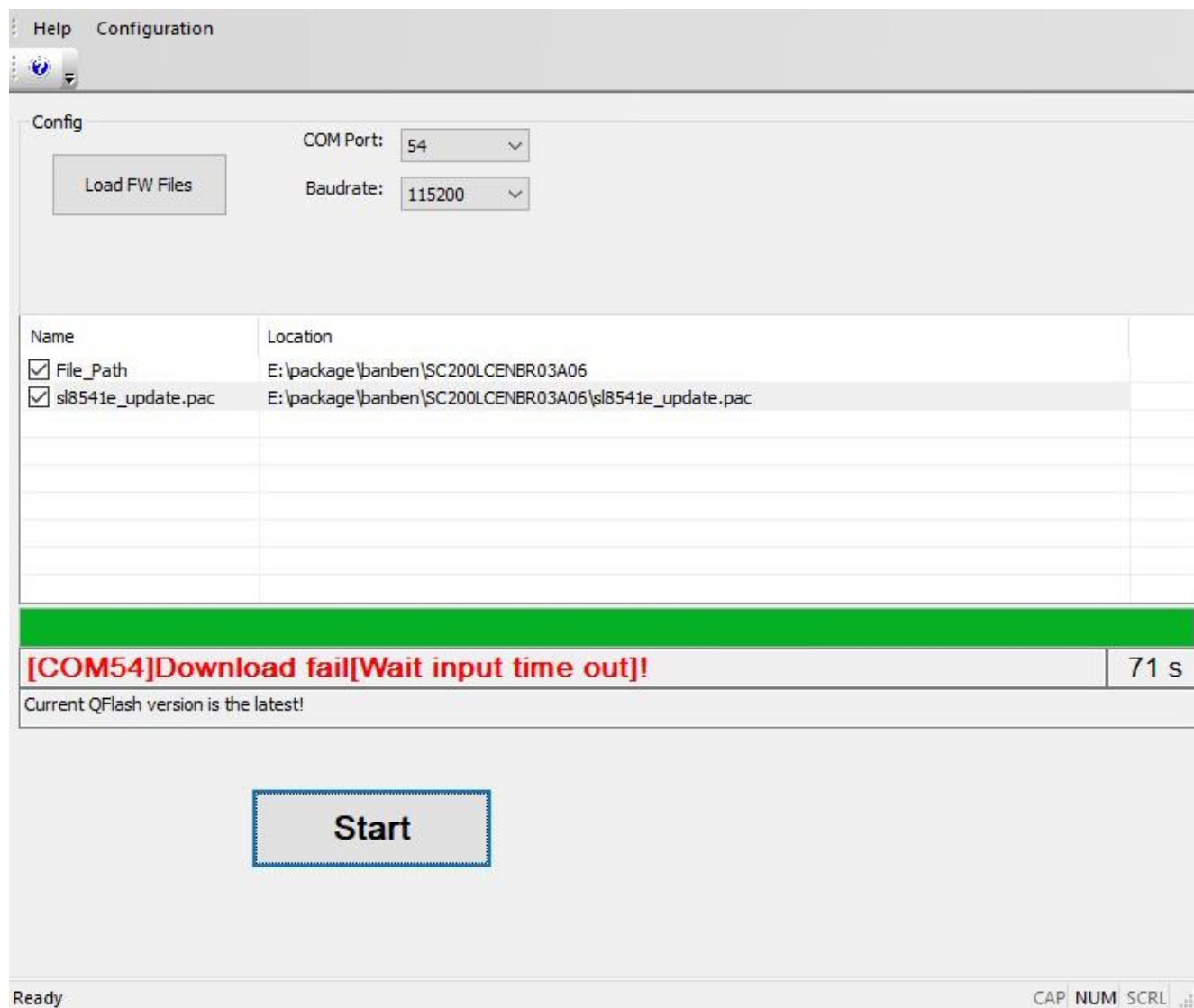



Figure 43: Abnormal Power Supply (SCxx)

Help
Configuration



Config

Load FW Files

COM Port: 19

Baudrate: 921600

Name	Location
<input checked="" type="checkbox"/> File_Path	C:\Users\Jacob.Yu\Desktop\BC660KGLAAR01A05
<input checked="" type="checkbox"/> Bootloader_BC660KGL...	C:\Users\Jacob.Yu\Desktop\BC660KGLAAR01A05\Bootloader_BC660KGLAAR01A05.bin
<input checked="" type="checkbox"/> BC660KGLAAR01A05.bin	C:\Users\Jacob.Yu\Desktop\BC660KGLAAR01A05\BC660KGLAAR01A05.bin

FAIL, DL_BOOTLOADER_SYSTEM fail!

44 s

Start

Ready

CAP NUM SCRL

Figure 44: Abnormal Power Supply (BCxx/BC660K/BC950K)