

QFlash User Guide

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About the Document

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1 Introduction

This document mainly introduces firmware upgrade procedure with the QFlash tool provided by Quectel. QFlash is a single-port firmware upgrade tool. It supports firmware upgrade of one module at a time.

1.1. Operating System

The tool can run on a PC without actual installation, if the PC runs one of the following operating systems.

- Windows 7
- Windows 8
- Windows 10
- Windows 11

NOTE

- 1. In Windows 10 and 11, right-click on the executable file of the toolkit and select "Run as administrator" to run the tool.
- 2. The storage path of the tool and the firmware package must be in English characters and should NOT contain any space, "()" or Chinese characters.
- 3. The storage/loading path of the firmware package has to be a local path instead of a USB device path or a network path.
- 4. The firmware package should be left intact and not modified.

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1.2. Applicable Modules

QFlash is applicable to the following Quectel modules.

Table 1: Applicable Modules

Product Line	Module
	RG200U
	RG255C
	RG500L
	RG500Q
5 G	RG500U
36	RG520N
	RG525F
	RM500Q
	RM500U
	RM520N
	EG06
	EG060W
	EG12
LTE-Advanced	EG18
	EM06
	EM12-G
	EP06
	EC20-CE
LTE Otan Inc. I	EC200A
LTE Standard	EC200S
	EC200U

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	EC21
	EC25
	EG21-G
	EG25-G
	EG91
	EG912Y
	EG915Q
	EG95
	EM05
	AG15
	AG215S
	AG35
	AG509M
	AG519M
	AG520R
	AG521R
Automotive	AG525R
	AG529R
	AG550Q
	AG551Q
	AG552Q
	AG553Q
	AG590E
	SC20
Smart	SC66
	SC200E

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	SC200L
	SC668S
	SG368Z
	SG520B
	SG560D
	SG865W
	SG885G
	BC66
	BC660K
	BC92
	BC950K
	BG77
	BG770A
LPWA	BG95
	BG950A
	BG951A
	BG955A
	BG950S
	BG96
	M65
	M66
GSM	M95
	MC60
	FC41D
Wi-Fi&Bluetooth	FCM100D
	FCM242D

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	FCM360W
	FCM561D
	FLM140D
	HCM010S
Satellite	CC660D

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 tool as shown below:

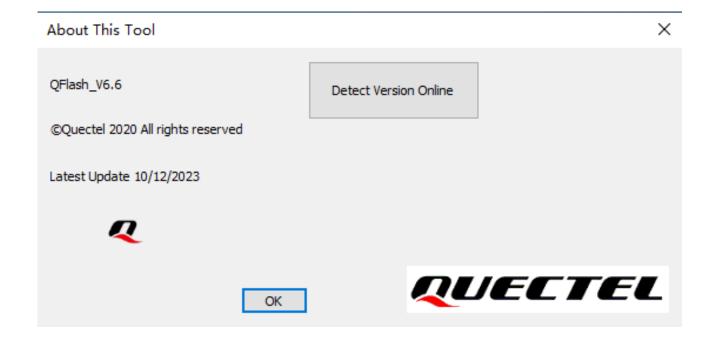


Figure 1: About the QFlash Tool

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2 Firmware Upgrade Procedures

Firmware upgrade procedures with QFlash tool are illustrated below.

Step 1: Select COM port and baud rate.

Step 2: Load firmware file.

Step 3: Start firmware upgrade.

NOTE

- 1. In general, you can follow the steps above to upgrade the firmware. However, the upgrade steps for some modules are slightly different. See *Table 2* for details.
- 2. QFlash supports firmware upgrade in Firehose and Sahara modes.
 - When the 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. If the upgrade in Firehose mode fails after many attempts, please try again after turning off or uninstalling your anti-virus software and firewall.
 - If there is no Firehose folder in the firmware package, the firmware will be upgraded in Sahara mode by default.

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2.1. Select COM Port and Baud Rate

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

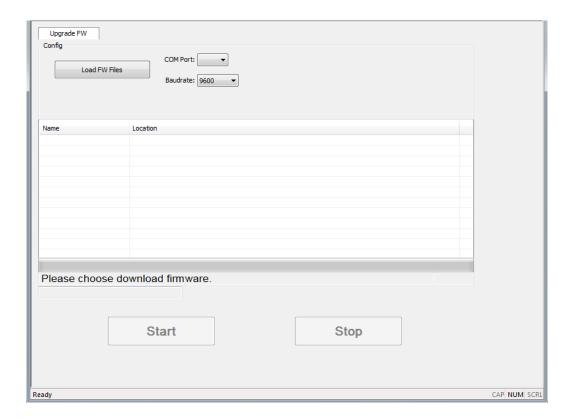


Figure 2: Main Interface of QFlash

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2.1.1. Select COM Port

Detailed steps for selecting COM port are illustrated below.

- Step 1: Check *Table 3* to confirm the firmware download port (COM port) for a specified module.
- **Step 2:** Click "COM Port" drop-down list to select the corresponding COM port number, unless otherwise specified in the "Comment" column of *Table 3*.

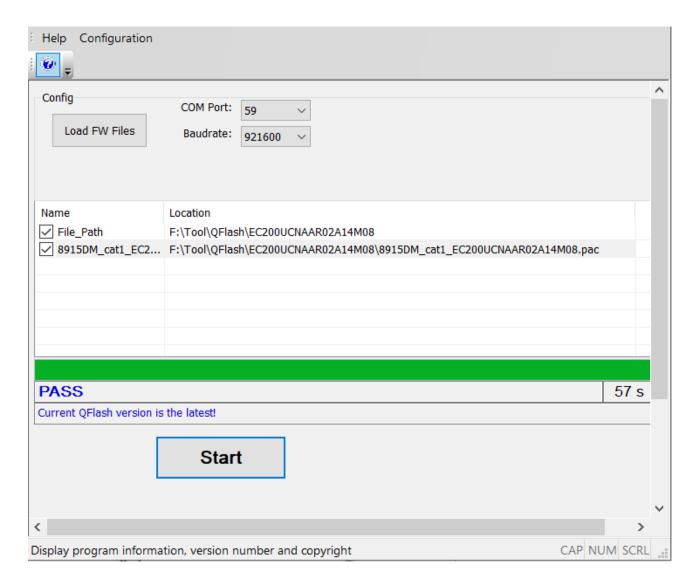


Figure 3: Select COM Port Number

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2.1.2. Set Baud Rate

Step 1: Check *Table 4* to confirm the supported baud rate of a specified module for firmware upgrade.

Step 2: Click "Baudrate" drop-down list to select the corresponding baud rate.

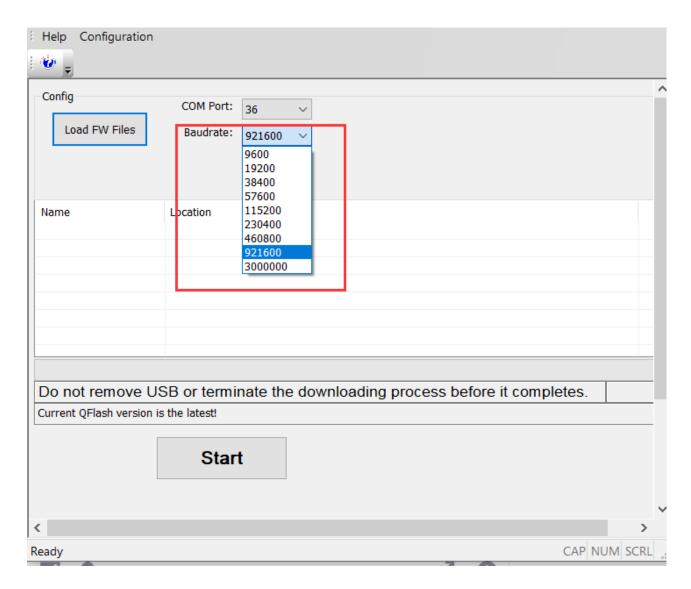


Figure 4: Select the Baud Rate

NOTE

- 1. Baud rate setting is unnecessary for virtual USB port.
- 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.

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2.2. Load Firmware File

Step 1: Click the button "Load FW Files".

Step 2: Check *Table 5* to select the corresponding firmware file to be downloaded to the module.

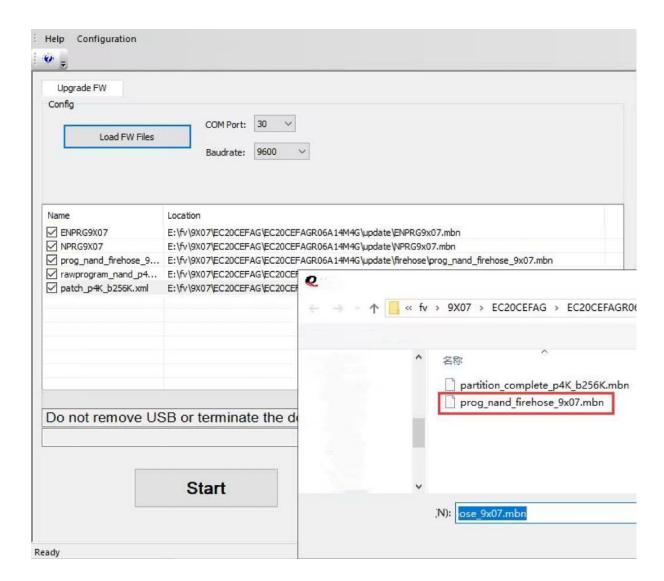


Figure 5: Select the File to Be Downloaded

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2.3. Start Firmware Upgrade

Table 2: Firmware Upgrade Starting Steps

Product Line	Module	Firmware Upgrade Starting Steps	Comment
	RG200U	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	
	RG255C	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	
	RG500L	 Power on the module. Click the "Start" button and the firmware will be upgraded. 	
5G	RG500Q	Click the " Start " button. And the tool will start firmware upgrade after the module resets automatically.	
	RG500U	Click the " Start " button. And the tool will start firmware upgrade after the module resets automatically.	
	RG520N	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	
	RG525F	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	

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	RM500Q	Click the "Start" button. And the tool will start firmware upgrade after the module resets	
	RIVIOUQ	automatically.	
	RM500U	Click the "Start" button. And the tool will start firmware upgrade after the module resets	
	RM520N	automatically. Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	Support firmware upgrading by PCIe interface.
	Click the "Start" button. And the tool will start		There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
LTE-Advanced	EG060W	 Select the .zip firmware package. Click the "Start" button. Power on the module manually. The tool automatically selects Quectel USB Download Port and starts firmware upgrade. 	After the firmware is upgraded successfully, close the tool before you power on the module. Otherwise, the tool will automatically start firmware upgrade again.
	EG12	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
	EG18	Click the " Start " button. And the tool will start firmware upgrade after the module resets automatically.	There is no "Stop" button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the

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			downloading process before the upgrading is completed.
	EM06 EM12-G EP06	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
		Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
		Click the " Start " button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
	EC20-CE	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
LTE Standard	EC200A	 Select the .zip firmware package. Click the "Start" button. Power on the module manually. The tool automatically selects Quectel USB Download Port and starts firmware upgrade. 	After the firmware is upgraded successfully, close the tool before you power on the module. Otherwise, the tool will automatically start firmware upgrade again.

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Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically. EC21 firmware upgrade after the module resets automatically. Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically. EC25 firmware upgrade after the module resets automatically. Click the "Start" button. And the tool will start downloading process before the upgrade completed. There is no "Stop" button while upgrading firm downloading process before the upgrade completed. There is no "Stop" button while upgrading firm this case, it is NOT permitted to stop the upgrade completed. There is no "Stop" button while upgrading firm downloading process before the upgrade completed. There is no "Stop" button while upgrading firm downloading process before the upgrade completed. There is no "Stop" button while upgrading firm downloading process before the upgrade completed. There is no "Stop" button while upgrading firm downloading process before the upgrade completed.			
EC200U firmware upgrade after the module resets automatically. There is no "Stop" button while upgrading firm this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terming downloading process before the upgrading firm this case, it is NOT permitted to stop the upgrading firm this case, it is NOT permitted to stop the upgrading firm this case, it is NOT permitted to stop the upprading firm this case, it is NOT permitted to stop the upprading process, and do NOT remove the USB or terming downloading process before the upgrading firm this case, it is NOT permitted to stop the upprading firm this case, it is NOT	EC200S	prompts "getting serial devices list". 2. Click the "Start" button to upgrade the	
Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically. EC21 firmware upgrade after the module resets automatically. Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically. EC25 firmware upgrade after the module resets automatically. Click the "Start" button. And the tool will start downloading process before the upgrade completed. There is no "Stop" button while upgrading firm downloading process before the upgrade completed. There is no "Stop" button while upgrading firm this case, it is NOT permitted to stop the upgrade completed. There is no "Stop" button while upgrading firm downloading process before the upgrade completed. There is no "Stop" button while upgrading firm downloading process before the upgrade completed. There is no "Stop" button while upgrading firm downloading process before the upgrade completed. There is no "Stop" button while upgrading firm downloading process before the upgrade completed.	EC200U	firmware upgrade after the module resets	
Click the "Start" button. And the tool will start this case, it is NOT permitted to stop the up process, and do NOT remove the USB or terming downloading process before the upgrade completed. Click the "Start" button. And the tool will start this case, it is NOT permitted to stop the upgrade completed. There is no "Stop" button while upgrading firm this case, it is NOT permitted to stop the upprocess, and do NOT remove the USB or terming downloading process, and do NOT remove the USB or terming downloading process before the upgrade downloading process before the upgrade completed. There is no "Stop" button while upgrading firm the case, it is NOT permitted to stop the upprocess, and do NOT remove the USB or terming downloading process before the upgrade downloading process before the upgrade completed. There is no "Stop" button while upgrading firm the case, it is NOT permitted to stop the upprocess, and do NOT remove the USB or terming downloading process before the upgrade completed.	EC21	firmware upgrade after the module resets	
Click the "Start" button. And the tool will start this case, it is NOT permitted to stop the up process, and do NOT remove the USB or terming downloading process before the upgrade completed. There is no "Stop" button while upgrading firm	EC25	firmware upgrade after the module resets	
	EG21-G	firmware upgrade after the module resets	
EG25-G firmware upgrade after the module resets process, and do NOT remove the USB or termi	EG25-G		3 1

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Click the "Start" button. And the tool will start the EG91 firmware upgrade after the module resets prautomatically.	There is no " Stop " button while upgrading firmware. In his case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the
	downloading process before the upgrading is completed.
Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	·
 Click the "Start" button. When the tool prompts "REBOOT CHIP", press the "GNSS_RST" button on module TE-A to start GNSS firmware upgrade. After GNSS firmware completes upgrade, reset the module, and then the tool will start firmware upgrade automatically. 	
Click the "Start" button. And the tool will start the EG95 firmware upgrade after the module resets prautomatically.	There is no " Stop " button while upgrading firmware. In his case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
Click the "Start" button. And the tool will start the firmware upgrade after the module resets prautomatically.	There is no " Stop " button while upgrading firmware. In his case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
Click the "Start" button. And the tool will start The Automotive AG15 firmware upgrade after the module resets the	There is no "Stop" button while upgrading firmware. In his case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the

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		downloading process before the upgrading is completed.
AG215S	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
AG35	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
AG509M	 Turn off the module. Click the "Start" button, and then turn on the module within 10 seconds. The tool starts firmware upgrade automatically. 	Only supports firmware upgrading on 64-bit operating system.
AG519M	 Turn off the module. Click the "Start" button, and then turn on the module within 10 seconds. The tool starts firmware upgrade automatically. 	Only supports firmware upgrading on 64-bit operating system.
AG520R	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.

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AG521R	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
AG525R	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
AG529R	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
AG550Q	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
AG551Q	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
AG552Q	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the

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			downloading process before the upgrading is completed.
	AG553Q	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
	AG590E	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	
Smart	SC20	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
	SC66	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
	SC200E	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
	SC200L	Click the " Start " button. And the tool will start firmware upgrade after the module resets automatically.	

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		Click the "Start" button. And the tool will start
	SC668S	firmware upgrade after the module resets
		automatically.
		1. Power on the module.
	SG368Z	2. Click the "Start" button to start automatic
		firmware upgrade.
		Click the "Start" button. And the tool will start
	SG520B	firmware upgrade after the module resets
		automatically.
		Click the "Start" button. And the tool will start
	SG560D	firmware upgrade after the module resets
		automatically. Click the "Start" button. And the tool will start
	SG865W	firmware upgrade after the module resets
	3G803VV	automatically.
		Click the "Start" button. And the tool will start
	SG885G	firmware upgrade after the module resets
		automatically.
		1. Click the "Start" button.
		2. Reset the module manually when the tool There is no "Stop" button while upgrading firmware. In
LPWA		prompts "[INFO]Start connect with this case, it is NOT permitted to stop the upgrading
	BC66	target, Please reset DUT" or process, and do NOT remove the USB or terminate the
		"Reset". downloading process before the upgrading is
		The tool starts firmware upgrade completed. automatically.
		1. Press and hold the "BOOT" button to There is no "Stop" button while upgrading firmware. In
	BC660K	make the module enter download mode this case, it is NOT permitted to stop the upgrading while resetting the module by pressing process, and do NOT remove the USB or terminate the

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	the " RESET " button on TE-B. 2. Click the " Start " button to start automatic firmware upgrade.	downloading process before the upgrading is completed.
BC92	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	There is no " Stop " button while upgrading firmware. In this case, it is NOT permitted to stop the upgrading process, and do NOT remove the USB or terminate the downloading process before the upgrading is completed.
BC950K	 Click the "Start" button. Reset the module manually when the tool prompts "Probe". The tool starts firmware upgrade automatically. 	
BG77	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	
BG770A	 Turn off the module. Click the "Start" button, and then turn on the module within 10 seconds. The tool starts firmware upgrade automatically. 	
BG95	Click the "Start" button. And the tool will start firmware upgrade after the module resets automatically.	
BG950A	Option 1: 1. Turn off the module. 2. Click the "Start" button, and then turn on the module within 10 seconds.	

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	The tool starts firmware upgrade automatically.
	Option 2:
	Power on the module.
	Manually reset the module according to
	the tool prompt.
	The tool will automatically start firmware
	upgrade.
	Option 1:
	Turn off the module.
	2. Click the "Start" button, and then turn on
	the module within 10 seconds.
	3. The tool starts firmware upgrade It is necessary to enable the GNSS function and mak
DC054A	automatically. it enter the emergency download mode before the
BG951A	Option 2: upgrading.
	1. Power on the module.
	2. Manually reset the module according to
	the tool prompt.
	3. The tool will automatically start firmware
	upgrade.
	Option 1:
	1. Turn off the module.
	2. Click the "Start" button, and then turn on
BG955A	the module within 10 seconds.
B 000071	3. The tool starts firmware upgrade
	automatically.
	Option 2:
	 Power on the module.

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		Manually reset the module according to
		the tool prompt.
		3. The tool will automatically start firmware
		upgrade.
		1. Click the "Start" button.
		2. Press the reset button when the tool
	BG950S	prompts "please reset" to reset the
	DG9303	module.
		3. The tool starts firmware upgrade
		automatically.
		Click the "Start" button. And the tool will start
	BG96	firmware upgrade after the module resets
		automatically.
		Click the "Start" button. And the tool will start
	M65	firmware upgrade after the module resets
		automatically.
		1. Click the "Start" button.
		2. Switch the D/L to "ON" on EVB within 30
	M66	seconds. Make sure the EVB is powered by a 5 V power supply.
		3. The tool starts firmware upgrade
GSM		automatically.
		1. Click the "Start" button.
		2. Switch the D/L to "ON" on EVB within 30
	M95	seconds. Make sure the EVB is powered by a 5 V power supply.
		3. The tool starts firmware upgrade
		automatically.
	MC60	1. Click the " Start " button. Make sure the EVB is powered by a 5 V power supply.
		2. Switch the D/L to "ON" on EVB within 30

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			seconds.
		3.	The tool starts firmware upgrade
			automatically.
		1.	Click the "Start" button.
		2.	Reset the module manually when the tool
	FC41D		prompts "Erasing Flash".
		3.	The tool starts firmware upgrade
			automatically.
		1.	Click the "Start" button.
		2.	Reset the module manually when the tool
	FCM100D		prompts "Erasing Flash".
		3.	The tool starts firmware upgrade
			automatically.
		1.	Click the "Start" button.
W' F'ODL MAN	EON 40 40 D	2.	Reset the module manually when the tool
Wi-Fi&Bluetooth	FCM242D	0	prompts "Erasing Flash".
		3.	The tool starts firmware upgrade
		1.	automatically. Click the "Start" button.
			Reset the module manually when the tool
	FCM360W	۷.	prompts "Erasing Flash".
	1 01/1300	3.	The tool starts firmware upgrade
		٥.	automatically.
		1.	Power on the module manually.
		2.	Click the "Start" button.
	FCM561D	3.	
		٠.	prompts "Erasing Flash".
		4.	The tool starts firmware upgrade

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			automatically.
	FLM140D	1.	Click the "Start" button.
		2.	Reset the module manually when the tool
			prompts "Erasing Flash".
		3.	The tool starts firmware upgrade
			automatically.
	HCM010S	1.	Enable the J-Link tool.
		2.	Click the "Start" button and the module
	HCIVIU 105		will automatically perform the firmware
			upgrade.
Satellite	CC660D	1.	Click the "Start" button.
		2.	Reset the module manually when the tool
			prompts " Probe ".
		3.	The tool starts firmware upgrade
			automatically.

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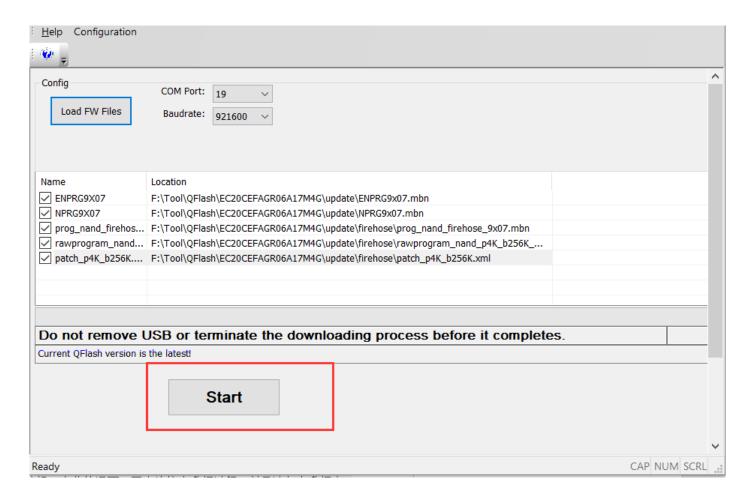


Figure 6: "Start" Button

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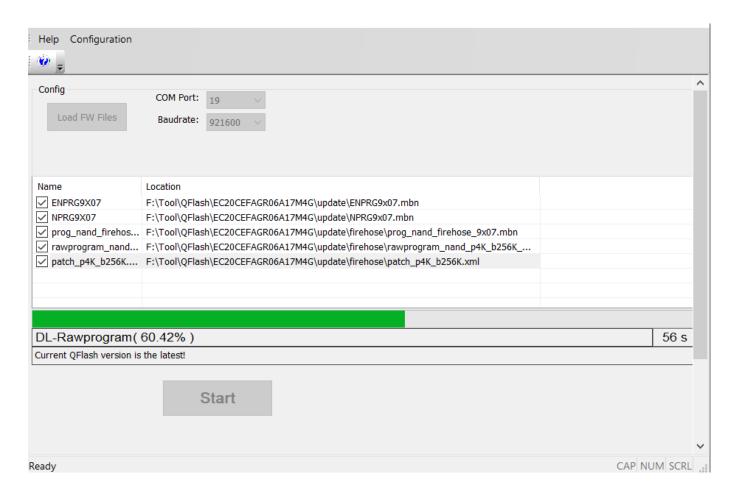


Figure 7: Start Firmware Upgrade Automatically After Clicking "Start" Button

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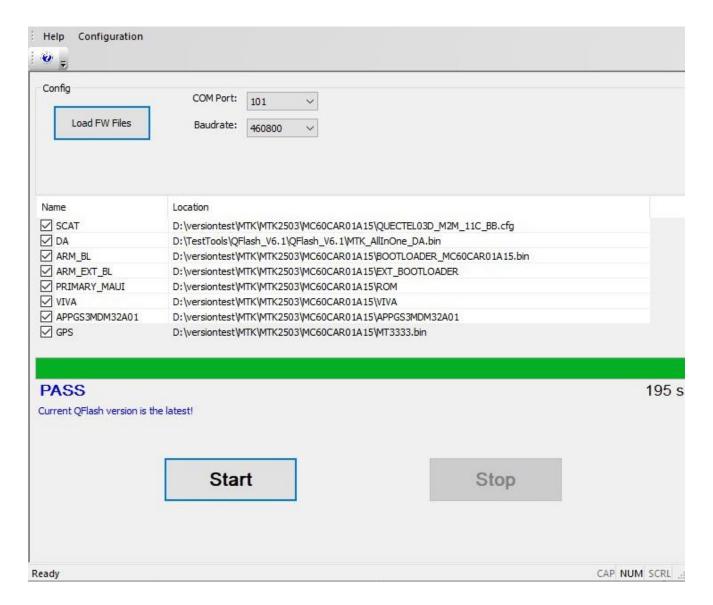


Figure 8: Firmware Upgraded Successfully

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3 Summary of Firmware Upgrade Information

3.1. Summary of Firmware Download Ports

Table 3: Summary of Firmware Download Ports

Product Line	Module	COM Port	Comment		
	RG200U	Quectel USB AT Port	 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, without the need of module resetting. You can also press "BOOT" button when powering on, and then switch to SPRD U2S Diag port for upgrade. 		
5G	RG255C	Quectel USB DM Port			
	RG500L	Quectel USB ETS Port			
	RG500Q	Quectel USB DM Port			
	RG500U	Quectel USB AT Port	 After "Start" button is clicked, the tool will automatically switch to the SPRD U2S Diag port to start the upgrade. After successful 		

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			upgrade, the port loading is resumed automatically, without the need of module resetting.
			2. You can be upgraded by short-circuiting BOOT to J201 to get the SPRD U2S Diag port loaded for upgrade.
	RG520N	Quectel USB DM Port	
	RG525F	Quectel USB DM Port	
	RM500Q	Quectel USB DM Port	
	RM500U	Quectel USB AT Port	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, without the need of module resetting.
	RM520N	Quectel USB DM Port	
	EG06	Quectel USB DM Port	
	EG060W	Power on the module to automatically select Quectel USB Download Port for upgrade	
LTE-Advanced	EG12	Quectel USB DM Port	
	EG18	Quectel USB DM Port	
	EM06	Quectel USB DM Port	
	EM12-G	Quectel USB DM Port	
	EP06	Quectel USB DM Port	

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	EC20-CE	Quectel USB DM Port	
LTE Standard	EC200A	Power on the module to automatically select Quectel USB Download Port for upgrade	
	EC200S	Quectel USB AT Port /Quectel Download Port	 Click "Load FW Files" to select the .zip package to load firmware directly and then select the COM port. If use USB AT port for upgrade, wait for the prompt "getting serial devices list\n"} before clicking "Start" to upgrade. If 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.</com6></com6> Short-circuit BOOT and PL_1V8 to get Quectel Download Port loaded for upgrade.
	EC200U	Quectel USB AT Port	 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 port. You can also short-circuit BOOT and PL_1V8 to get the SPRD U2S Diag port loaded for upgrade.
	EC21	Quectel USB DM Port	
	EC25	Quectel USB DM Port	
	EG21-G	Quectel USB DM Port	
	EG25-G	Quectel USB DM Port	

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	EG91	Quectel USB DM Port	
	EG912Y EG915Q	Quectel USB AT Port / Quectel Download Port	 Click "Load FW Files" to select the .zip package to load firmware directly and then select the COM port. If use USB AT port for upgrade, wait for the prompt "getting serial devices list\n"} before clicking "Start" to upgrade. If 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.</com6></com6> Short-circuit BOOT and PL_1V8 to get Quectel Download Port loaded for upgrade.
		Quectel Download Port	Short-circuit VDD_EXT and USB_BOOT to get Quectel Download Port, and connect the USB cable to GNSS_UART to access the GPS port. Then choose COM port and GPS port respectively, as shown in <i>Figure 9</i> .
	EG95	Quectel USB DM Port	
	EM05	Quectel USB DM Port	
	AG15	Quectel USB DM Port	
	AG215S	Quectel USB DM Port	
Automotive	AG35	Quectel USB DM Port	
	AG509M	Port Selection is Unnecessary	Turn on the USB_BOOT switch, and then only the Android ADB interface will be loaded. Therefore, port selection is unnecessary for
	AG519M	Port Selection is Unnecessary	firmware upgrade with QFlash.

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	AG520R	Quectel USB DM Por	t	
	AG521R	Quectel USB DM Por	t	
	AG525R	Quectel USB DM Por	t	
	AG529R	Quectel USB DM Por	t	
	AG550Q	Quectel USB DM Por	t	
	AG551Q	Quectel USB DM Por	t	
	AG552Q	Quectel USB DM Por	t	
	AG553Q	Quectel USB DM Por	t	
	AG590E	Quectel USB DM Por	t	
	SC20	HS-USB Diagnostics	9091	
	SC66	HS-USB Diagnostics	9091	
	SC200E	HS-USB Diagnostics	9091	
Smart	SC200L	SPRD U2S Diag		Send AT+QDOWNLOAD=1 to obtain the SPRD U2S Diag port for firmware upgrade
	SC668S	HS-USB Diagnostics	9091	
	SG368Z	DL Port(s) DL Automatically	Detected	After connecting the module to the PC, "Rockusb Device" appears in the device manager, and the tool will automatically scan the port.
	SG520B	HS-USB Diagnostics	90DB	

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	SG560D	HS-USB Diagnostics 9091	
	SG865W	Quectel USB DM Port	
	SG885G	HS-USB Android DIAG 901F	
	BC66	USB UART Ch A	
	BC660K	Quectel USB Serial Port	The USB Serial Port (the second loaded port) is used to upgrade firmware.
	BC92	Debug Port (USB Serial Converter B)	
	BC950K	WCH USB-SERIAL CH A	
	BG77	Quectel USB DM Port	
	BG770A	Silicon Labs CP210x USB to UART Bridge	
LPWA	BG95	Quectel USB DM Port	
	BG950A	Silicon Labs CP210x USB to UART Bridge	
	BG951A	Silicon Labs CP210x USB to UART Bridge	 The module firmware is upgraded through 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, as shown in Figure 10.
	BG955A	Silicon Labs CP210x USB to UART Bridge	·

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	BG950S	WCH USB-SERIAL Ch C	The module firmware is upgraded through the third USB-SERIAL port which is displayed as "WCH USB-SERIAL Ch C".
	BG96	Quectel USB DM Port	
	M65	Quectel USB Serial Port	
CCM	M66	Quectel USB Serial Port	
GSM	M95	Quectel USB Serial Port	
	MC60	Quectel USB Serial Port	
	FC41D	Quectel USB Serial Port	
	FCM100D	Quectel USB Serial Port	
	FCM242D	Silicon Labs CP210x USB to UART Bridge	
Wi-Fi&Bluetooth	FCM360W	Silicon Labs CP210x USB to UART Bridge	
	FCM561D	USB- SERIAL- CH340	
	FLM140D	Silicon Labs CP210x USB to UART Bridge	
	HCM010S	JLink CDC UART Port	
Satellite	CC660D	WCH USB-SERIAL CH A	

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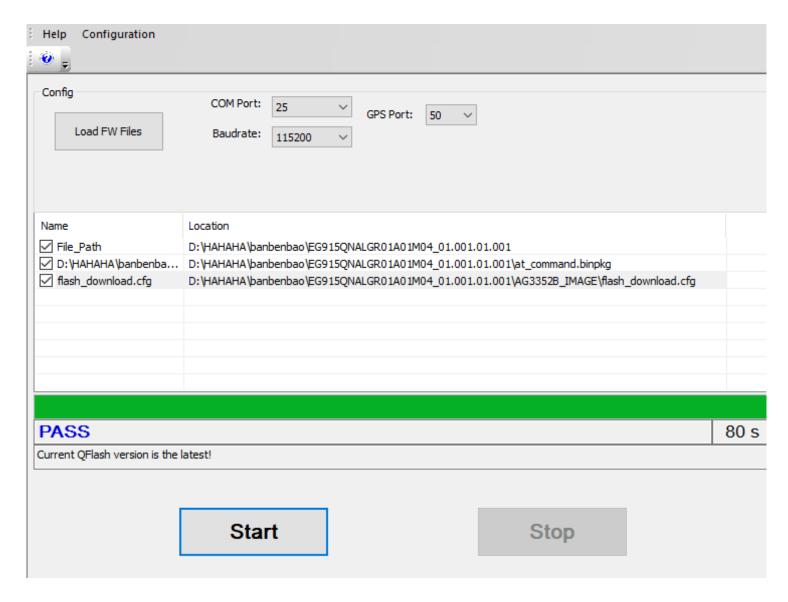


Figure 9: Select Port for EG915Q

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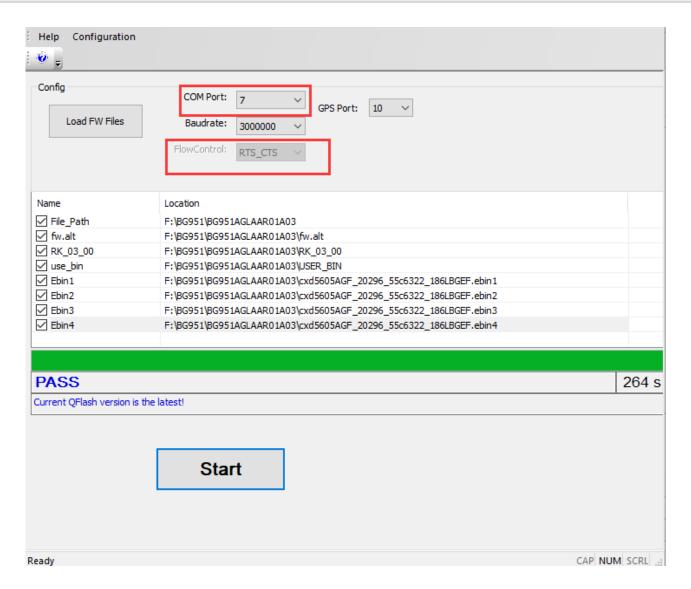


Figure 10: Select Port for BG951A

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3.2. Summary of Firmware Upgrade Baud Rate

Table 4: Summary of Firmware Upgrade Baud Rates

Product Line	Module	Baud Rate	Comment
	RG200U	460800	
	RG255C	460800	
	RG500L	460800	
	RG500Q	460800	
5G	RG500U	460800	
30	RG520N	460800	
	RG525F	460800	
	RM500Q	460800	
	RM500U	460800	
	RM520N	460800	
LTE-Advanced	EG06	460800	
LI E-Auvanceu	EG060W	460800	

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	EG12	460800	
	EG18	460800	
	EM06	460800	
	EM12-G	460800	
	EP06	460800	
	EC20-CE	460800	
	EC200A	460800	
	EC200S	460800	
	EC200U	460800	
	EC21	460800	
LTE Standard	EC25	460800	
LIE Stalldard	EG21-G	460800	
	EG25-G	460800	
	EG91	460800	
	EG912Y	460800	
	EG915Q	460800	
	EG95	460800	

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	EM05	460800
	AG15	460800
	AG215S	460800
	AG35	460800
	AG509M	460800
	AG519M	460800
	AG520R	460800
Automotivo	AG521R	460800
Automotive	AG525R	460800
	AG529R	460800
	AG550Q	460800
	AG551Q	460800
	AG552Q	460800
	AG553Q	460800
	AG590E	460800
Smart	SC20	460800
Smart	SC66	460800

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	SC200E	460800		
	SC200L	460800		
	SC668S	460800		
	SG368Z	460800		
	SG520B	460800		
	SG560D	460800		
	SG865W	460800		
	SG885G	460800		
	BC66	9600		
	BC660K	921600		
	BC92	9600		
	BC950K	921600		
LPWA	BG77	460800		
	BG770A	460800		
	BG95	460800		
	BG950A	460800		
	BG951A	460800		

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	BG955A	460800
	BG950S	460800
	BG96	460800
	M65	921600
GSM	M66	460800
GSIVI	M95	460800
	MC60	460800
	FC41D	460800
	FCM100D	460800
	FCM242D	921600
Wi-Fi&Bluetooth	FCM360W	921600
	FCM561D	921600
	FLM140D	921600
	HCM010S	9600
Satellite	CC660D	460800

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3.3. Summary of Firmware File to Be Downloaded

Table 5: Summary of Firmware File to Be Downloaded

Product Line	Module	Firmware File	Comment
	RG200U	.pac	
	RG255C	.elf	
	RG500L	.xml	
	RG500Q	.mbn	
50	RG500U	.pac	
5G	RG520N	.elf	
	RG525F	.elf	
	RM500Q	.mbn	
	RM500U	.pac	
	RM520N	.elf	
	EG06	.mbn	
LTE-Advanced	EG060W	.zip	
	EG12	.mbn	

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	EG18	.mbn
	EM06	.mbn
	EM12-G	.mbn
	EP06	.mbn
	EC20-CE	.mbn
	EC200A	.zip
	EC200S	.zip
	EC200U	.pac
	EC21	.mbn
	EC25	.mbn
LTE Standard	EG21-G	.mbn
	EG25-G	.mbn
	EG91	.mbn
	EG912Y	.zip
	EG915Q	.cfg
	EG95	.mbn
	EM05	.mbn
Automotive	AG15	.elf

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	AG215S	.elf
	AG35	.elf
	AG509M	.py
	AG519M	.py
	AG520R	.elf
	AG521R	.elf
	AG525R	.elf
	AG529R	.elf
	AG550Q	.elf
	AG551Q	.elf
	AG552Q	.elf
	AG553Q	.elf
	AG590E	.mbn
	SC20	.elf
	SC66	.elf
Smart	SC200E	.elf
	SC200L	.pac
	SC668S	.elf

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	SG368Z	fw.roc	
	SG520B	.elf	
	SG560D	.elf	
	SG865W	.elf	
	SG885G-WF	.elf	
	BC66	.cfg	
	BC660K	.bin	
	BC92	.lod	
	BC950K	.bin	
	BG77	.elf	
I DVA/A	BG770A	fw.alt	
LPWA	BG95	.elf	
	BG950A	fw.alt	
	BG951A	fw.alt	
	BG955A	fw.alt	
	BG950S-GL	fw.alt	
	BG96	.mbn	
GSM	M65	.lod	For M65 QuecOpen module, please select the .lod file.

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			For M66 QuecOpen module, please select the .cfg file.
	M66	.cfg	2. After that, click the "Module Type" drop-down list and select the
			corresponding module, as shown in <i>Figure 11</i> .
	M95	.cfg	
			For MC60 QuecOpen module, please select the .cfg file.
	MC60	.cfg	2. After that, click the "Module Type" drop-down list and select the
			corresponding module, as shown in <i>Figure 11</i> .
	FC41D	.bin	
Wi-Fi&Bluetooth	FCM100D	.bin	
	FCM242D	.bin	
	FCM360W	.bin	
	FCM561D	.bin	
	FLM140D	.bin	
	HCM010S	.hex	
Satellite	CC660D	.cfg	

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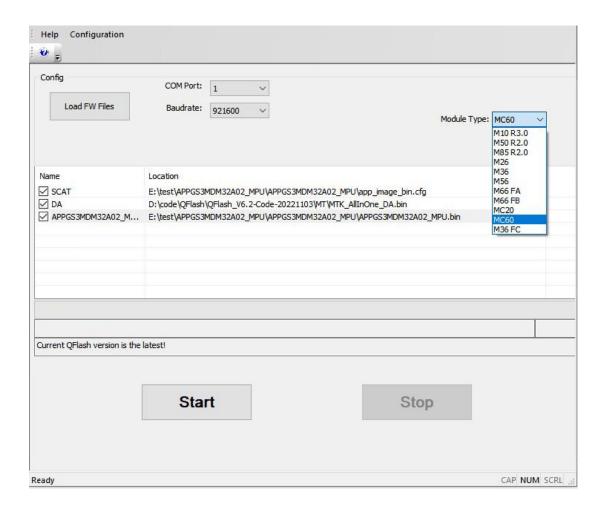


Figure 11: Select the Module Type

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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.

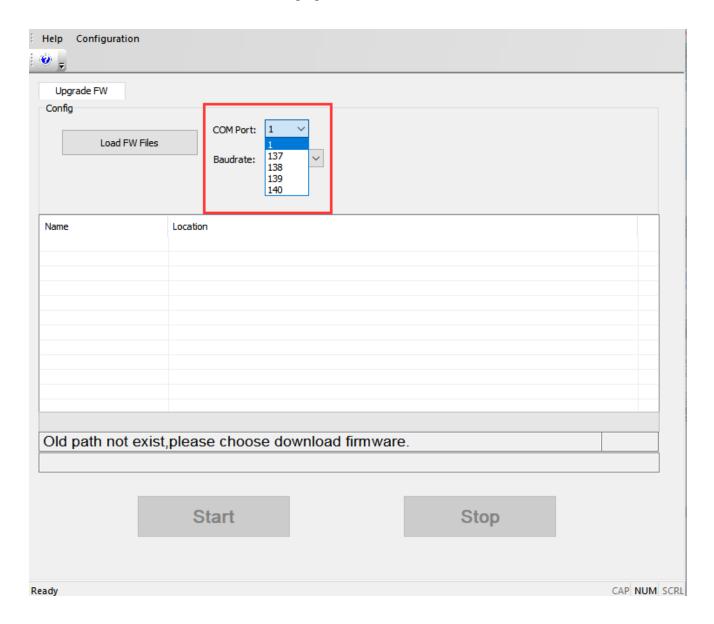


Figure 12: Select the Serial Port of BG96 Module

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

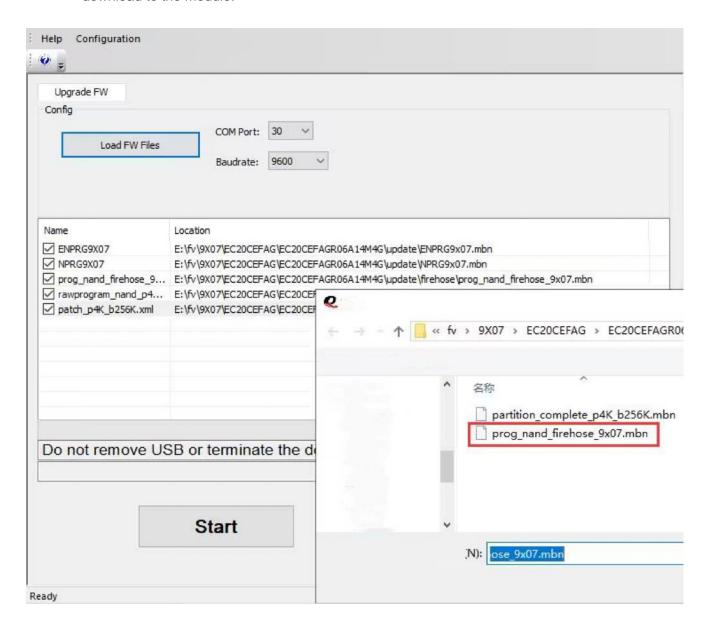


Figure 13: Select the File to Be Downloaded

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

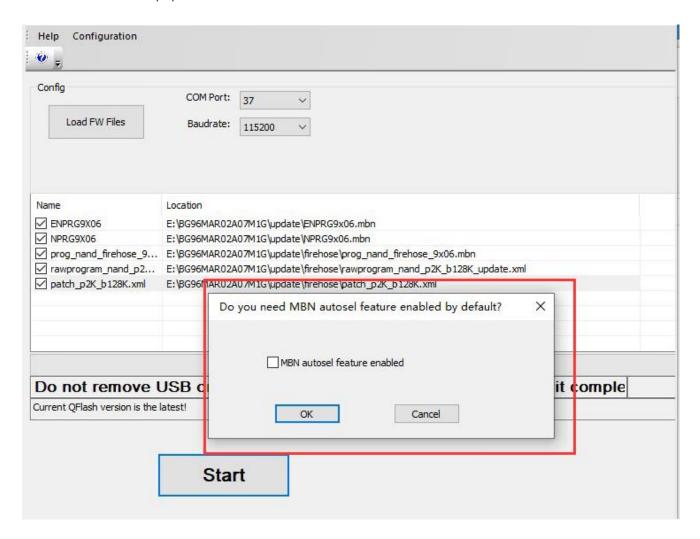


Figure 14: Select MBN Autosel Function

NOTE

- Make sure there is an mbn folder in the selected firmware version package before upgrading.
- 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".

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

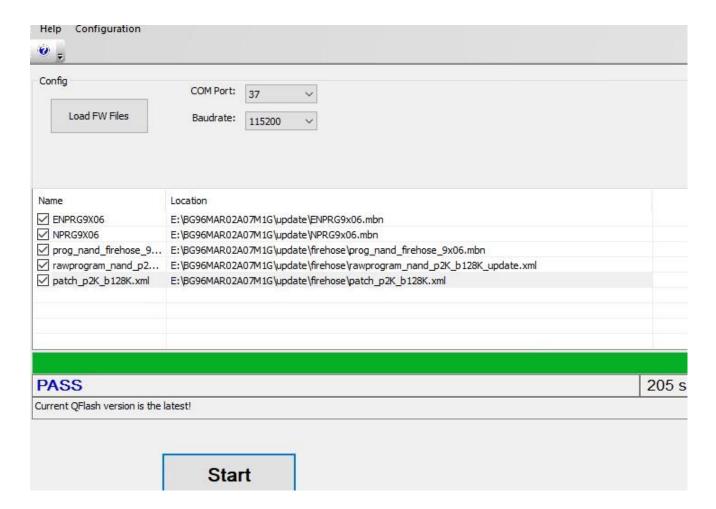


Figure 15: MBN Files Upgraded Successfully for BG96

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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.

5.1. Selected a Wrong Serial Port

For M66, M95 and MC60 modules, if the serial port selection is incorrect, then the prompt will be as follow:

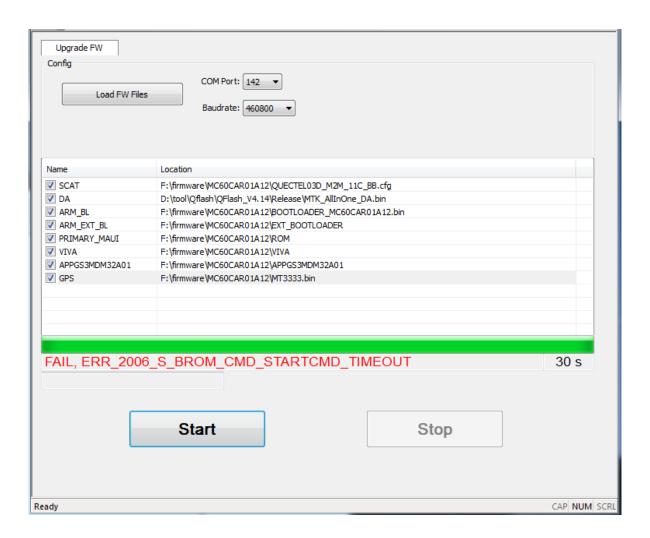


Figure 16: Connected to a Wrong Serial Port (Example 1)

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NOTE

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

For M65 module, if the serial port selection is incorrect, then the prompt will be as follow:

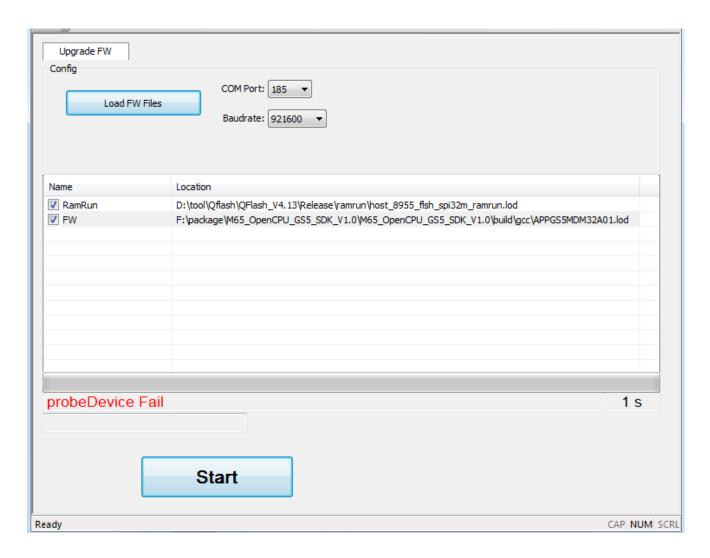


Figure 17: Connected to a Wrong Serial Port (Example 2)

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For RG500Q, RM500Q, EP06, EG06, EM06, EG12, EM12-G, EG18, EC20-CE, EC21, EC25, EG21-G, EG25-G, EG91, EG95, EM05, AG15, AG35, AG215S, AG520R, AG521R, AG525R, AG529R, AG550Q, AG551Q, AG552Q, AG553Q, BG77, BG95 and BG96 modules, if the serial port selection is incorrect, then the prompt will be as follow:

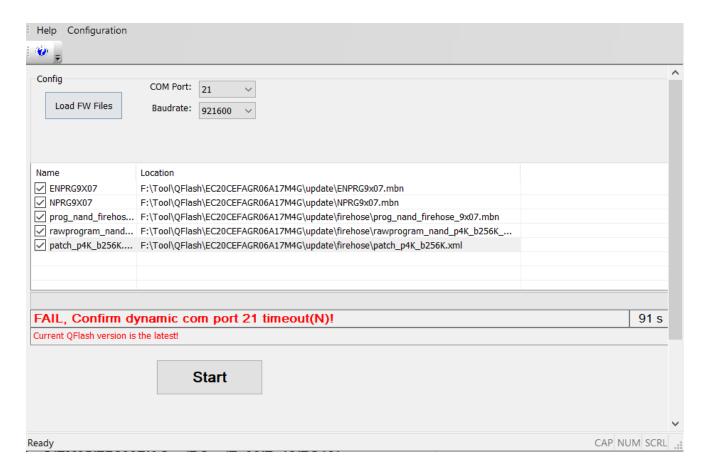


Figure 18: Connected to a Wrong Serial Port (Example 3)

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For SC20, SC66 and SC200E modules, if the serial port selection is incorrect, then the prompt will be as follow:

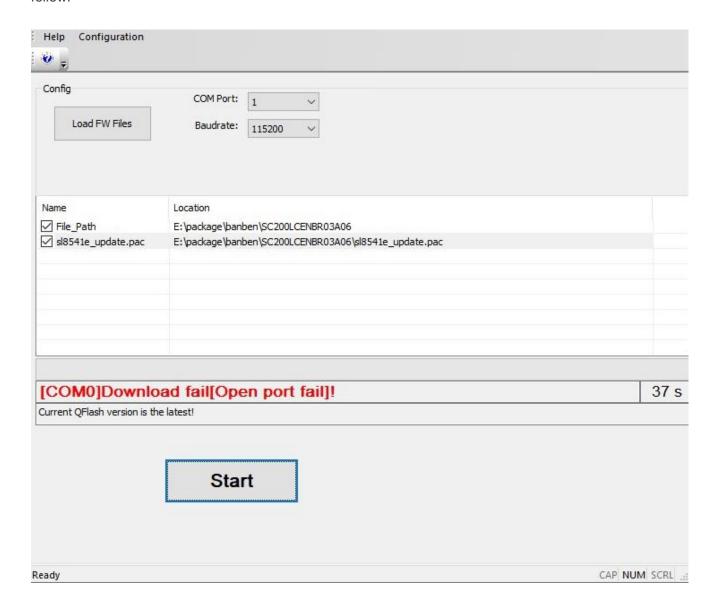


Figure 19: Connected to a Wrong Serial Port (Example 4)

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For BC66, BC92, BC660K and BC950K modules, if the serial port selection is incorrect, then the prompt will be as follow:

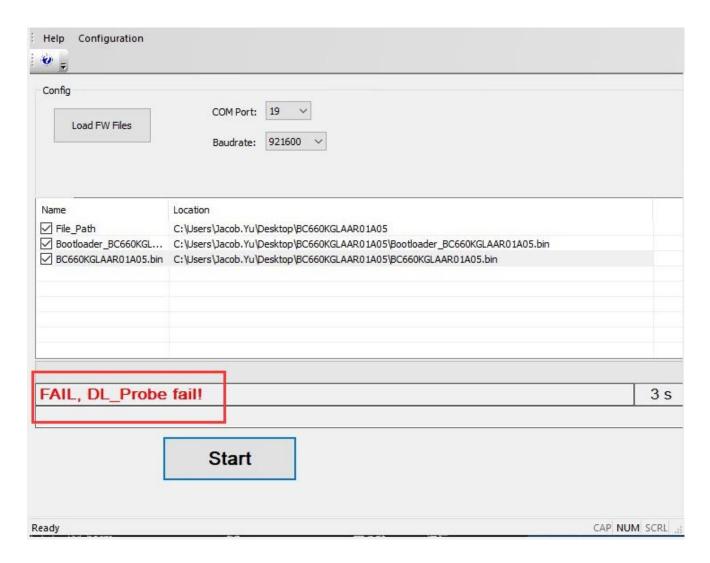


Figure 20: Connected to a Wrong Serial Port (Example 5)

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5.2. Connected to an Occupied Serial Port

For RG500Q, RM500Q, EP06, EG06, EM06, EG12, EM12-G, EG18, EC20-CE, EC21, EC25, EG21-G, EG25-G, EG91, EG95, EM05, AG15, AG35, AG215S, AG520R, AG521R, AG525R, AG529R, AG550Q, AG551Q, AG552Q, AG553Q, SC20, SC66, SC200E, BG77, BG95 and BG96 modules, if the connected serial port is occupied, then the prompt will be as follow:

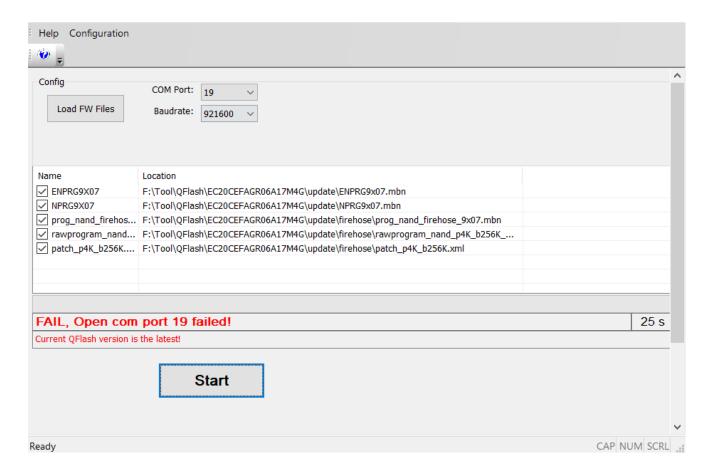


Figure 21: Connected to an Occupied Serial Port (Example 1)

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For BC66, BC92, BC660K and BC950K modules, if the connected serial port is occupied, then the prompt will be as follow:

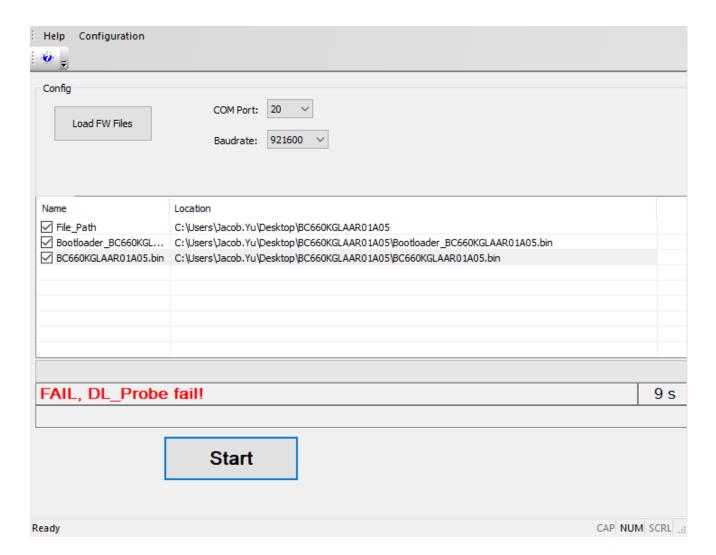


Figure 22: Connected to an Occupied Serial Port (Example 2)

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5.3. Selected an Unsupported Baud Rate

For M66, M95 and MC60 modules, if the selected baud rate is unsupported, then the prompt will be as follow:

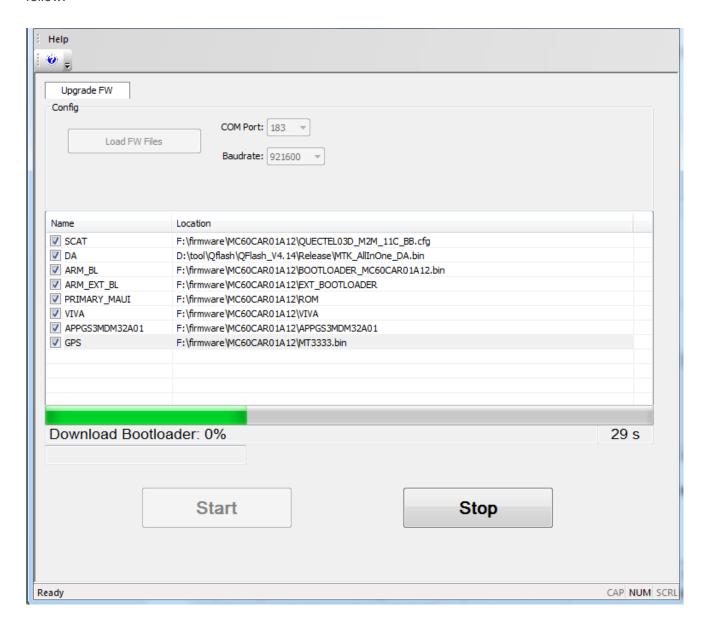


Figure 23: Selected an Unsupported Baud Rate

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.

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5.4. Selected an Invalid FW File

For M65 module, if the selected firmware file is invalid, then the prompt will be as follow:

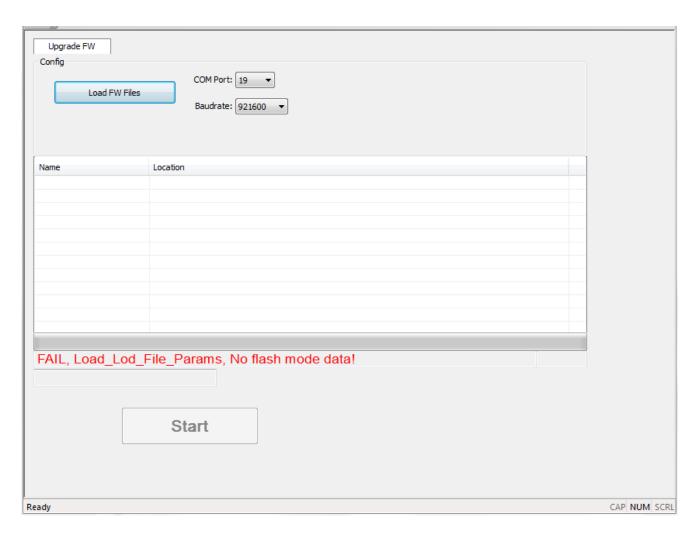


Figure 24: Selected an Invalid FW File (Example 1)

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For EC20-CE, EC21, EC25, EG91, EG95 and EM05 modules, if the selected firmware file is invalid, then the prompt will be as follow:

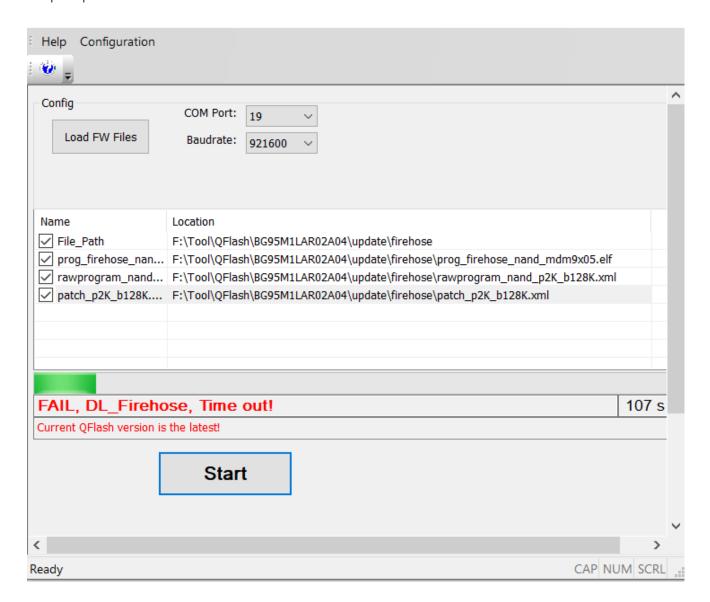


Figure 25: Selected an Invalid FW File (Example 2)

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For EP06, EG06, EM06, EG12, EM12-G, EG18, AG15, AG35, AG215S, AG520R, AG521R, AG525R, AG529R, AG550Q, AG551Q, AG552Q, AG553Q and BG96 modules, if the selected firmware file is invalid, then the prompt will be as follow:

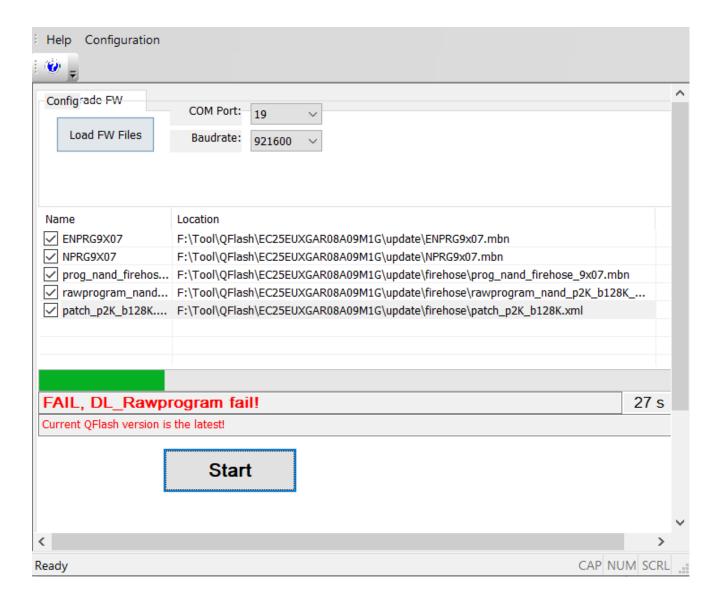


Figure 26: Selected an Invalid FW File (Example 3)

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For SC668S module, if the selected firmware file is invalid, then the prompt will be as follow:

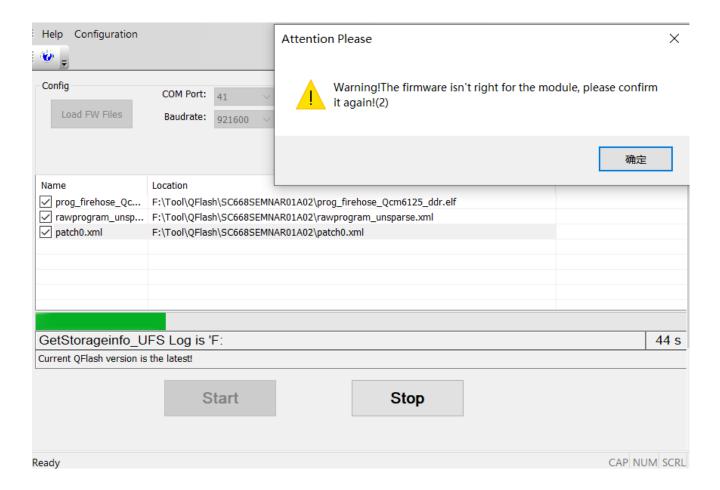


Figure 27: Selected an Invalid FW File (Example 4)

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.

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5.5. Power Supply is Abnormal

For RG500Q, RM500Q, EP06, EG06, EM06, EG12, EM12-G, EG18, EC20-CE, EC21, EC25, EG21-G, EG25-G, EG91, EG95, EM05, AG15, AG35, AG215S, AG520R, AG521R, AG525R, AG529R, AG550Q, AG551Q, AG552Q, AG553Q, BG77, BG95 and BG96 modules, If the power supply is abnormal during the upgrade process, then the prompt will be as follow:

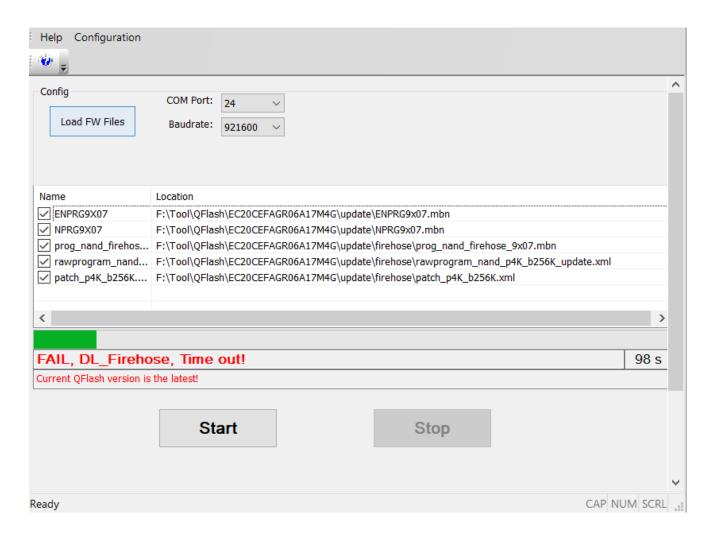


Figure 28: Abnormal Power Supply (Example 1)

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For SC20, SC66 and SC2000E modules, If the power supply is abnormal during the upgrade process, then the prompt will be as follow:

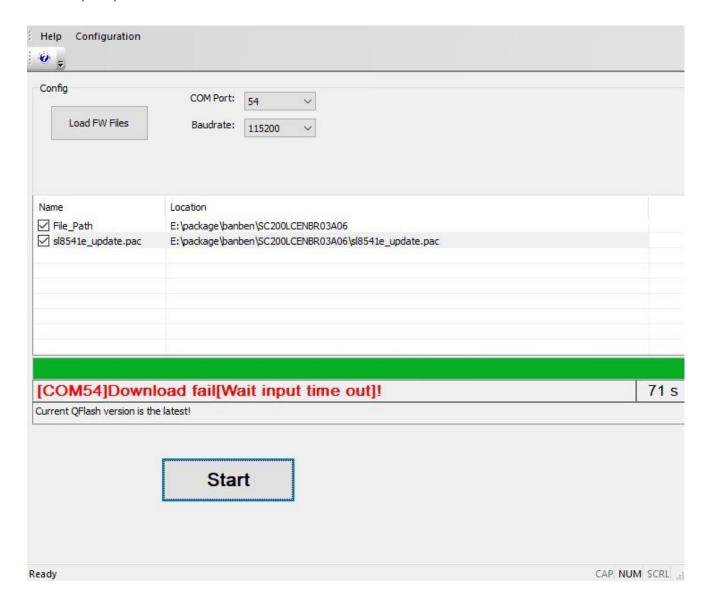


Figure 29: Abnormal Power Supply (Example 2)

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For BC66, BC92, BC660K and BC950K modules, If the power supply is abnormal during the upgrade process, then the prompt will be as follow:

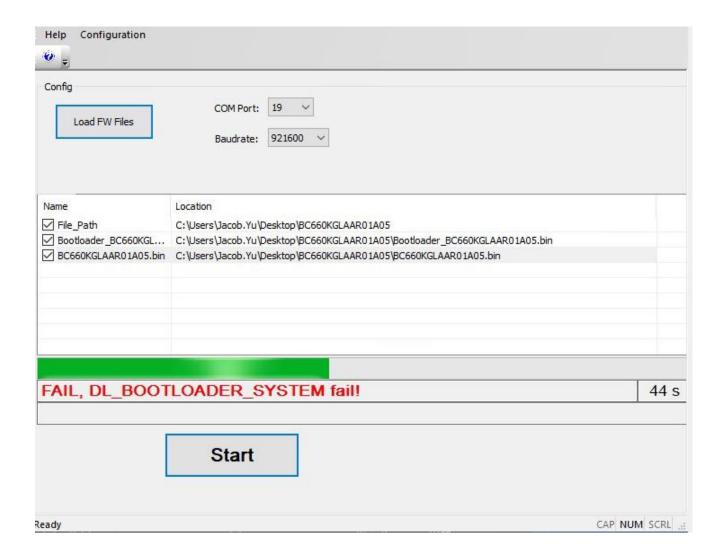


Figure 30: Abnormal Power Supply (Example 3)

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