

# GL53MG(Plus) Firmware Upgrade User Guide

GL53MGFTUGUM001

V1.01



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## History

Revision	Date	Author	Description of Change
1.00	March 22, 2022	Mihoo Zhu	Initial
1.01	Nov 13,2024	Shirley zhou	optimization

## 1. Tool Introduction

Queclink\_Firmware\_Upgrade\_Tool\_MDM is a PC tool which can be used to upgrade firmware provided by Queclink.

### 1.1. System Requirements

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 by Queclink.

## 2. Upgrade Preparation

Get the following list of items ready:

Table 1: Device List

Name	Picture	Use
GL53MG(Plus) Locator		
USB Cable 0.5M		1. Upgrade firmware Driver: Driver_qud.win.1.1_instal ler_x.x
UART Cable 0.5M		1. Configure the device with Manage Tool  Driver: PL2303_Prolific_DriverIn staller_Vxx

## 3. Firmware Upgrade

### 3.1. Upgrade Baseband and Modem Firmware

#### 3.1.1. Prepare

	Name
Cable	GL53MG USB Data Cable
File	FULL package
Tools	Queclink_Firmware_Upgrade_Tool_MDM_Vx.xx

#### 3.1.2. Step

Install **Driver\_qud.win.1.1\_installer\_x.x** for the USB cable before upgrading the firmware with the tool.



Figure 1: USB cable connect with device

**Note:** Make sure the USB cable is connected to the PC before the upgrade.

#### Step 1

Open **Queclink\_Firmware\_Upgrade\_Tool\_MDM\_Vx.xx.exe**. Click **Load FW Files** and select **qld.cfg** file in **GL53MGR00AxxVxxM512\_FULL** folder.

#### Step 2

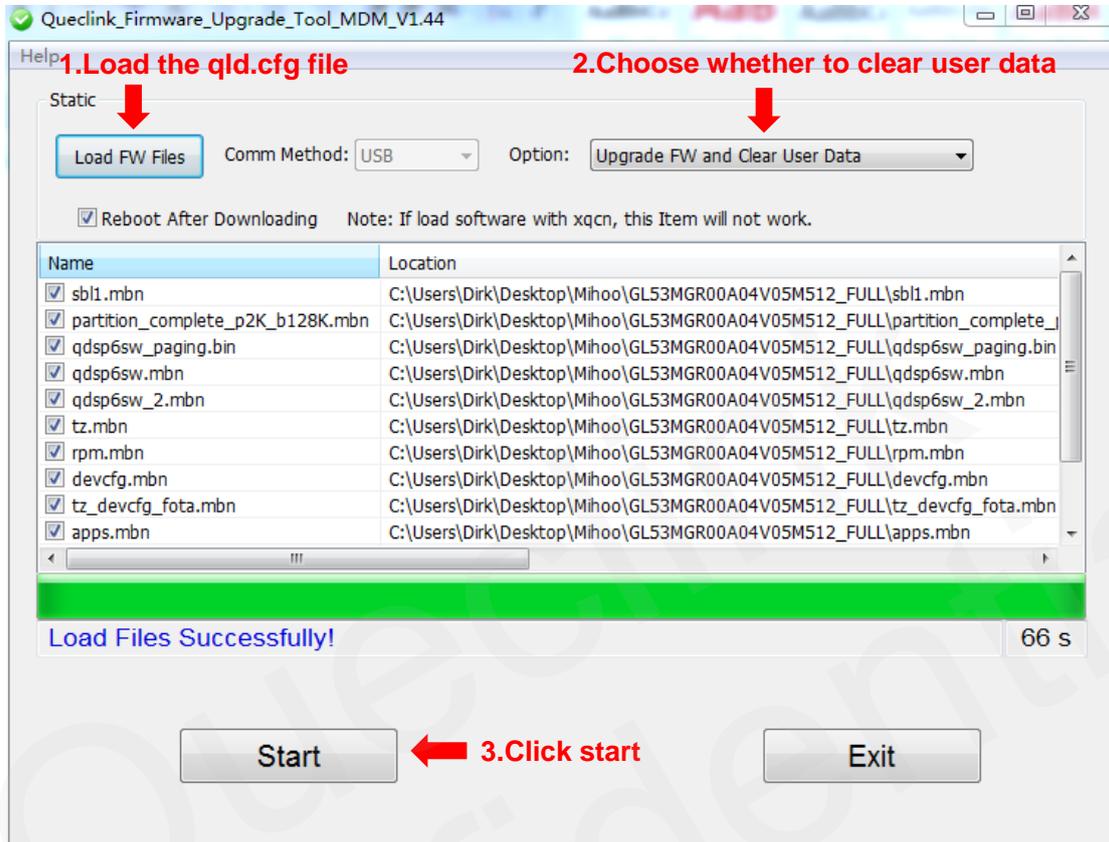
For **Option**, you can choose whether to clear user data.

**Step 3**

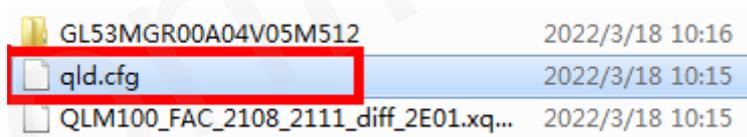
Select **Start**.

**Step 4**

Wait for the firmware upgrade to succeed.



**Figure 2: Basic setting**



**Figure 3: Load Firmware File**

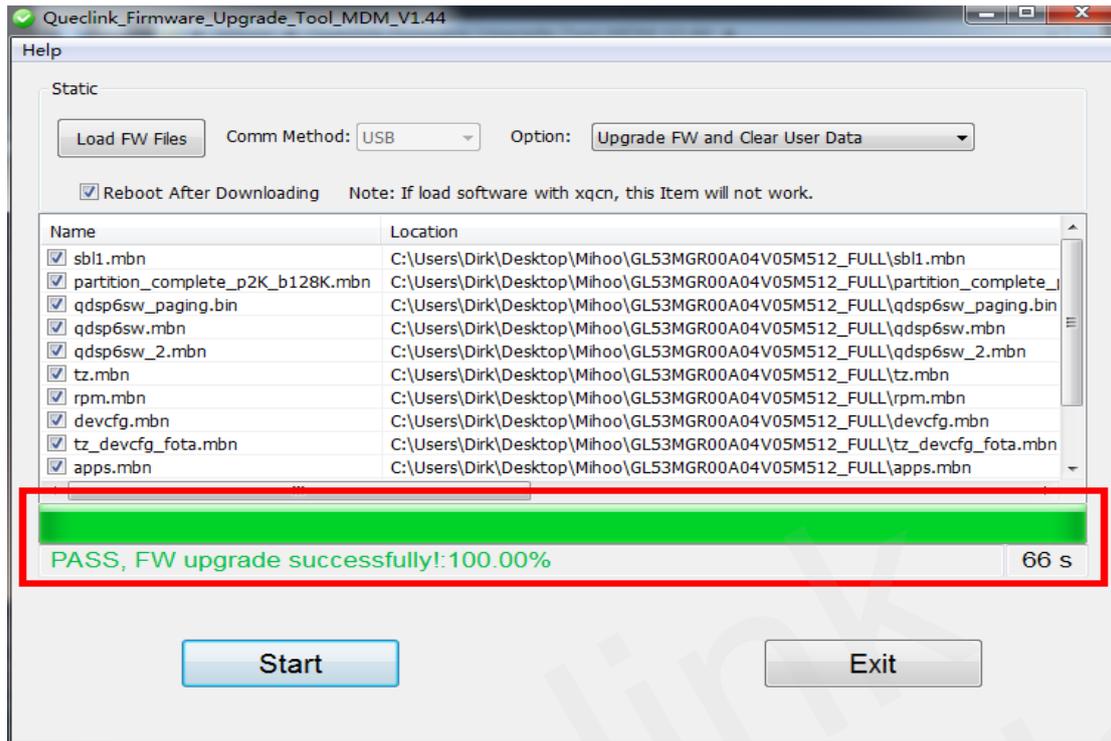


Figure 4: Upgrade success

## 3.2. Upgrade Baseband Firmware Only

### 3.2.1. Prepare

	Name
Cable	GL53MG USB Data Cable
File	UPD package
Tools	Queclink_Firmware_Upgrade_Tool_MDM_Vx.xx

### 3.2.2. Step

Install **Driver\_qud.win.1.1\_installer\_x.x** for the USB cable before upgrading the firmware with the tool.



Figure 5: USB cable connect with device

**Note:** Make sure the USB cable is connected to the PC before the upgrade.

#### Step 1

Open **Queclink\_Firmware\_Upgrade\_Tool\_MDM\_Vx.xx.exe**. Click **Load FW Files** and select **qld.cfg** file in **GL53MGR00AxxVxxM512** folder.

#### Step 2

For **Option**, you can choose whether to clear user data.

#### Step 3

Select **Start**.

#### Step 4

Wait for the firmware upgrade to succeed.

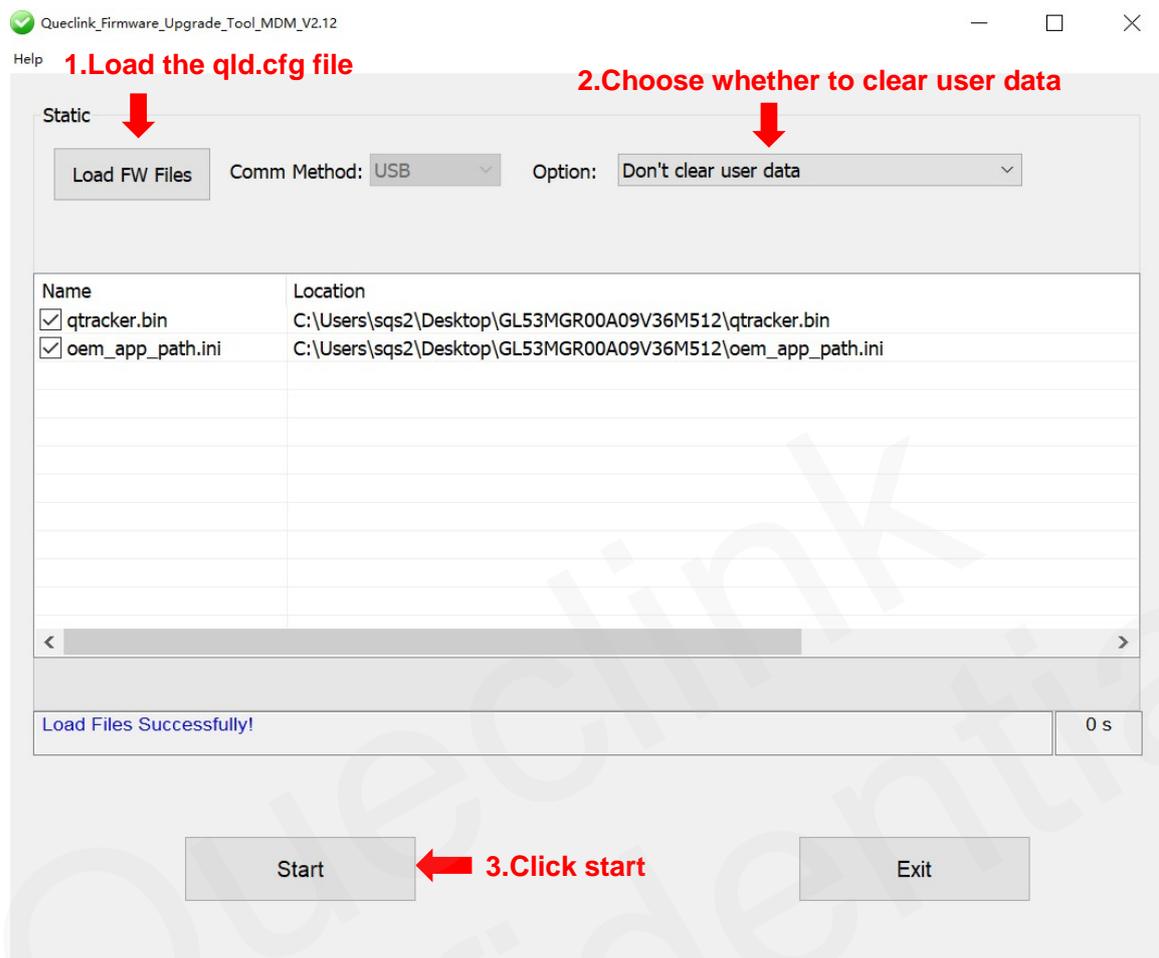


Figure 6: Basic setting



Figure 7: Load Firmware File

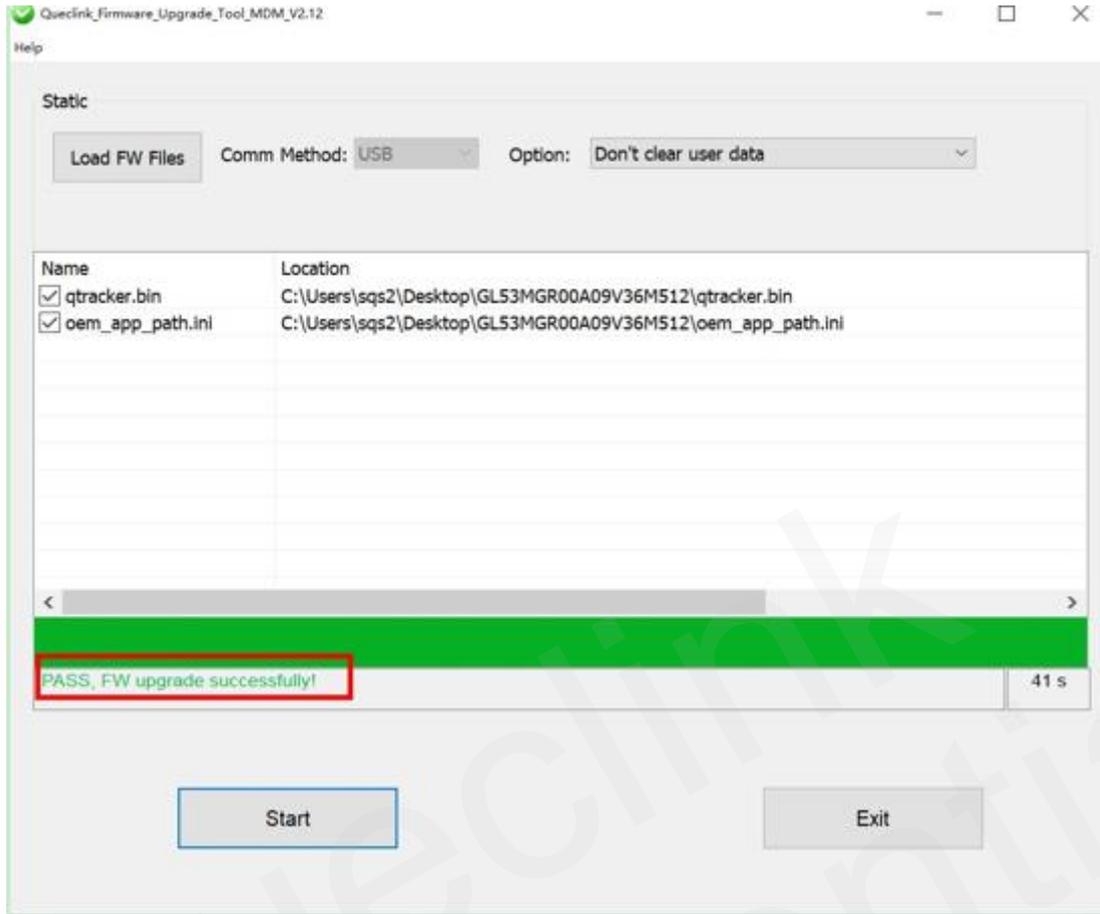


Figure 8: Upgrade success

### 3.3. Upgrade MCU Firmware

#### 3.3.1. Prepare

	Name
Cable	GL53MG USB Data Cable
File	UPD package
Tools	Queclink_MCU_Firmware_Upgrade_Tool_GBL_Vx.xx

#### 3.3.2. Step

Install **Driver\_qud.win.1.1\_installer\_x.x** for the USB cable before upgrading the firmware with the tool.



Figure 9: USB cable connect with device

**Note:** Make sure the USB cable is connected to the PC before the upgrade.

##### Step 1

Open **Queclink\_MCU\_Firmware\_Upgrade\_Tool\_GBL\_Vx.xx.exe**. Select **Load FW Files**, then choose the **upd.gbl** file in **Firmware Image** folder.

##### Step 2

Select **Start**.

##### Step 4

Wait for the firmware upgrade to succeed.

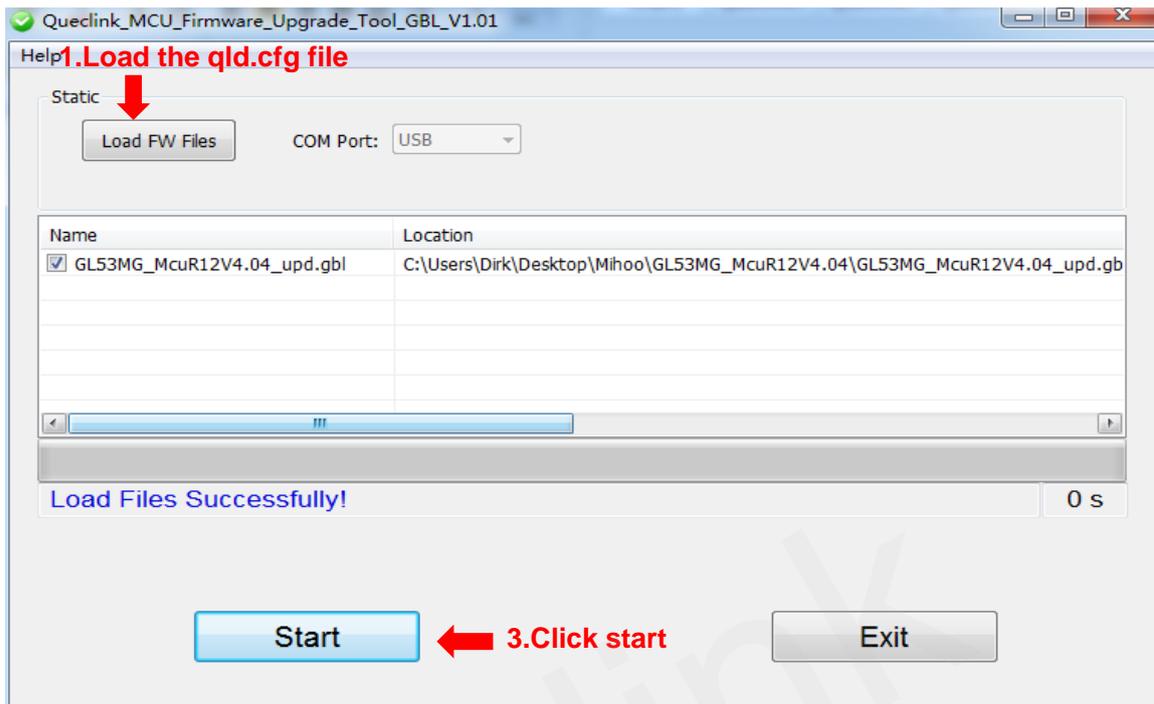


Figure 10: Basic setting

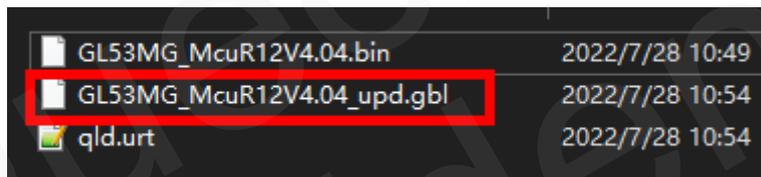


Figure 11: Load Firmware File

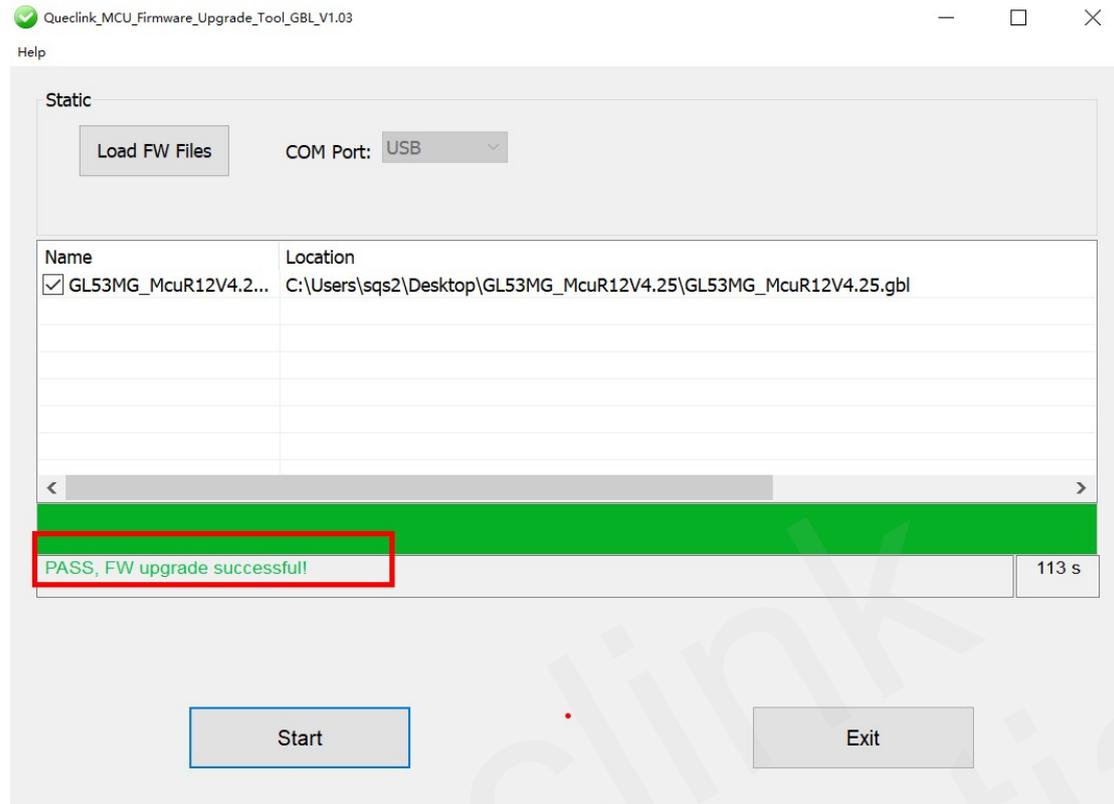


Figure 12: Upgrade success

## 4. Troubleshooting

### 4.1. Port Error



- ✓  Ports (COM & LPT)
-  Qualcomm HS-USB Diagnostics 90B2 (COM4)

**Figure 13: The USB port is not available**

**Note:** We suggest to operate only one device for upgrade; when multiple devices are together, the serial port may not work.

### 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 an 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.
- d) Because the upgrade cable is charged, we recommend to turn off the internal battery switch during the upgrading.