Queclink_MCU_Firmware_Upgrade_Tool User Guide

TRMCUKL001

Version: 2.00

Driving Smarter IoT

www.queclink.com

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0. Revision History

Revision	Date	Author	Description of Change
1.00	2016-11-10	Jessi Cao	Initial
2.00	2022-06-24	Tammy Tian	Modified Chapter 1.1 system requirements

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1. Tool Introduction

Queclink_MCU_Firmware_Upgrade_Tool is PC tool which can be used to upgrade MCU which provided by Queclink.

1.1. System Requirements

The tool can run in PC without being installed, and the operation system can be all WIN OS.

You will be informed in advance about any upgraded version of this tool which will be provided by Queclink.

1.2. Tool Interface

Introduction of the UI:

The Figure 1 shows the main interface of the tool.

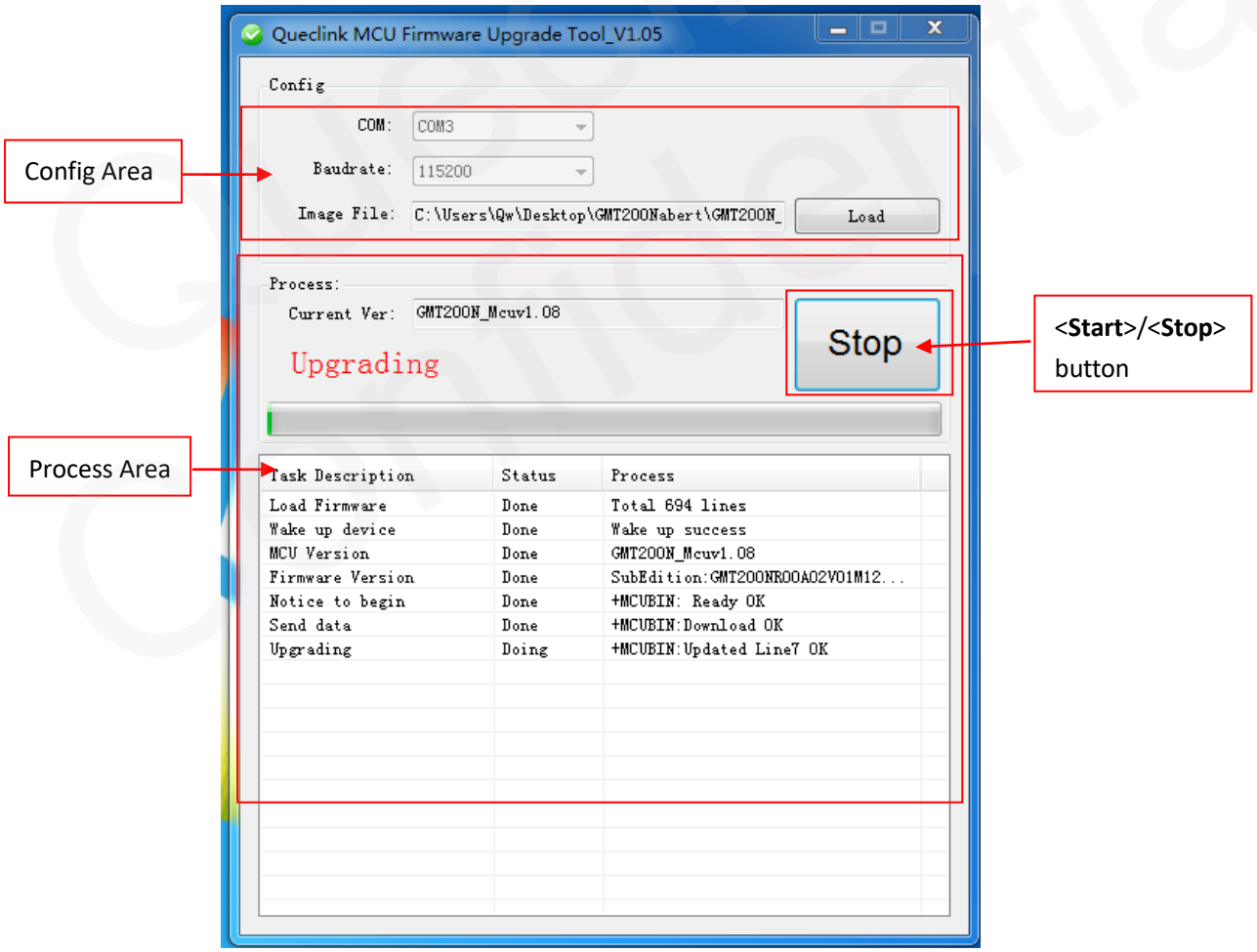


Figure 1: UI of the Main Interface

Config Area

<**COM**>**:** This Combo Box used to select a serial port.

<**Baudrate**>: This Combo Box used to set the rate of computer in serial communication.

Note: Please make sure the baudrate match with device type. GL300VC and GL300W use 9600, others use 115200.

<**Image File**>: This button used to select image files to upgrade.

Process Area

<**Current Ver**>: Show current MCU version in device.

<**Start**>/<**Stop**> button: Start and stop upgrade process.

<**Task Description**>: It is used to display the steps in progressing.

<**Status**>: It is used to display the status of the task.

<**Progress**>: It is used to display the progress bar.

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2. Upgrade Operation Instruction

2.1. Step1_Upgrade Prepare

Prepare list is as below:

NO	Contact	Description	Remark
1	Device	Queclink production	Make sure the production type of device, like GV55VC,GL300W etc.
2	Upgrade Cable	Upgrade Cable for device	Each device type has its own upgrade cable. Note: Please make sure upgrade cable always connect to PC.
3	Driver of Cable	Driver of Cable	Make sure cable can be identified by PC.
3	Firmware File	Firmware for MCU upgrade	Getting from Queclink. Note: Normally we will compress the firmware file to you. But please make sure decompress this file.
4	Computer	PC for short	Refer to charpter 1.1.
5	Queclink_MCU_Firmware_Upgrade_Tool	Upgrade tool	Getting from Queclink.

2.2. Step2_Power on Device

Power on device, and connect device to PC.

2.3. Step3_Upgrade Tool Basic Setting

In this step, please make sure the upgrade cable connect to the PC first. And now, open Queclink_MCU_Firmware_Upgrade_Tool and configure basic information in tool, including <**COM**> and <**Baudrate**>, then load < **Image File**>.

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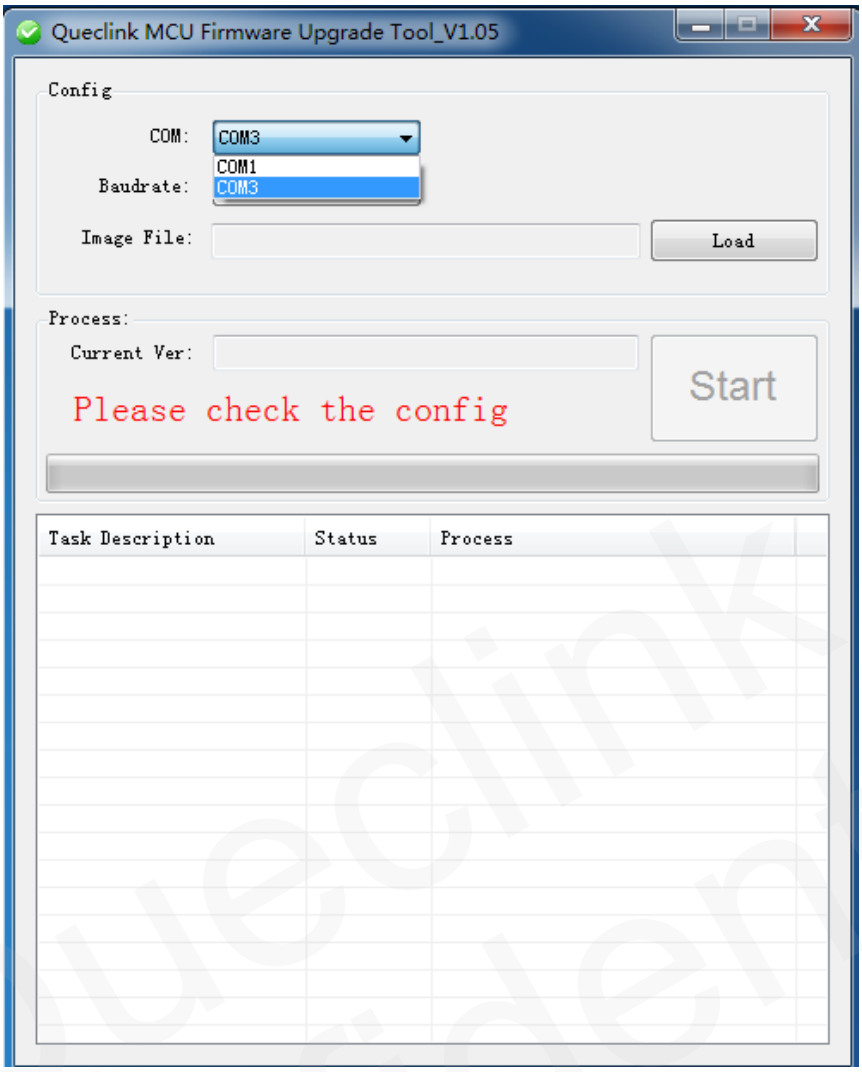


Figure 2: UI of Select COM

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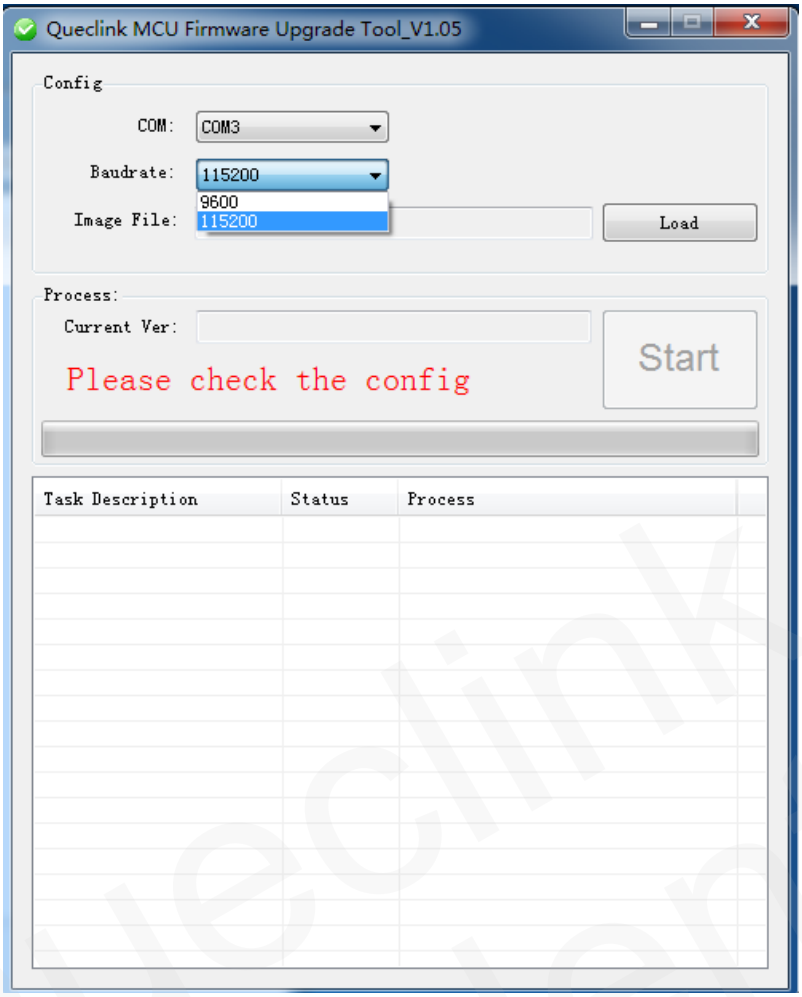


Figure 3: UI of Select Baudrate

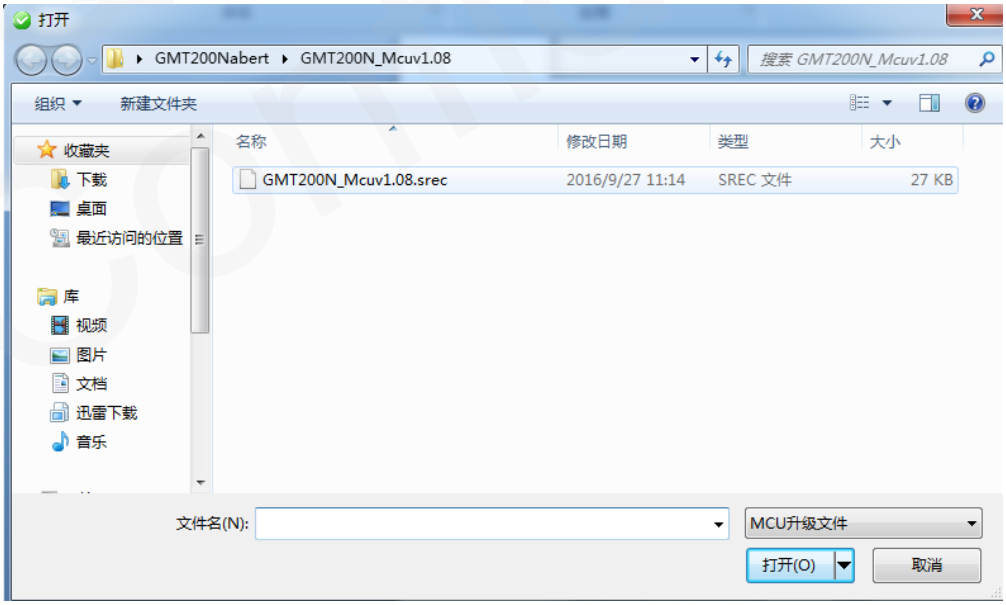


Figure 4: UI of Select Image File

2.4. Step4_Click Start Button

Click “Start”button in Queclink_MCU_Firmware_Upgrade_Tool.

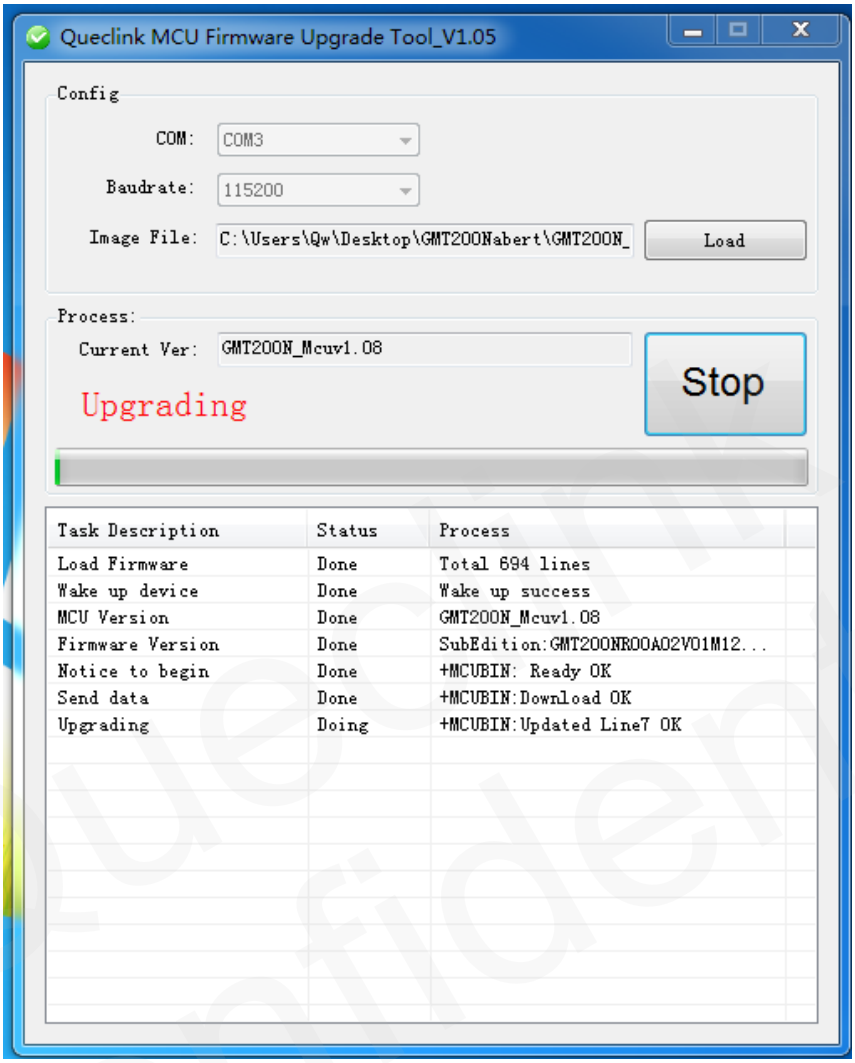


Figure 5: UI of Starting Upgrade

2.5. Step5_Upgrade Process

Upgrading process is shown in Figure 6.

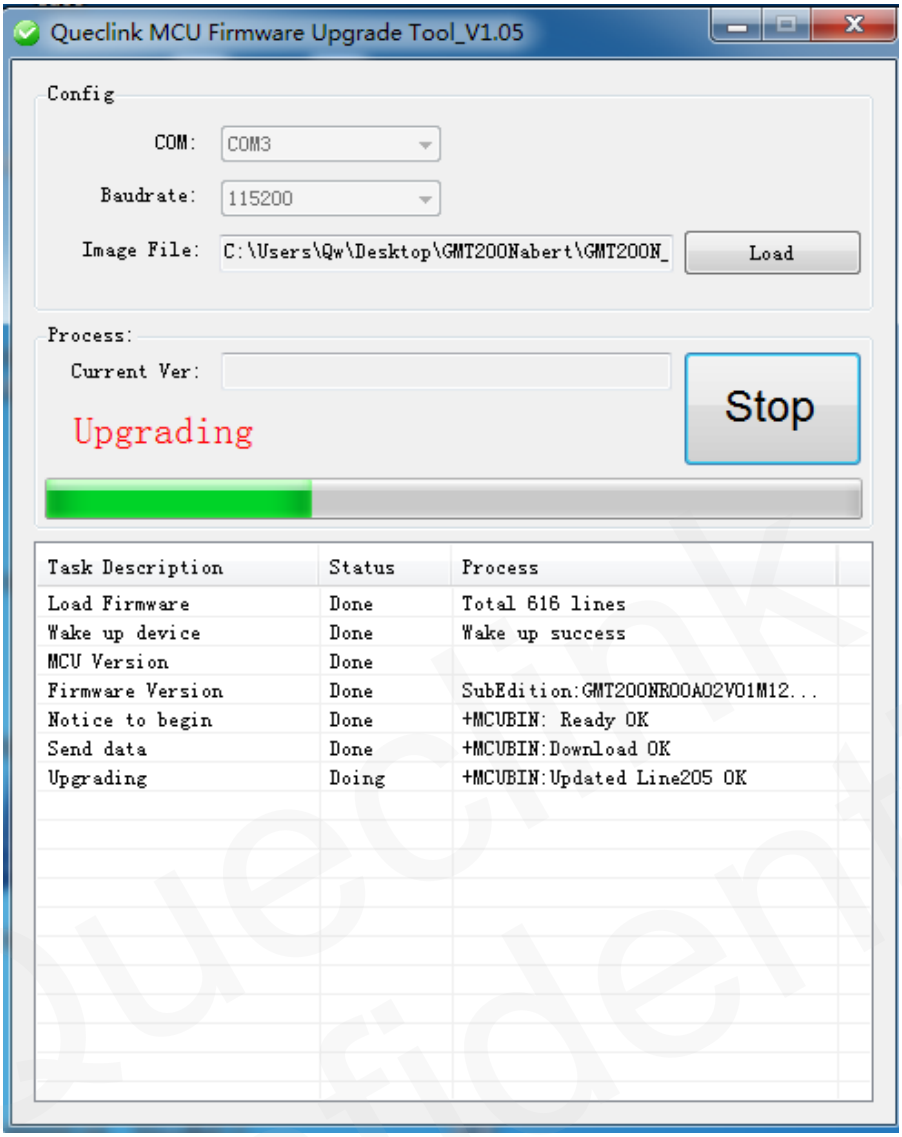


Figure 6: UI of Download image

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2.6. Step6_Upgrade Accomplishment

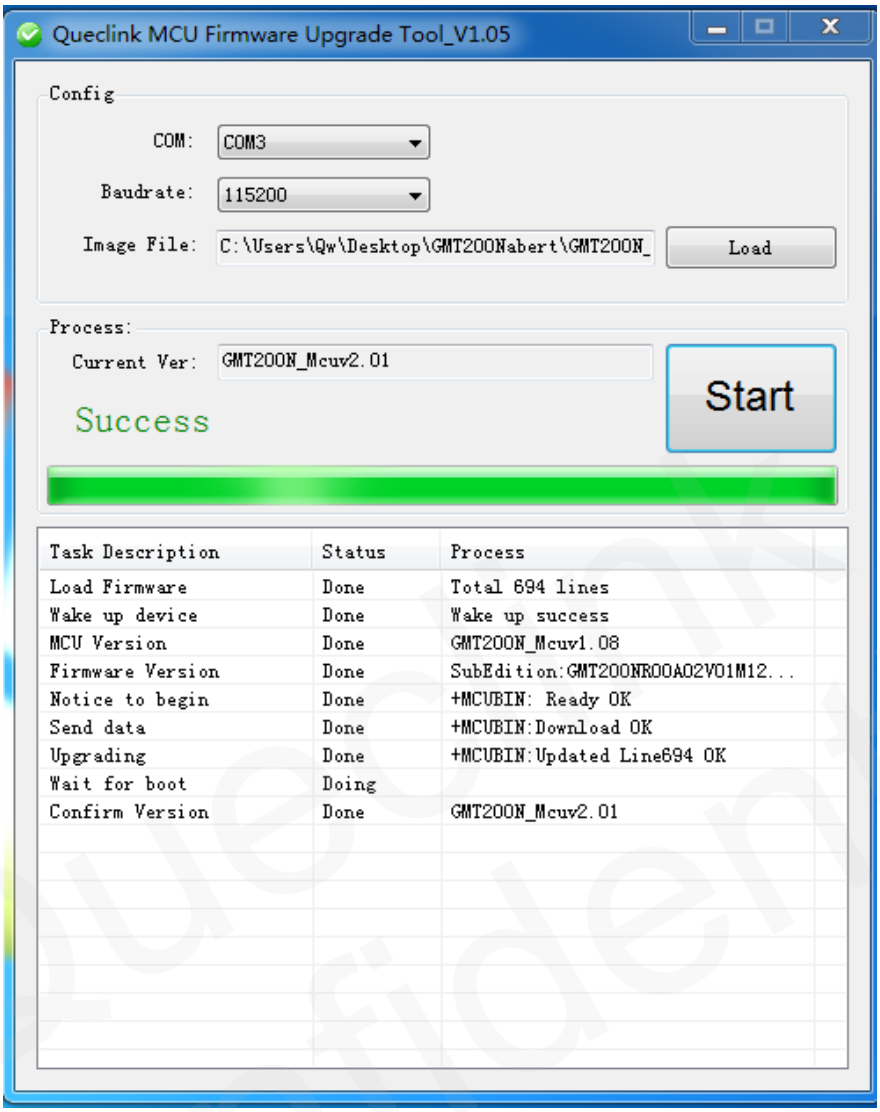


Figure 7: UI of Upgrade OK

Note: If “Success” appears, it means upgrade successful.

3. FQA

3.1. Open UART Failed

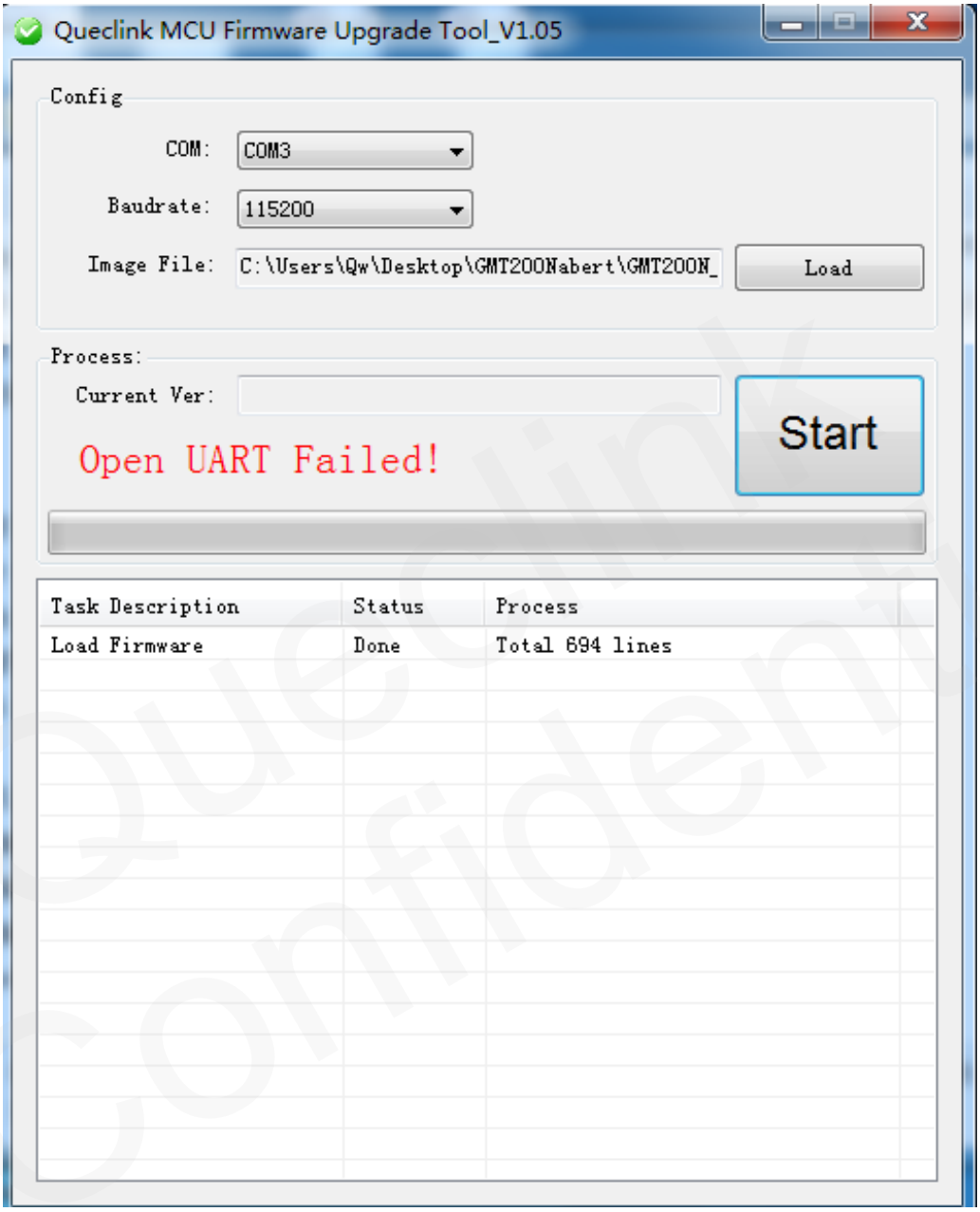


Figure 8: UI of Open UART Failed

Possible Reason	Solution
COM is occupied	Make sure the COM is not occupied by other tools.

3.2. Wakeup Fail

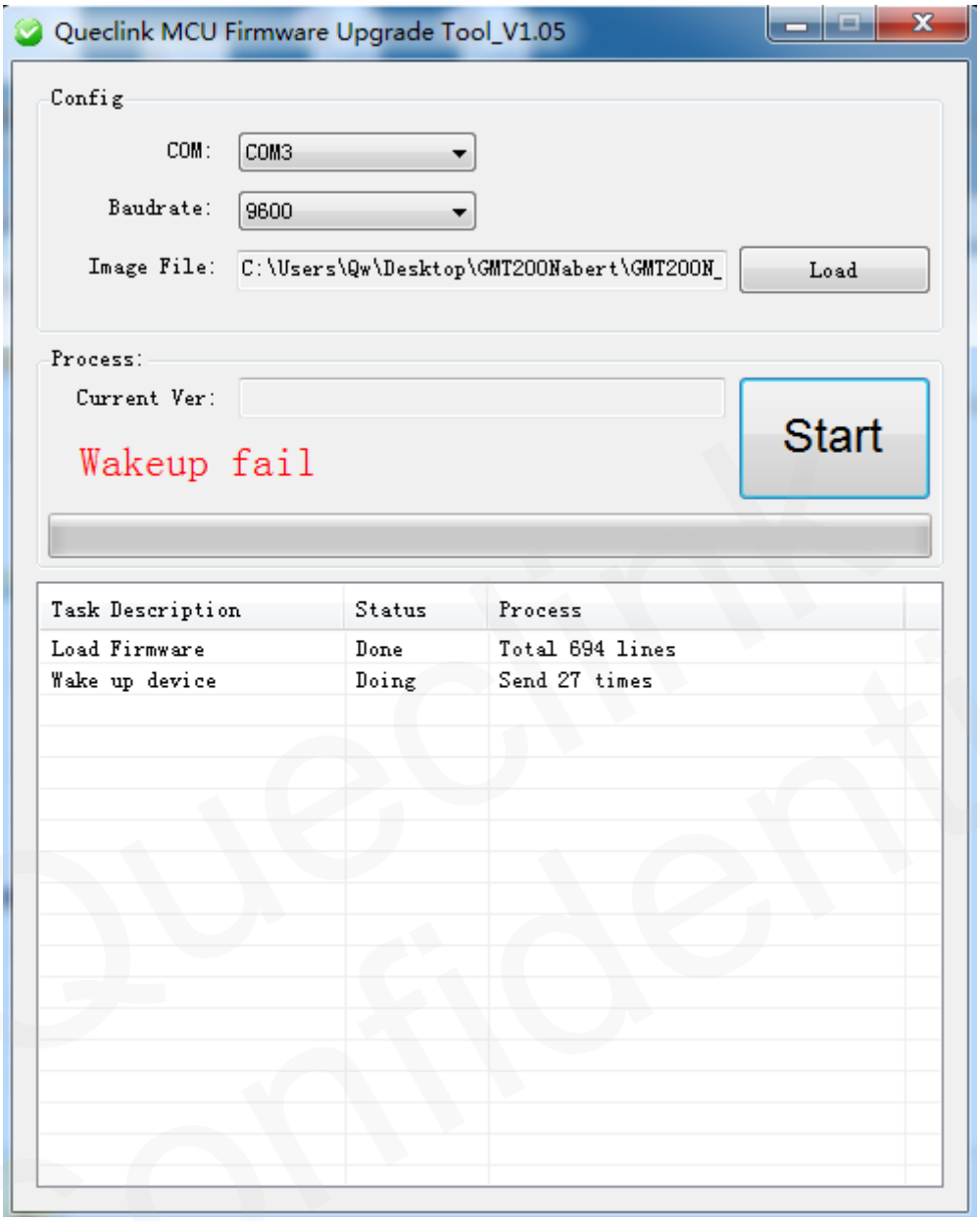


Figure 9: UI of Wakeup fail

Possible Reason	Solution
Baudrate is wrong.	Select correct baudrate.

3.3. Device Unplug



Figure 10: UI of Device Unplug

Possible Reason	Solution
Interface is loose when upgrading.	Check connect status of PC/Cable/device, and restart to upgrade.

3.4. Upgrade File Not Support

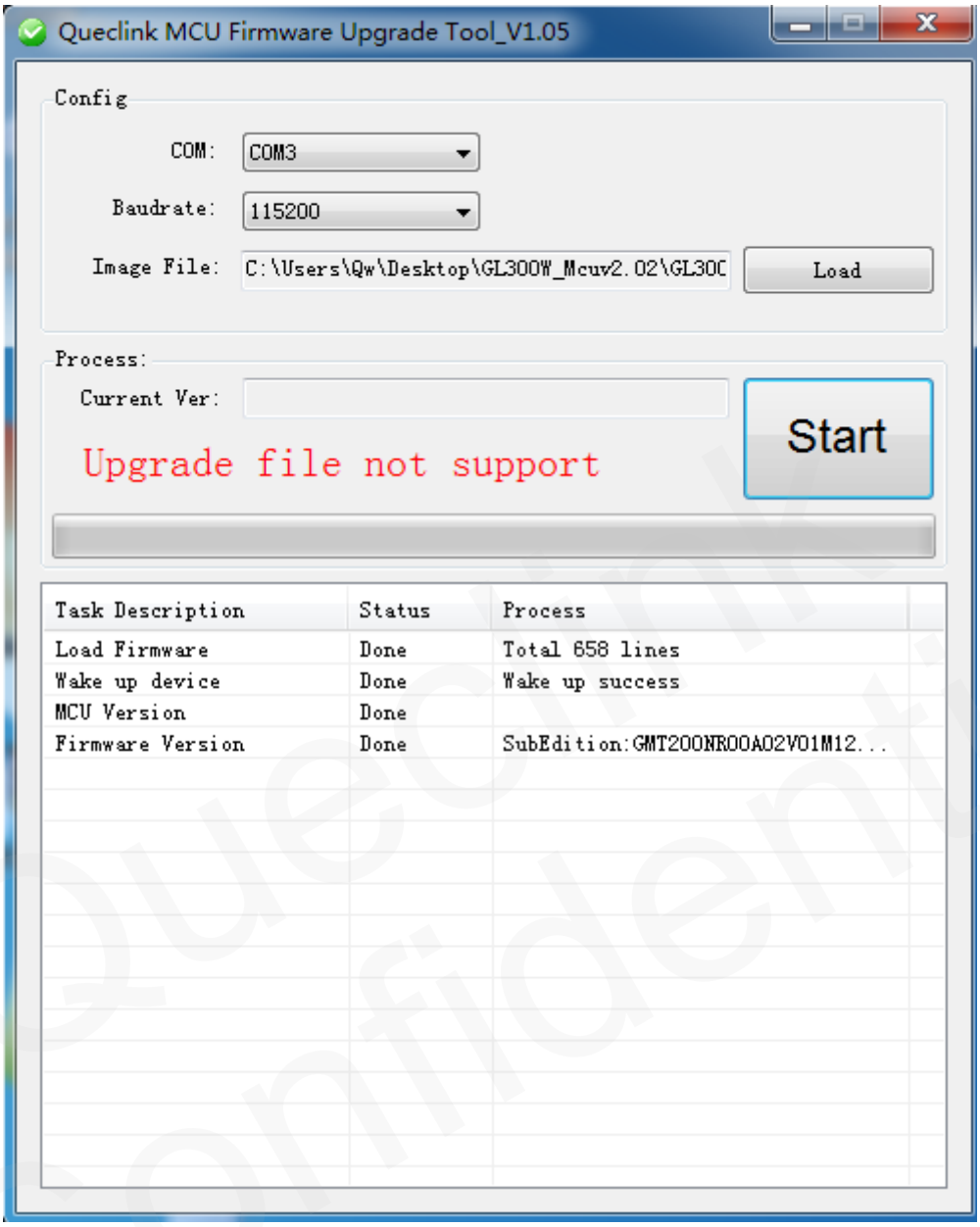


Figure 11: UI of Upgrade file not support

Possible Reason	Solution
Load wrong image file.	Load the correct image file.