GV57MG V2(Plus) Firmware Upgrade User Guide

TRACGV57MG V2FU001

V1.01



Driving Smarter IoT

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History

Version	Date	Author	Description of Change
1.00	June 13, 2023	Jane Wang	Initial.
1.01	April 3, 2024	Jane Wang	Modify GV57MG V2 to GV57MG V2(Plus).

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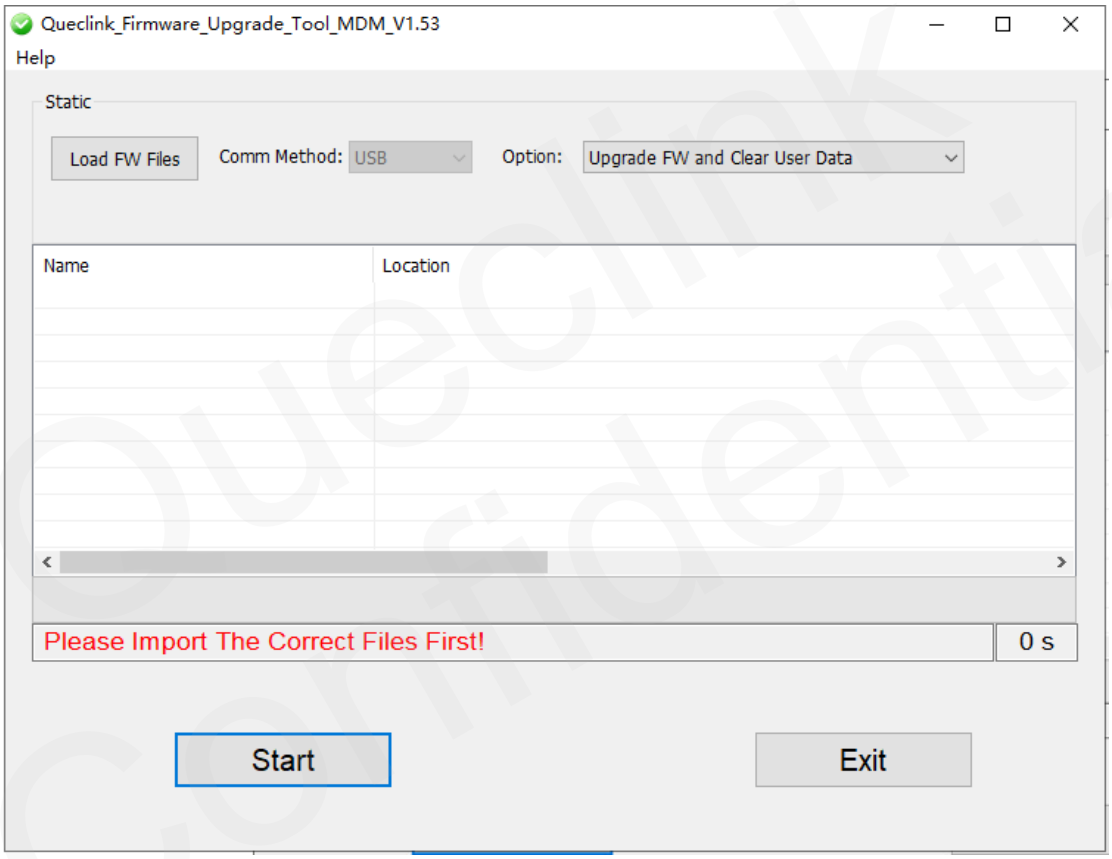
1. Firmware Upgrade Through USB

Queclink_Firmware_Upgrade_Tool_MDM is a PC tool that can be used to upgrade firmware provided by Queclink.

The tool can run directly on a PC with no installation required and can run on all Windows operating systems. You will receive a notification when there is an upgrade of this tool provided by Queclink.

1.1. Tool Introduction

The following shows the main interface of the tool.



Main Interface

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1.2. Upgrade Preparation

Get the following list of items ready:

Name	Picture	Use
GV57MG V2(Plus)		
GV57MG V2(Plus) USB Cable (Optional)		1. Driver: Quectel_LTE_Windows_USB_Driver_V1.0 2.Interface type: USB 3.Main function: Upgrade firmware
GV57MG V2(Plus) UART Cable (Optional)		1.Driver: PL2303_Prolific_DriverInstaller_v1190 2.Interface type: UART 3.Main function: a. Upgrade firmware b. Set the command to the device
Upgrade Tool	Queclink_Firmware_Upgrade_Tool_MDM	
File	FULL package	

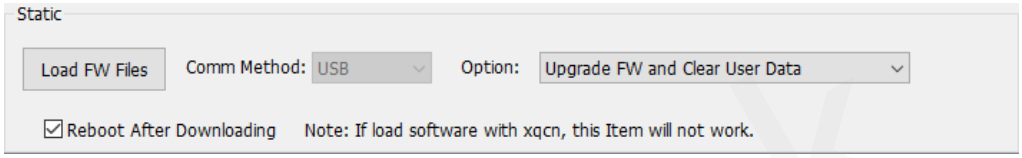
1.3. Upgrade Process

Firstly, make sure the upgrade cable is connected to the PC. Then open Queclink_Firmware_Upgrade_Tool_MDM Vx.xx.exe and configure basic information in the tool, including “Load FW Files” and “Option”.

Option

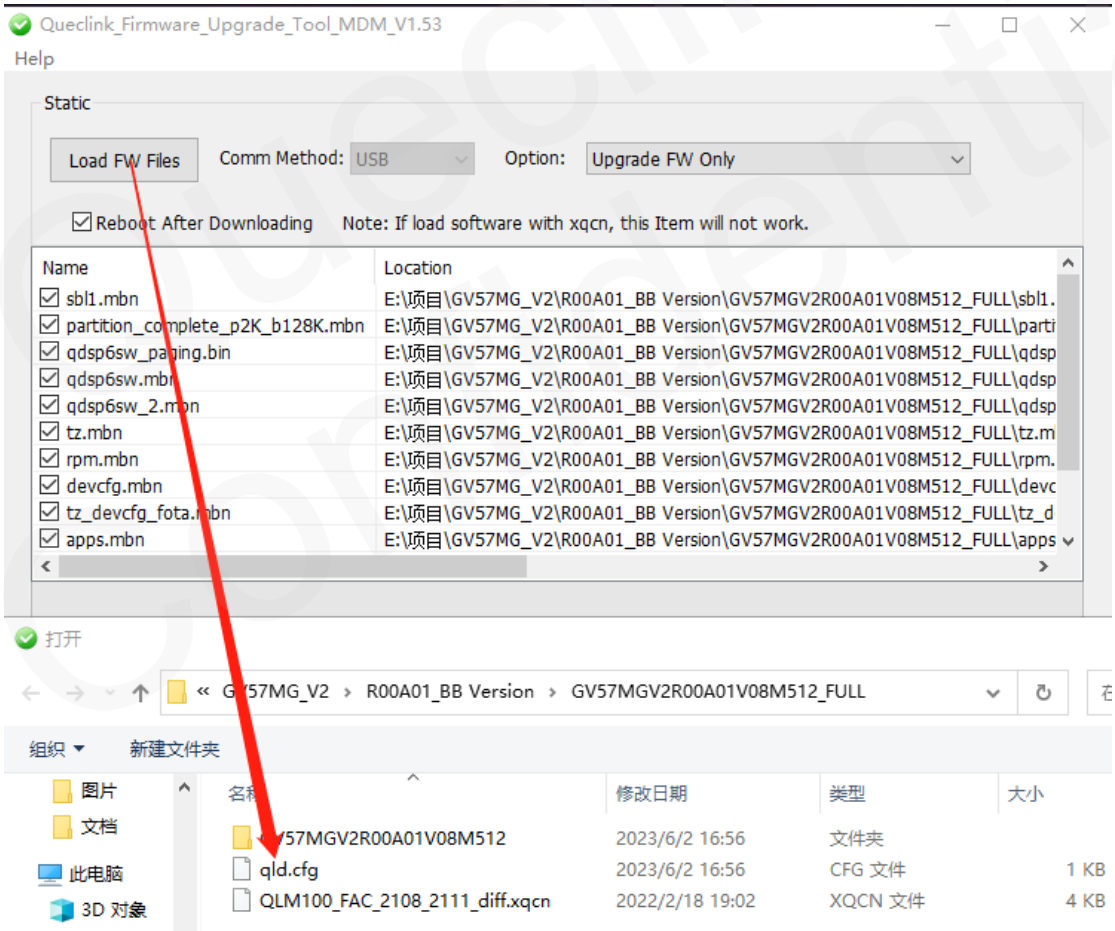
Upgrade FW Only: upgrade the firmware and keep the configuration.

Upgrade FW and Clear User Data: upgrade the firmware and reset the configuration to default value, but **GTBSI, GTSRI**, and “password” in **GTCFG** will keep unchanged.



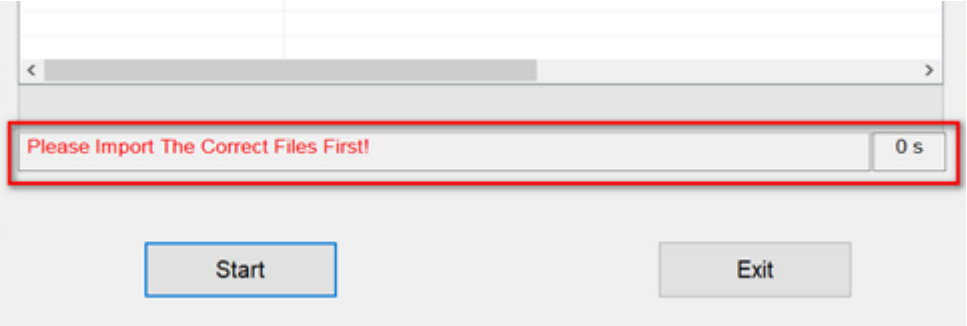
Basic Setting

Click **Load FW Files**, then select **qld.cfg** file in the **Firmware Image** folder.



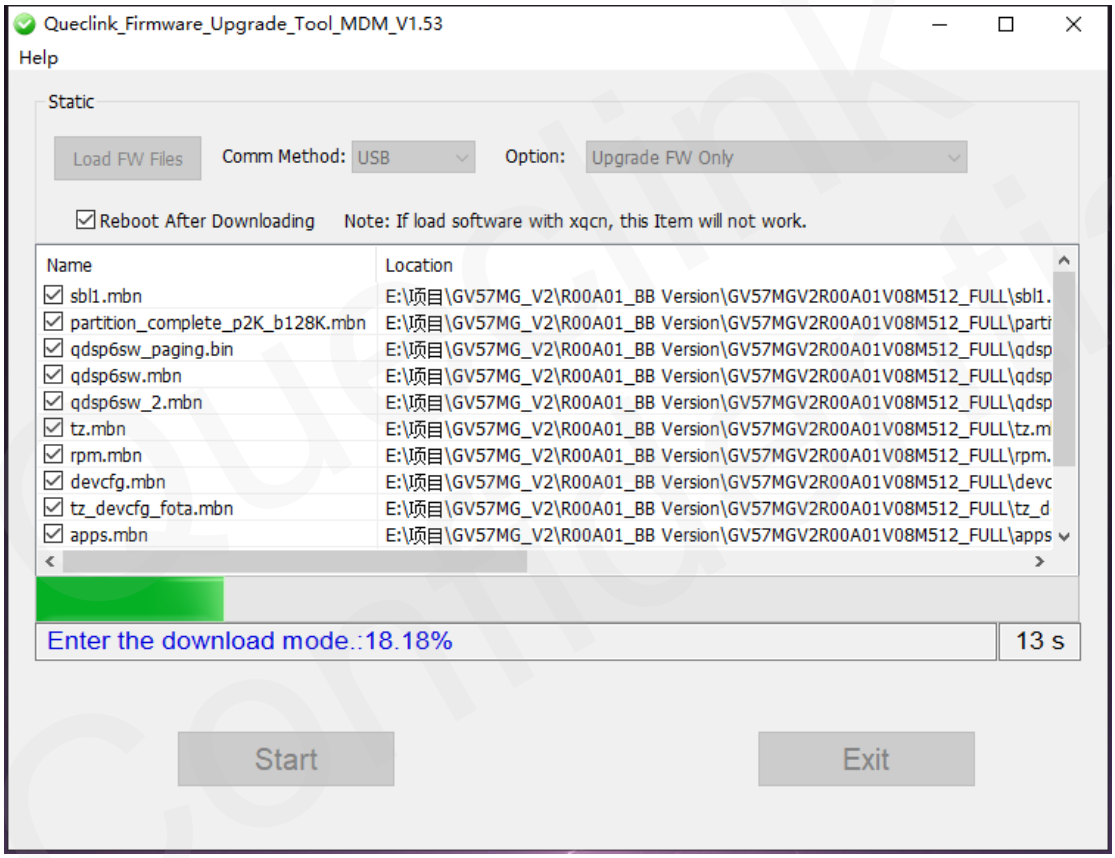
Loading FW Files

Please check your device type before the upgrade. If the firmware files don’t match the device, an error message will appear as shown.

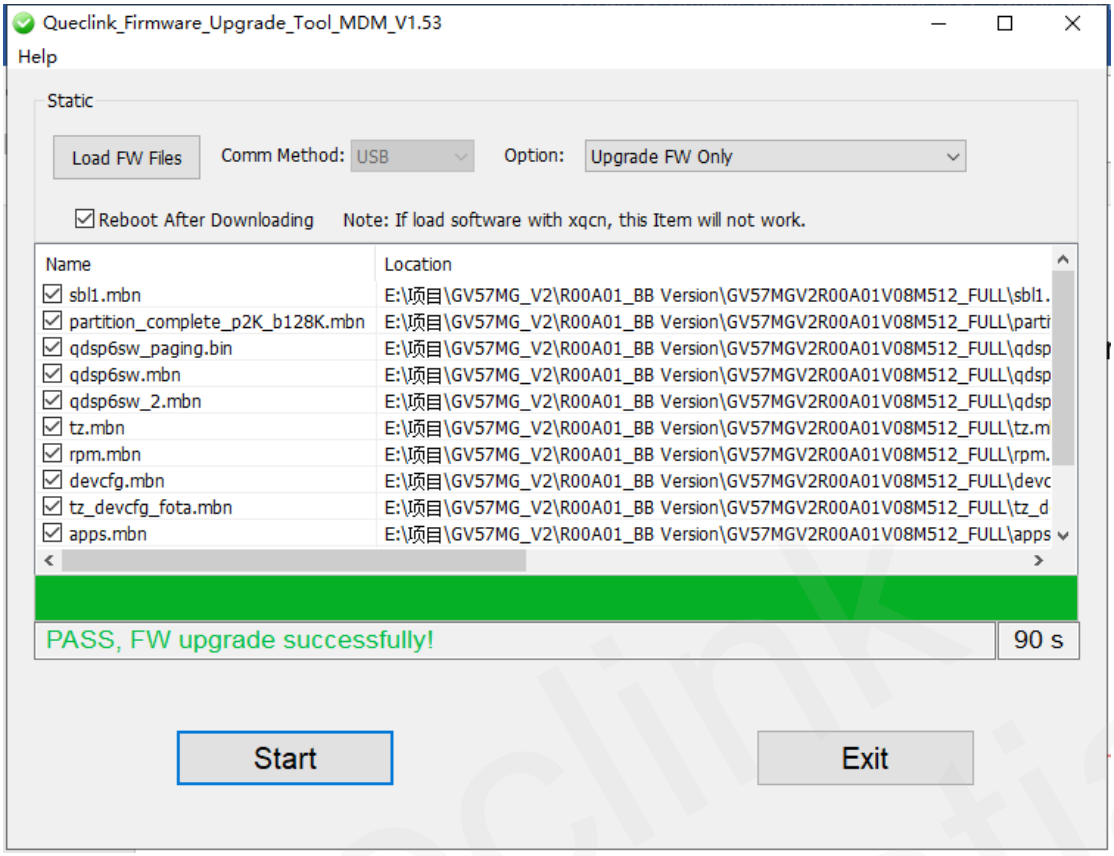


FW File Error

Make sure to power up the device with the external power supply, and then click **Start** to start the upgrade. The device can't be upgraded when the external power supply is disconnected.



Enter the Download Mode



Upgrade Completed

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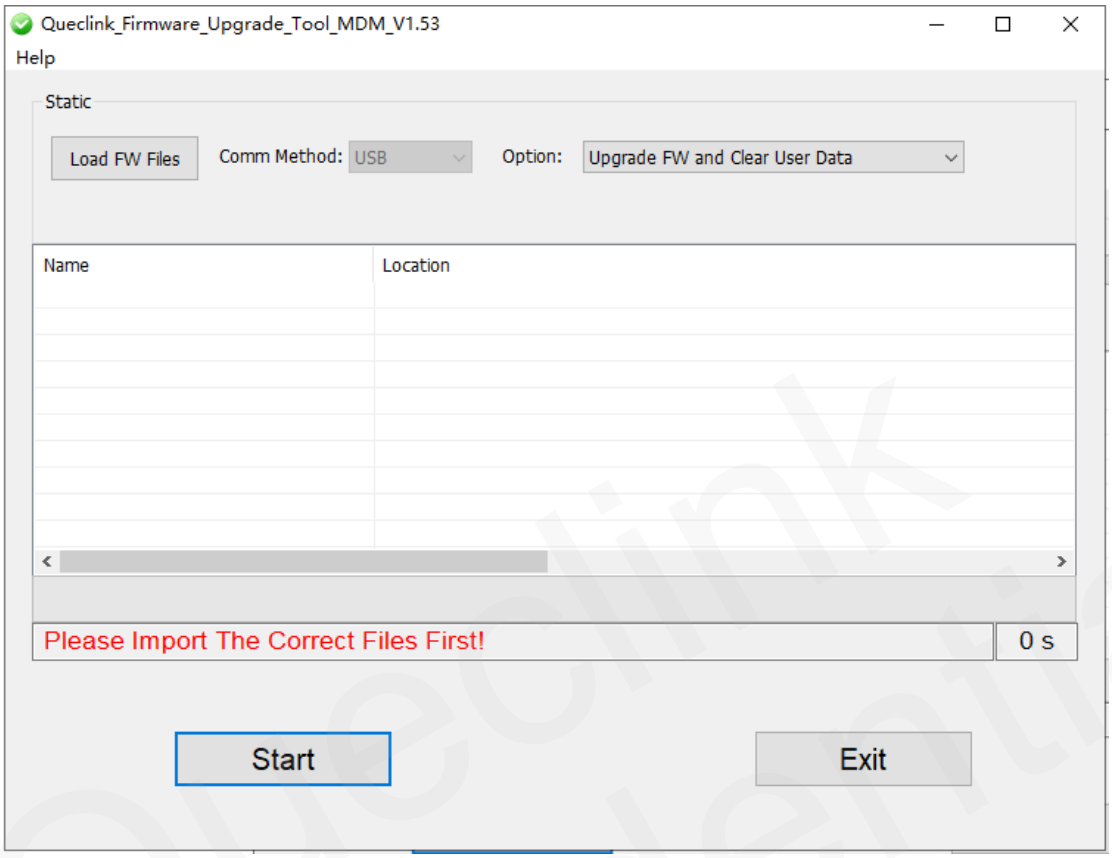
1.4. Troubleshooting

1.4.1. Port Error



Fail to Import Files

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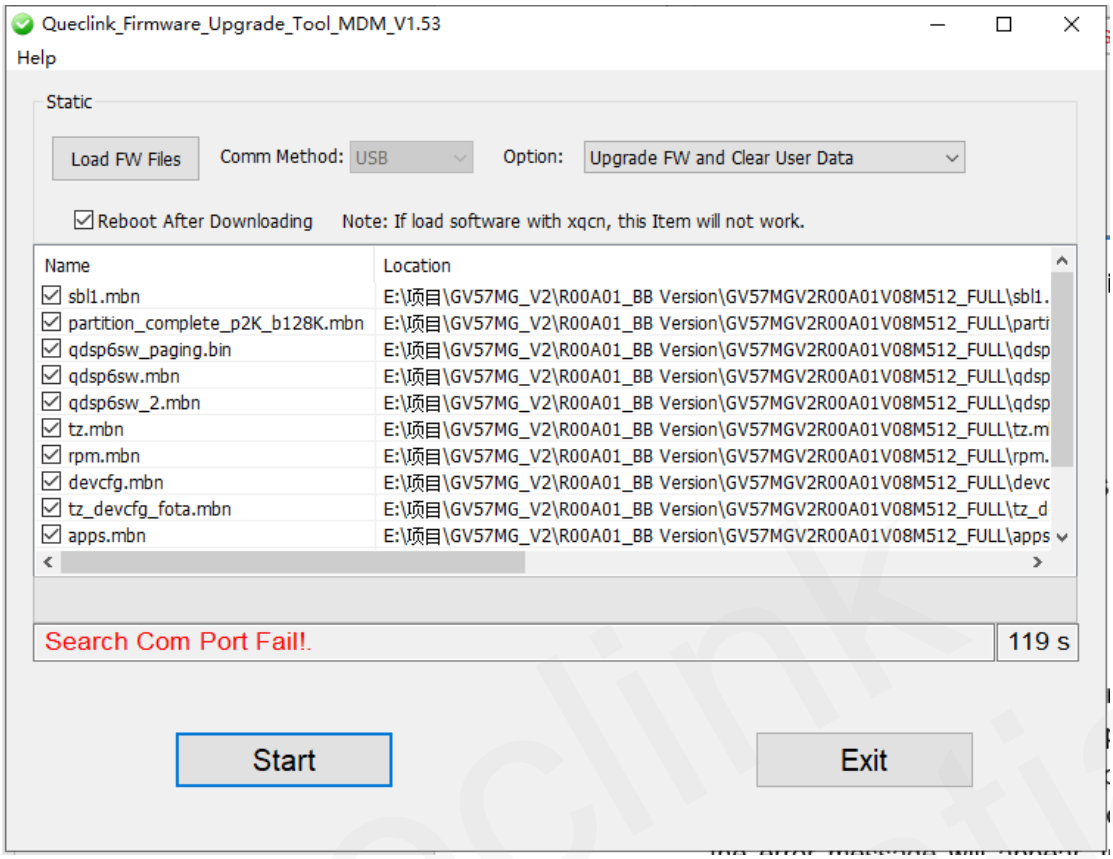

The USB port is unavailable

1.4.2. Caution

a) If the USB port keeps disconnecting while downloading the firmware, the upgrade tool will stop downloading and prompt Download Fail in seconds. In this case, please disconnect the external power supply, reconnect and try again.

b) If the upgrade tool is closed while downloading the firmware, open the upgrade tool but the error message will appear. In this case, please disconnect the external power supply, reconnect and try again.

c) If other unexpected errors occur, please disconnect the external power supply, reconnect and try again.

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2. MCU Firmware Upgrade Through USB

2.1. Upgrade Preparation

Get the following list of items ready:

Name	Picture	Use
GV57MG V2(Plus) Locator		
GV57MG V2(Plus) USB Cable (Optional)		Upgrade firmware Driver: Quectel_LTE_Windows_USB_Driver_V1.0 **Note**: Before upgrading the firmware with the tool, please install the driver.
Upgrade Tool	Queclink_MCU_Firmware_Upgrade_Tool_GBL	
File	MCU Firmware Image	

2.2. Tool Introduction

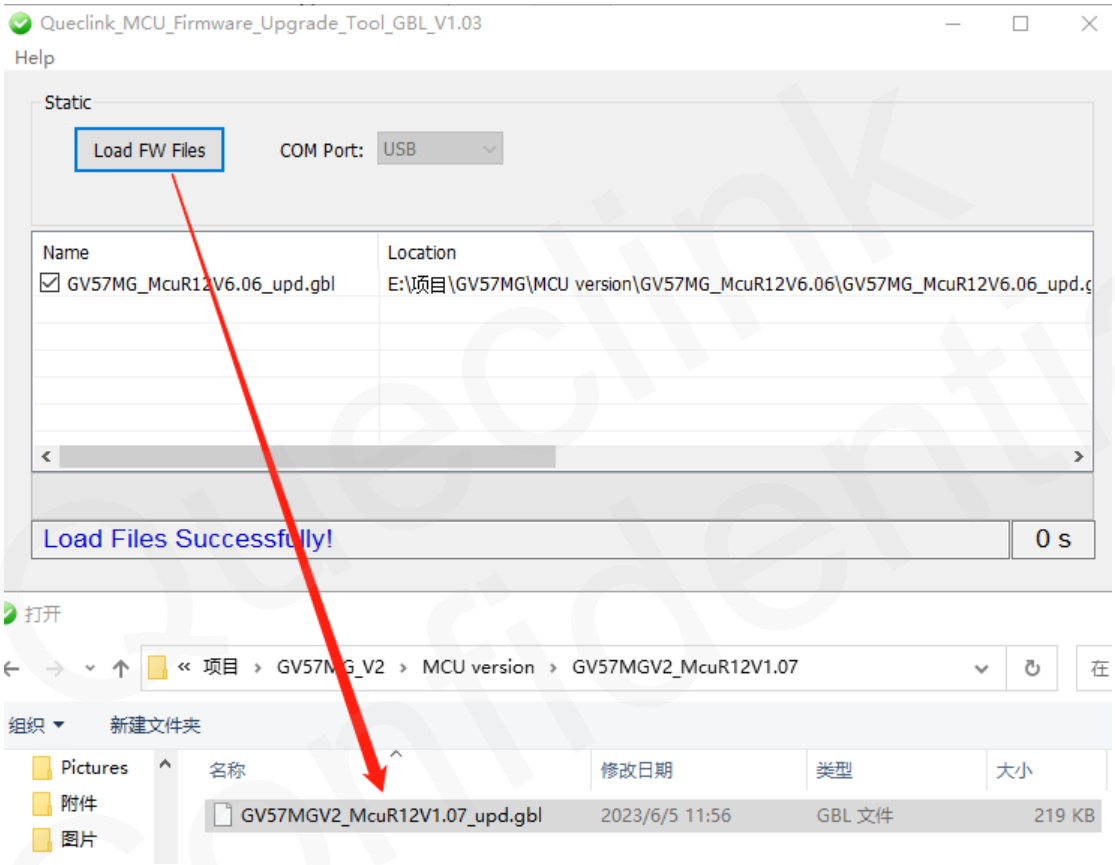
Queclink_MCU_Firmware_Upgrade_Tool_GBL is a PC tool that can be used to upgrade MCU firmware provided by Queclink.

The tool can run directly on a PC with no installation required and can run on all Windows

operating systems. You will receive a notification when there is an upgrade of this tool provided by Queclink.

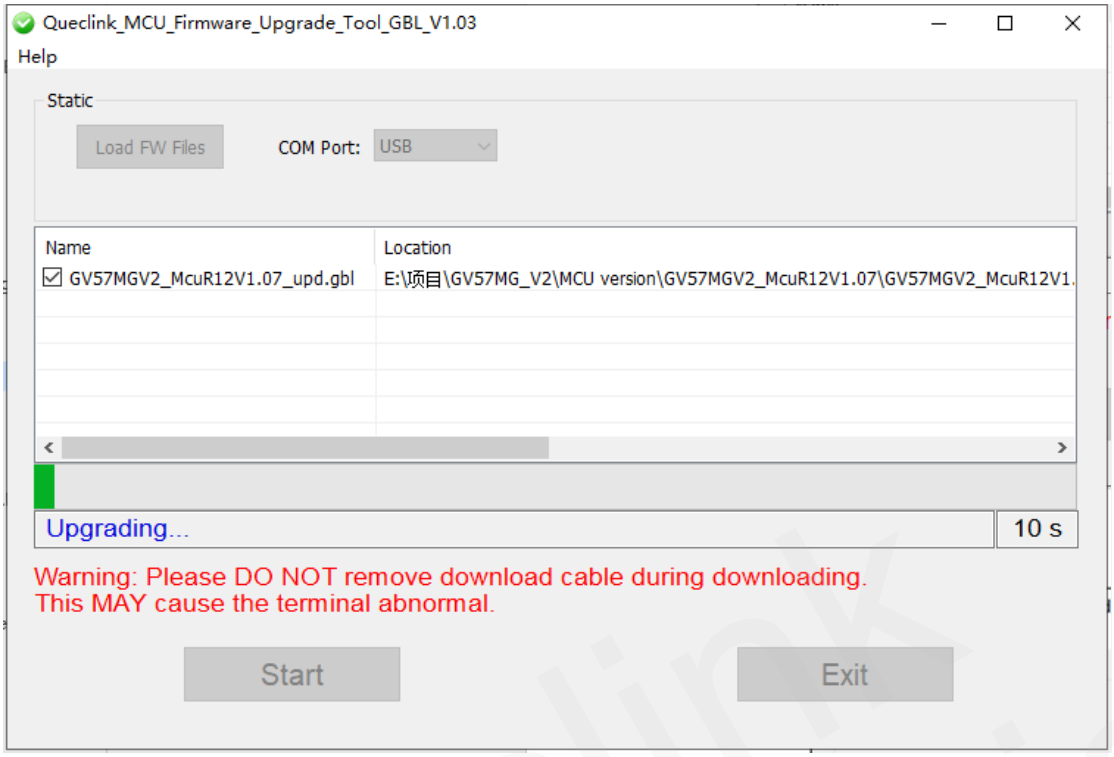
2.3. Upgrade Process

Firstly, make sure the upgrade cable is connected to the PC. Then open Queclink_MCU_Firmware_Upgrade_Tool_GBL Vx.xx.exe and configure basic information in the tool. Click **Load FW Files**, then select “xxxx_upd.gbl” file in **MCU Firmware Image** folder.

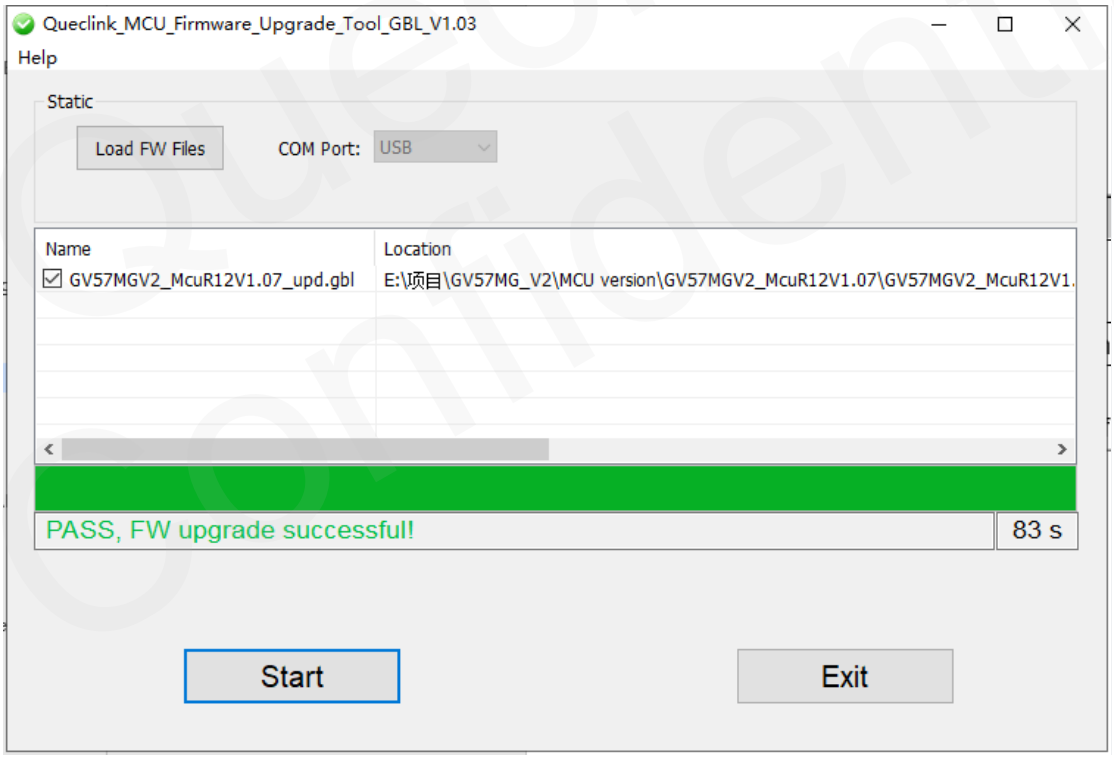


Load FW File

Make sure to power up the device with the external power supply, and then click **Start** to start the upgrade. The device can’t be upgraded when the external power supply is disconnected.



Upgrading



Upgrade is Completed

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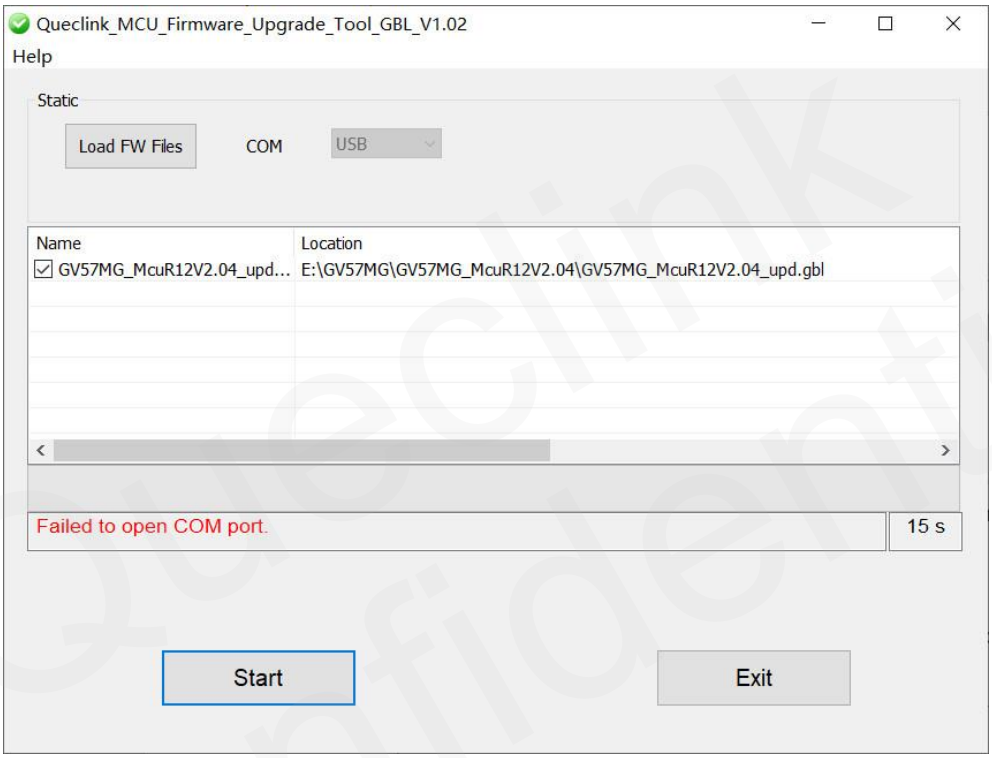
2.4. Troubleshooting

Possible Reason	Solution
The ports do not appear.	Connect the device to the PC, and wait several seconds to confirm that the ports are generated.
The upgrade cable is broken.	Change another upgrade cable.
The driver installation for the upgrade cable is unsuccessful.	Reboot the PC and try again.

2.4.1. Port Error



The USB port is unavailable

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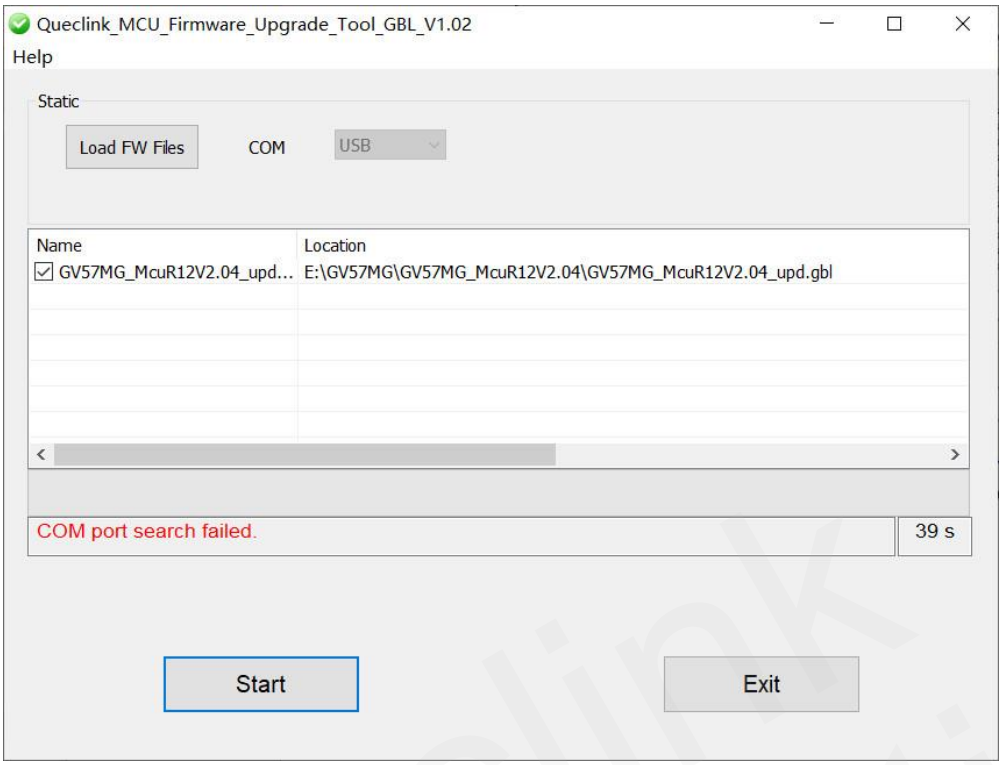
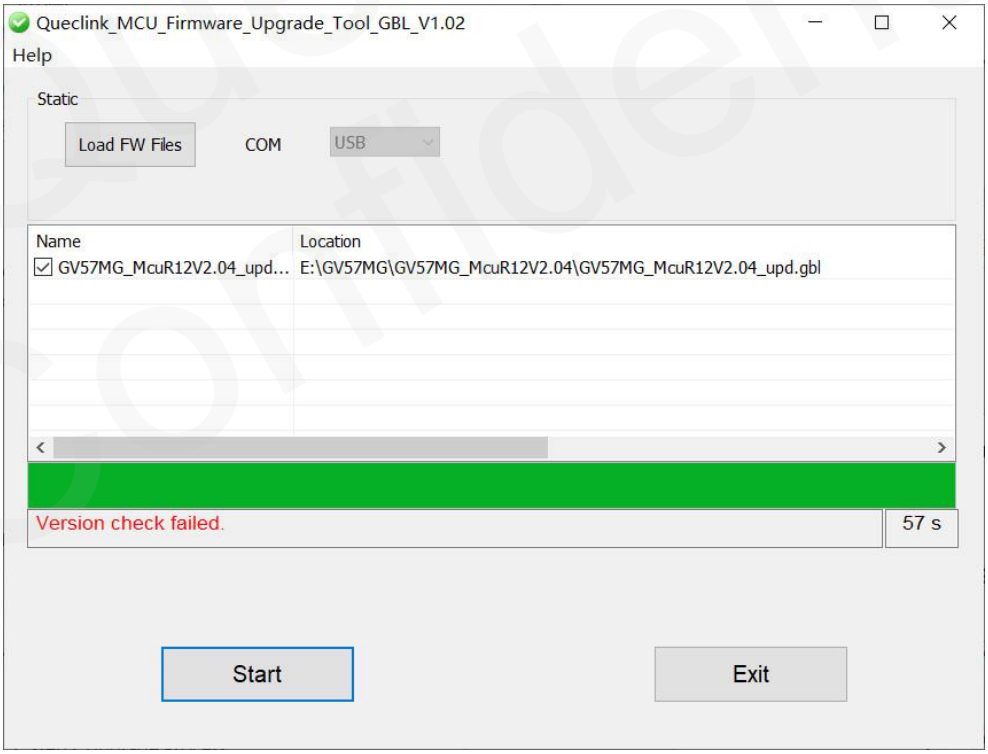


Failed to upgrade because the USB port is disconnected



MCU firmware version is incorrect

2.4.2. Caution

a) If the USB port keeps disconnecting while downloading the firmware, the upgrade tool

will stop downloading and prompt Download Fail in seconds. In this case, please disconnect the external power supply, reconnect, and try again.

b) If the upgrade tool is closed while downloading the firmware, open the upgrade tool but the error message will appear. In this case, please disconnect the external power supply, reconnect, and try again.

c) If other unexpected errors occur, please disconnect the external power supply, reconnect, and try again.

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3. Firmware Upgrade Through UART

3.1. Upgrade Preparation

Get the following list of items ready:

Name	Picture	Use
GV57MG V2(Plus)		
GV57MG V2(Plus) UART Cable (Optional)		Driver: PL2303_Prolific_DriverInstaller_v1190 2.Interface type: UART 3.Main function: a. Upgrade firmware b. Set the command to the device
Upgrade Tool	Queclink_Firmware_Upgrade_Tool_MDM	
File	Firmware UPD Package	Upgrade firmware
	MCU Firmware Image	Upgrade MCU firmware

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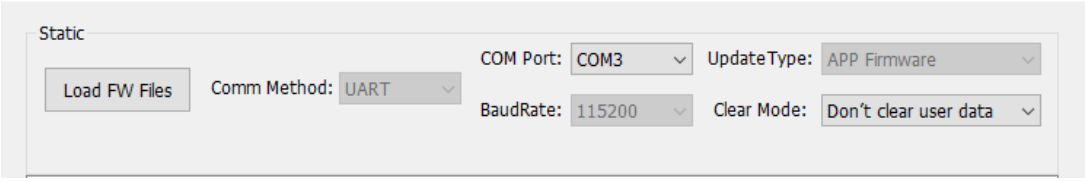
3.2. Upgrade Firmware

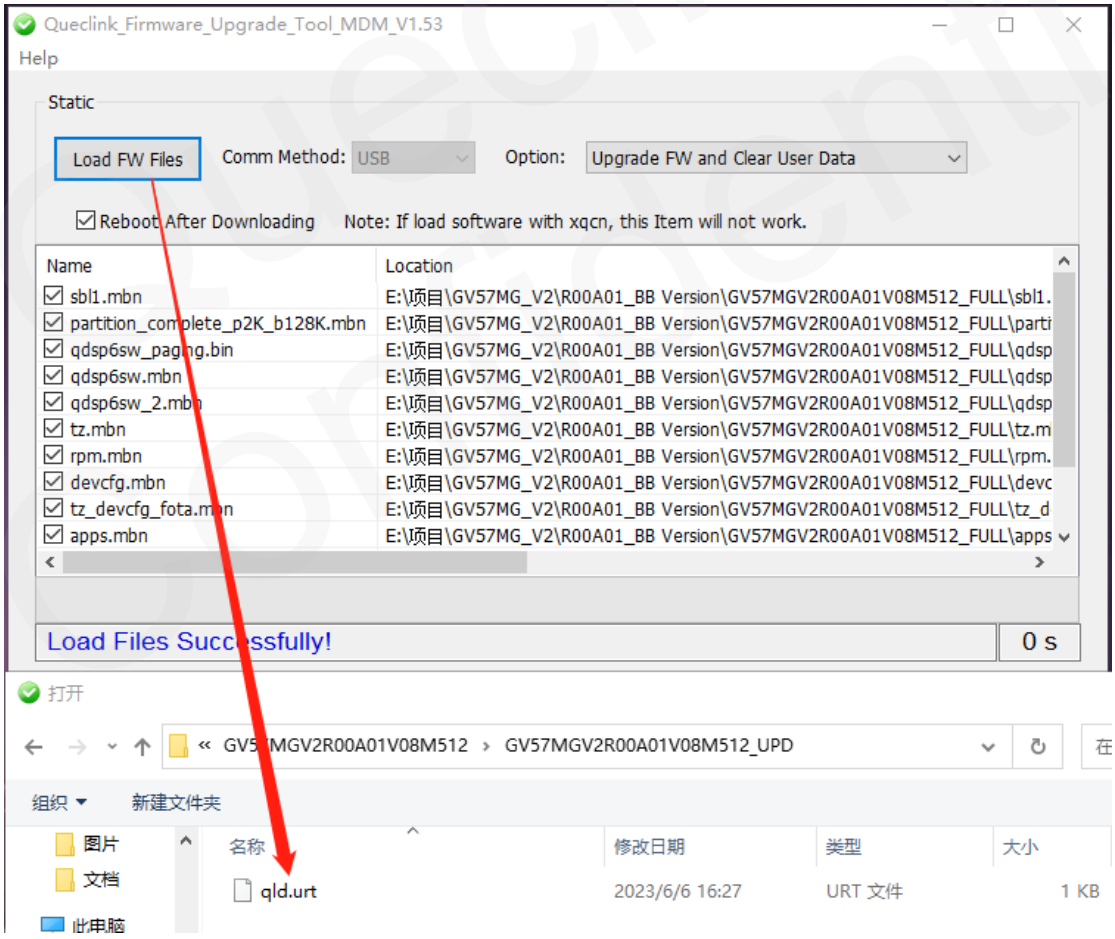
Power on the device, connect the device to the PC through the UART cable.
Open Queclink_Frimware_Upgrade_Tool_MDM_Vx.xx.exe, select **COM Port** and **Clear Mode** in basic setting.



Basic Setting

Clear Mode
Don't clear user data: upgrade the firmware and keep the configuration.
clear user data: upgrade the firmware and reset the configuration to default value, but **GTBSI, GTSRI**, and "password" in **GTCFG** will keep unchanged.

Click **Load FW Files**, then select "qld.urt" file in the **Firmware UPD Package** folder.



Load FW File

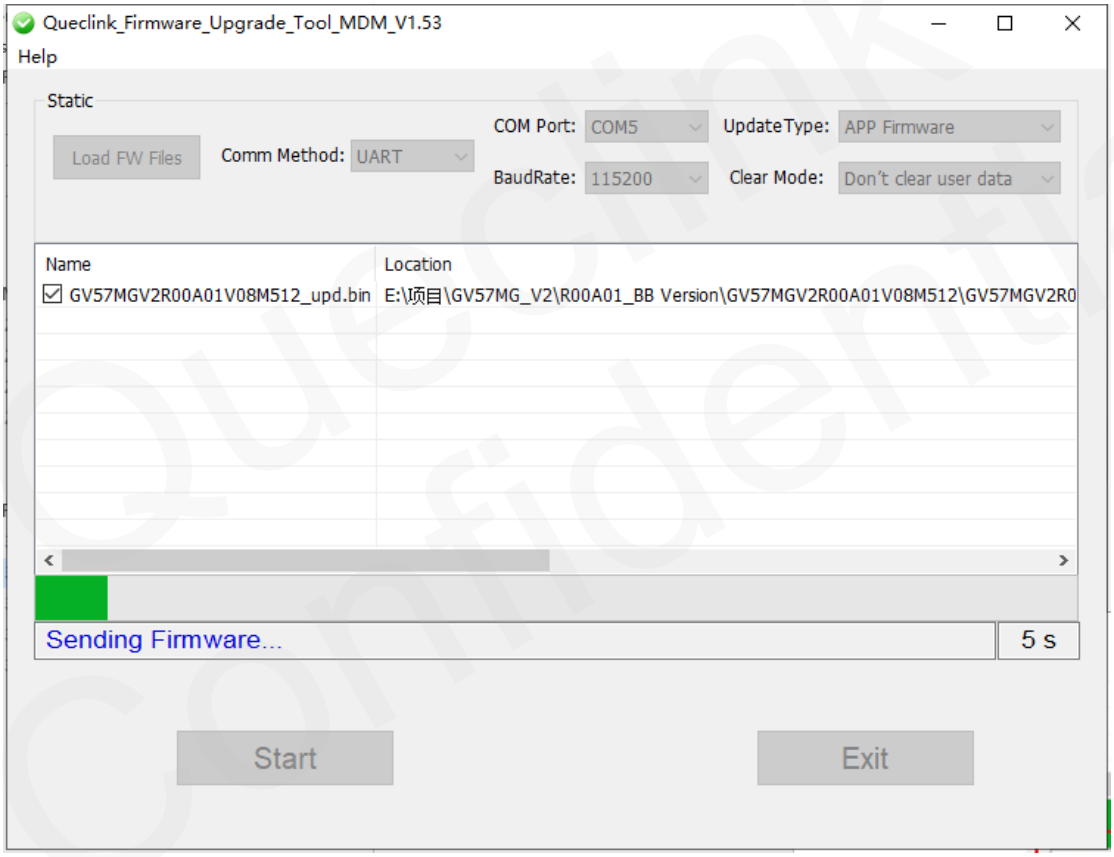
Note: Check your device type before upgrading. If the firmware files don't match the device,

an error message will appear as shown.

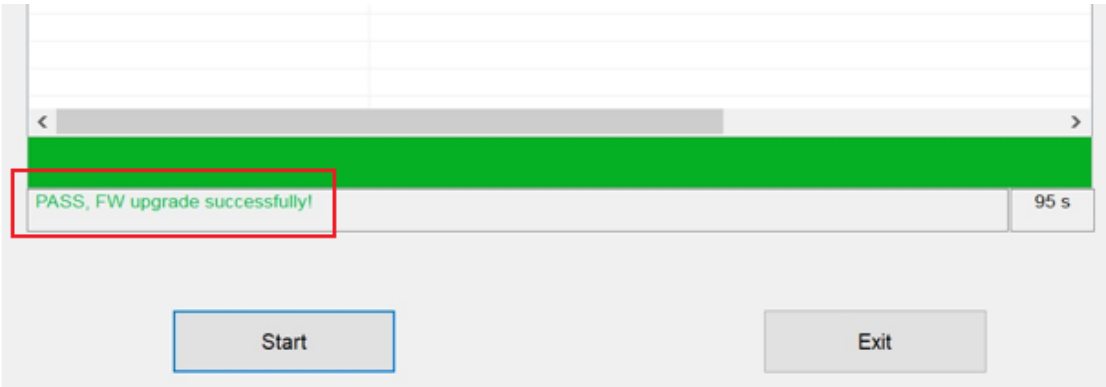


Fail to Import Files

Click **start** to upgrade the firmware.



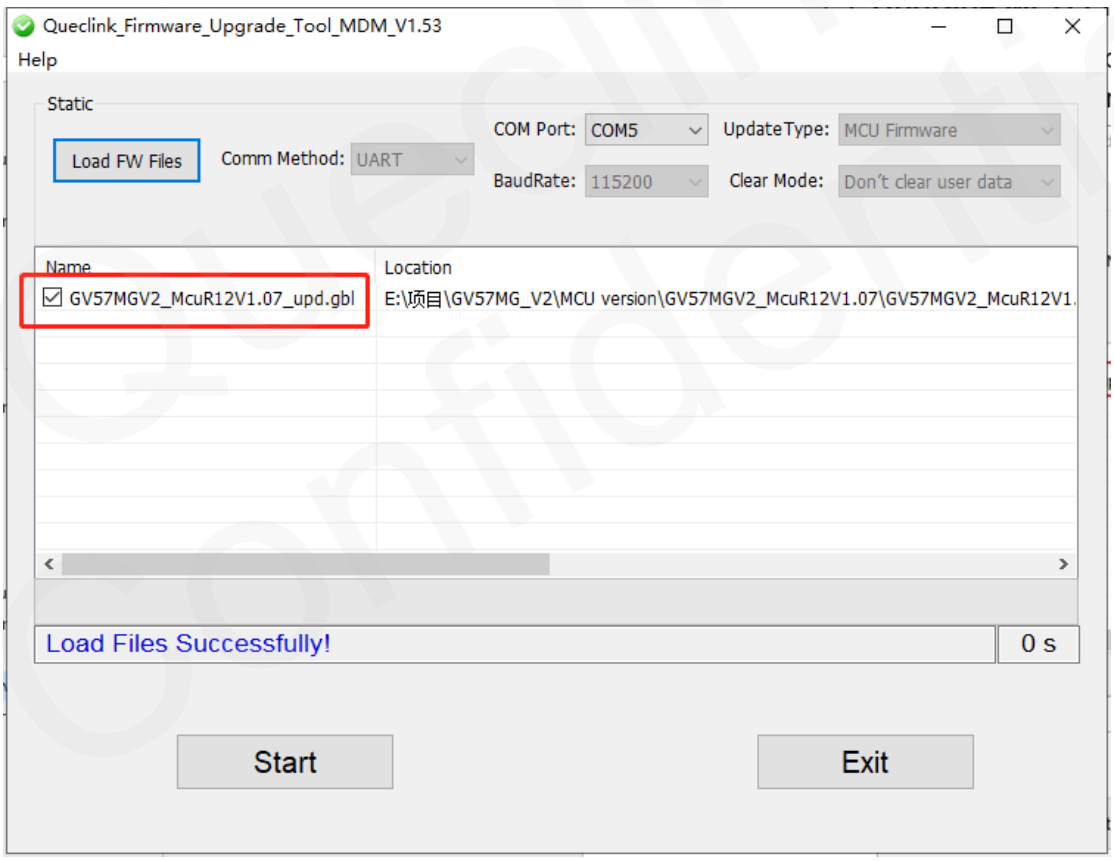
Sending Firmware



Upgrade is completed

3.3. **Upgrade MCU Firmware**

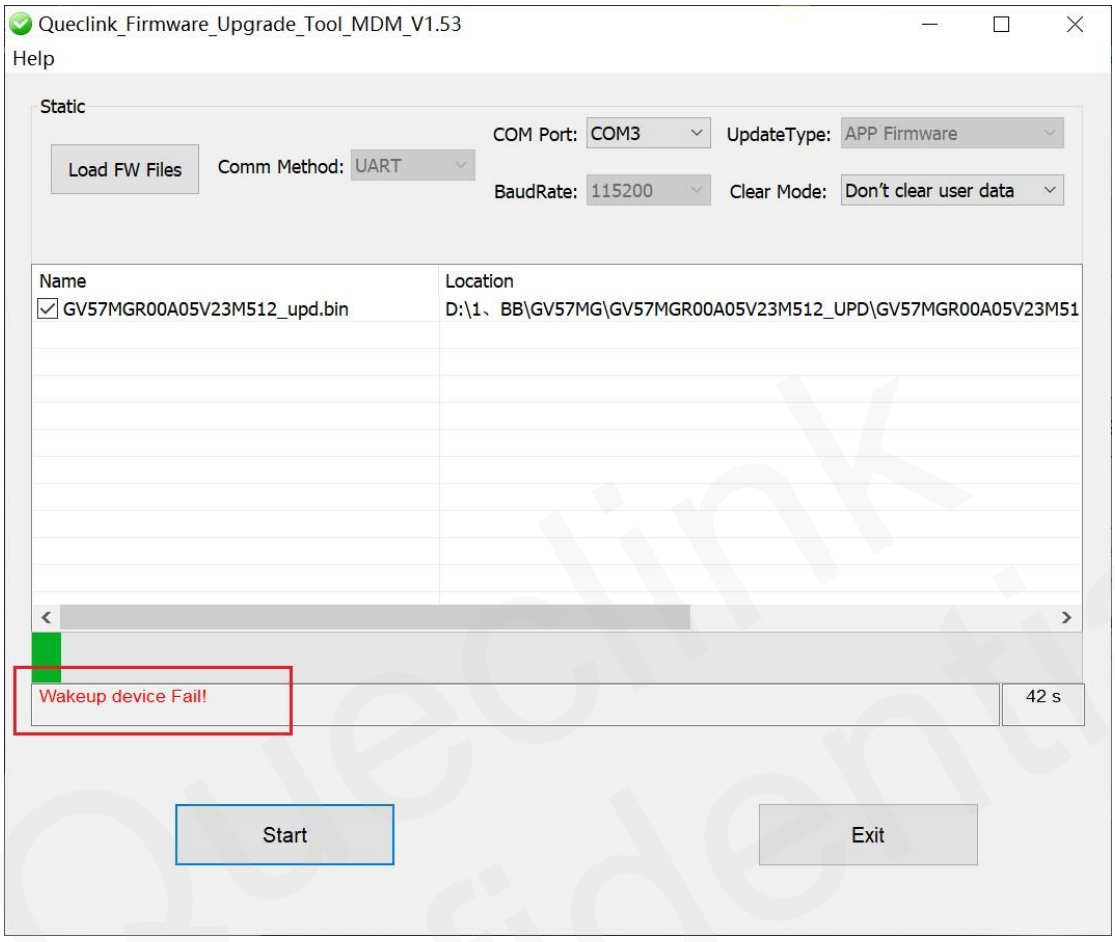
Click **Load FW Files**, and select **qld.urt** file in the **MCU Firmware Image** folder, Click **Start**, wait for the firmware upgrade process to finish.



Load FW File

3.4. Troubleshooting

3.4.1. Port Error



Port Error

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3.4.2. Caution

a) If the COM Port keeps disconnecting while downloading the firmware, the upgrade tool will stop downloading and prompt Download Fail in seconds. In this case, please disconnect the external power supply, reconnect, and try again.
b) If the upgrade tool is closed while downloading the firmware, open the upgrade tool but the error message will appear. In this case, please disconnect the external power supply, reconnect, and try again.
c) If other unexpected errors occur, please disconnect the external power supply, reconnect, and try again.

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