Queclink Multi Upgrade Tool User Guide

Version: 1.01



Driving Smarter IoT

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0. Revision History

Version	Date	Author	Description of Change
1.00	2022-05-06	Evan Tu	Initial.
1.01	2022-06-21	Evan Tu	1. Added support for CAN firmware upgrade. 2. Separated the BLE and MCU firmware upgrade interfaces. 3. Added the upgrade time display.

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1. Introduction

1.1. Firmware Upgrade Tool

Queclink_Multi_Firmware_Upgrade_Tool is a tool for upgrading firmware with the Tracker terminal. The types of firmware that can be upgraded are as follows:

1. BB Firmware (4G Platform)
2. MCU Firmware (KL03/LPC824)
3. BLE Firmware (BG21/BG22/BLUENRG345)
4. CAN Firmware (GV350CEU)
5. GPS Firmware

1.2. System Requirements

1.2.1. Hardware Requirements

Processor: Pentium IV 2.0Hz (or higher)

Memory: 1024MB RAM or higher

Hard Disk Space: 10GB free space on the hard disk

Port: Two available serial communication ports (minimum). USB 2.0 Port.

1.2.2. Software Requirements

Operating System: MS Windows7, WIN10 (or higher)

Application: MFC (Dynamic Link Library)

Driver: Queclink_Driver_AsrV2.0.1.0 USB driver, which is released with the upgrade tool**.**

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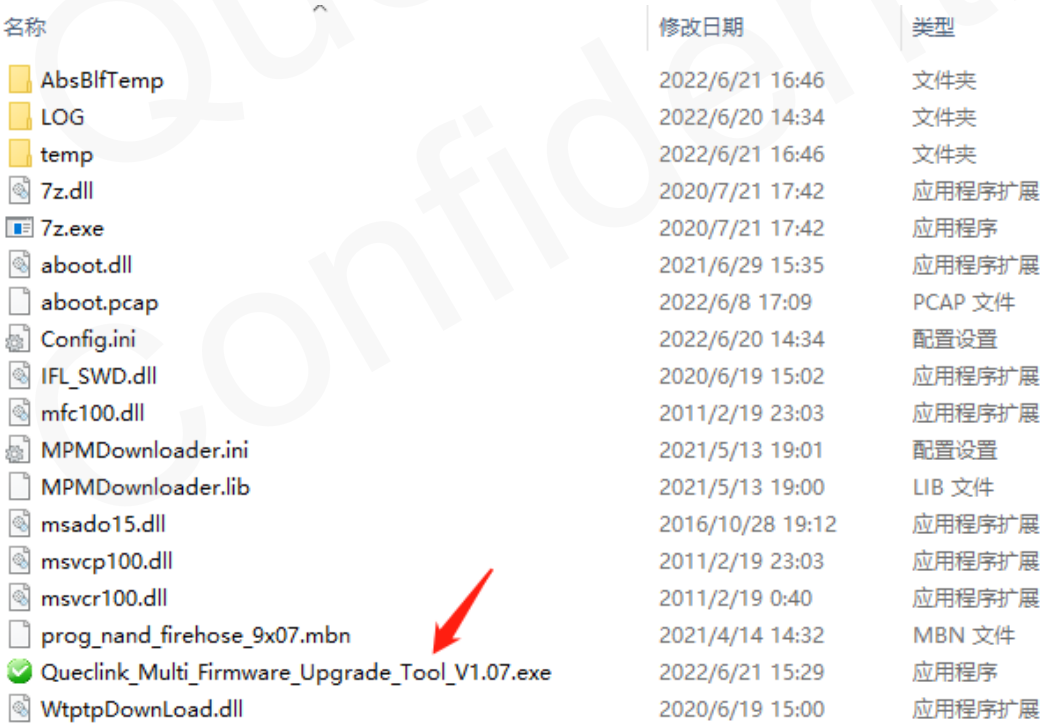
1.3. Software Package

The following directory is displayed for decompressing the software package.



1. **Document** is used to store released firmware versions and user manuals.
2. **Driver** is used to store USB and serial driver packages.
3. **Exec** is used to store executable programs, dynamic libraries and temporary information directories.

Exec file is displayed as shown in the following figure.



Queclink_Multi_Firmware_Upgrade_Tool_V1.07.exe is an executable program that can be run by double-clicking without installation. The running interface is shown in **Figure 1**.

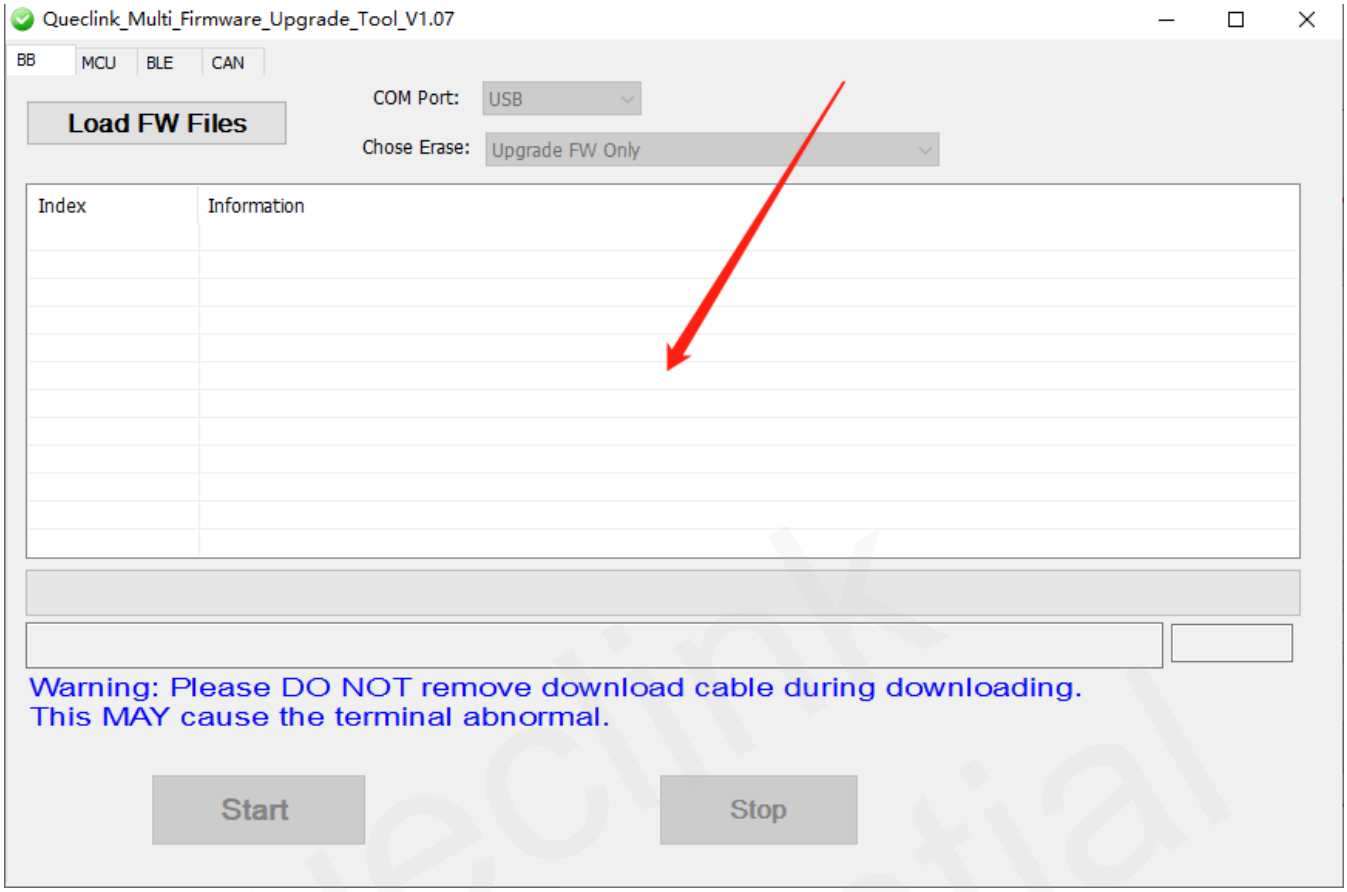


Figure 1

1.4. Firmware Function Modules

1.4.1. BB Firmware Upgrade

Note: The current version of **Queclink_Multi_Firmware_Upgrade_Tool** only supports BB firmware upgrade for 4G platform.

Step 1: Click "*BB*".

Step 2: Load FW Files.

Step 3: Select COM Port.

Step 4: Click "*Chose Erase*" to select upgrade type (Upgrade FW/ Upgrade FW and Clear Data).

Please see the **Figure 2**.

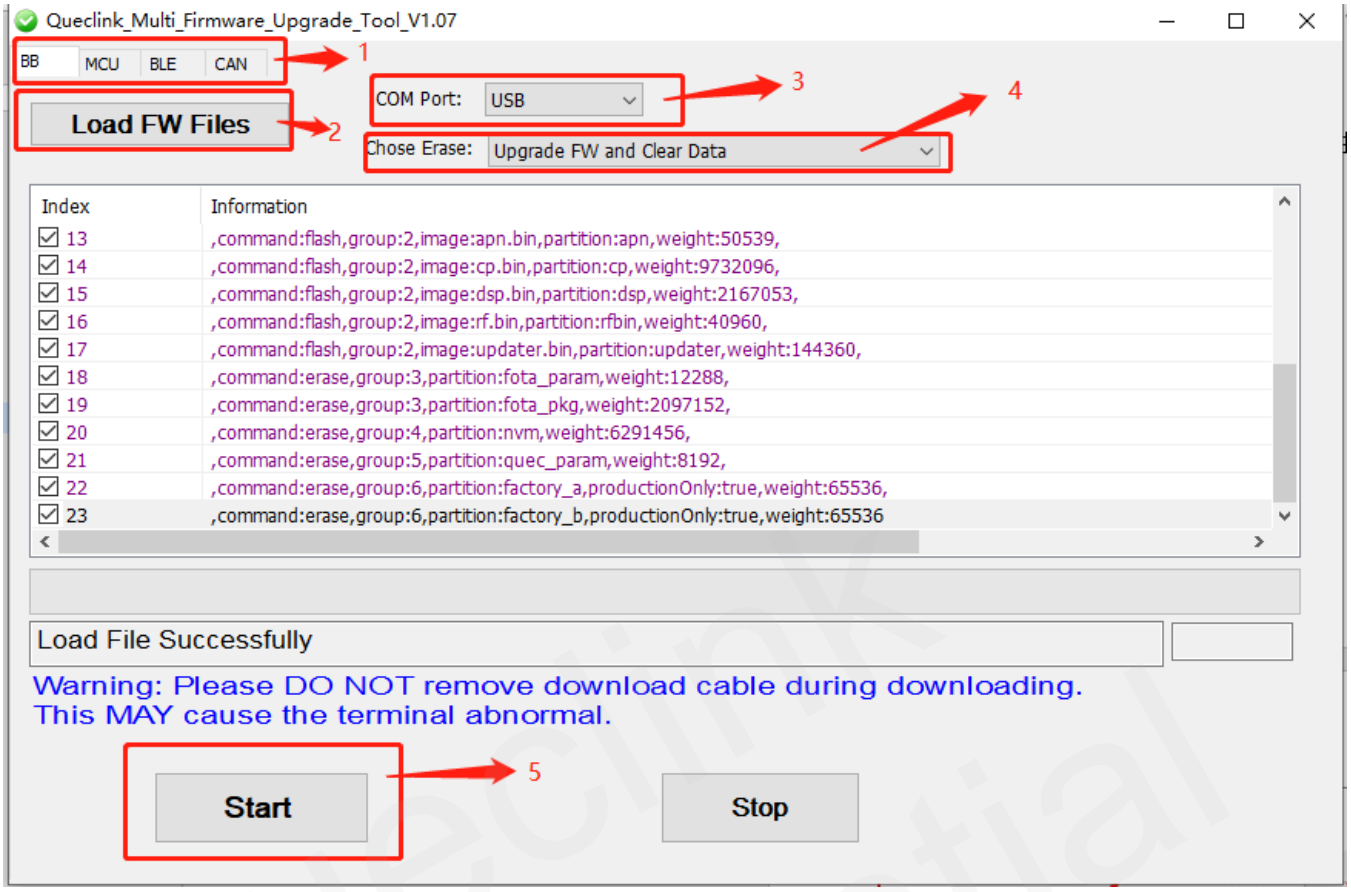


Figure 2

Step 5: If the device is connected and it is powered on, please click the "*Start*" button to start the upgrade process immediately. Or click the "*Start*" button to wait for the device to be powered on to upgrade, and there is a progress bar displayed during the upgrade.

Step 6: The upgrade is completed as shown in **Figure 3**.

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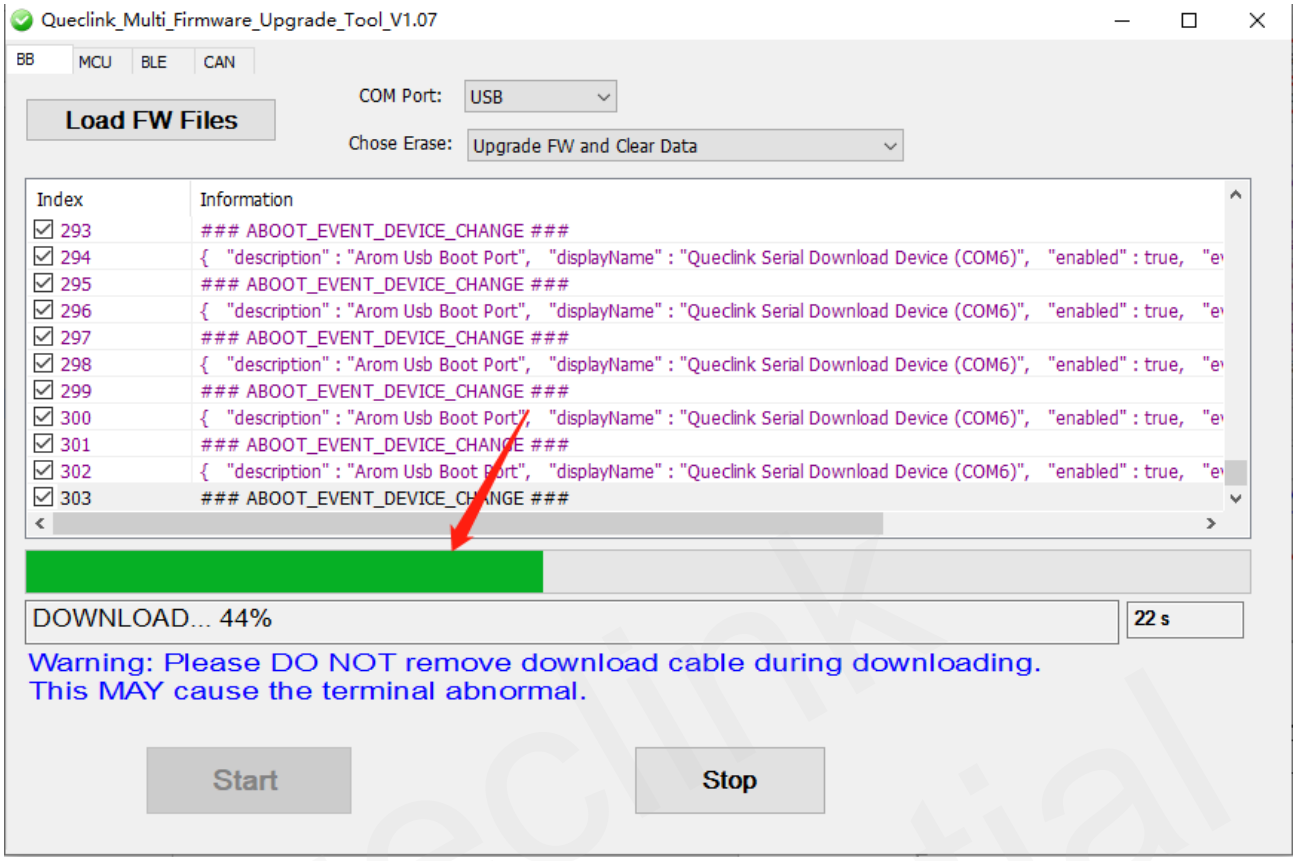


Figure 3

1.4.2. MCU Firmware Upgrade

Step 1: Connect and then power on the device (**Note**: Before upgrade, please make sure that BB is powered on normally).

Step 2: Click "*MCU*".

Step 3: Load MCU/BLE Files (.SREC)

Step 4: Select COM Port and Baudrate.

Please see the **Figure 4**.

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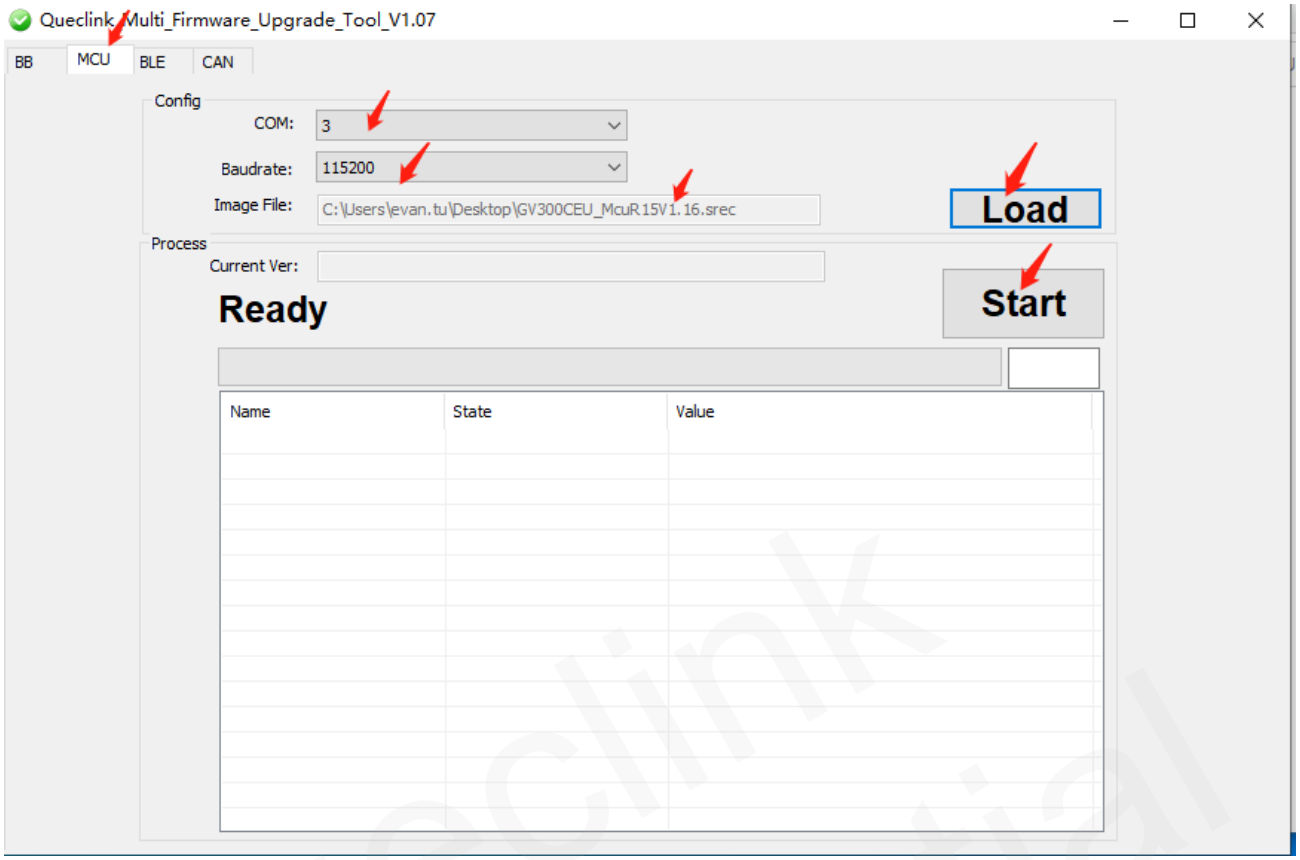


Figure 4

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Step 5: After completing the above configuration, click the "*Start*" button to upgrade, as shown in **Figure 5**.

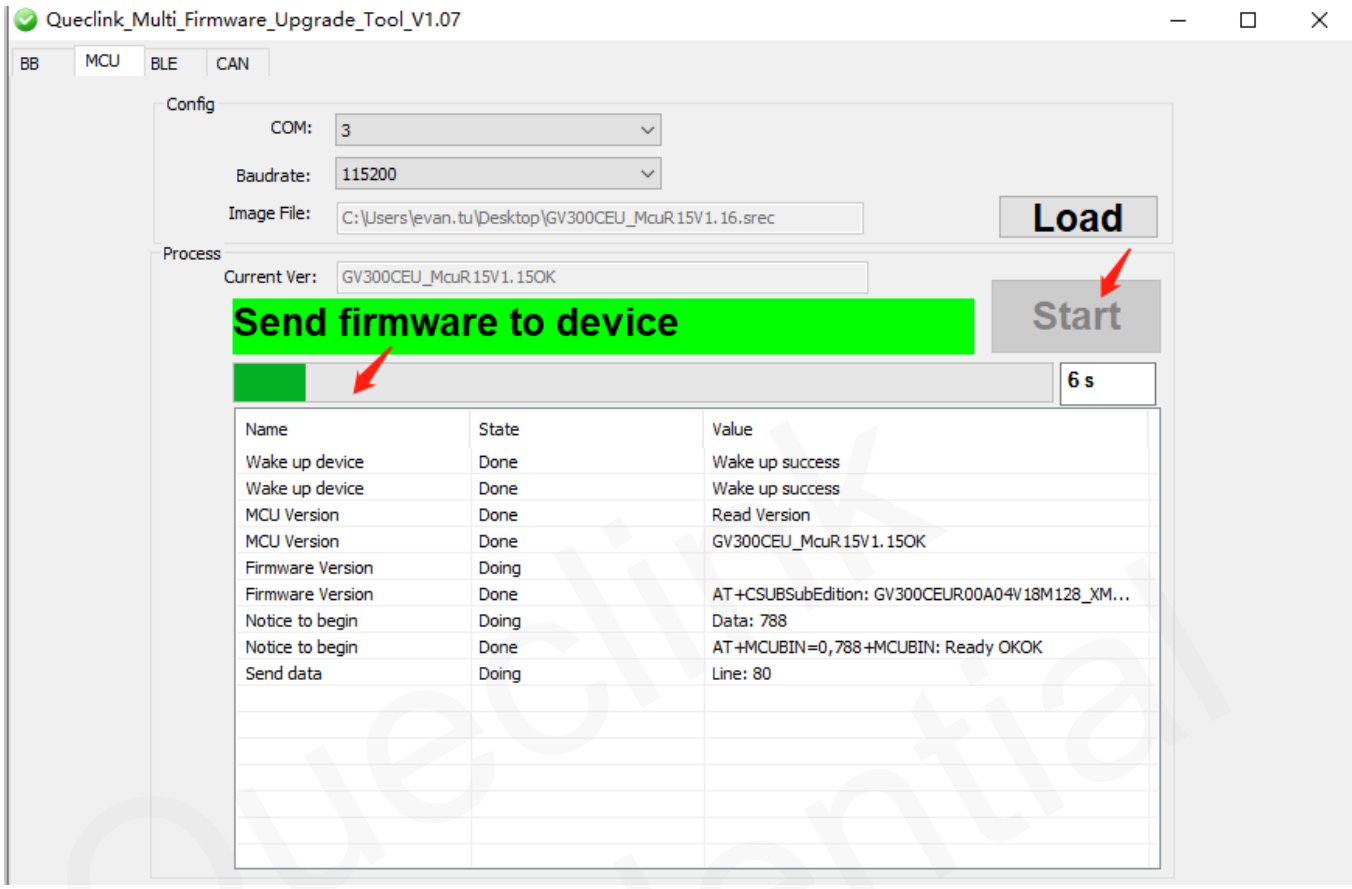


Figure 5

Step 6: The upgrade is completed as shown in **Figure 6**.

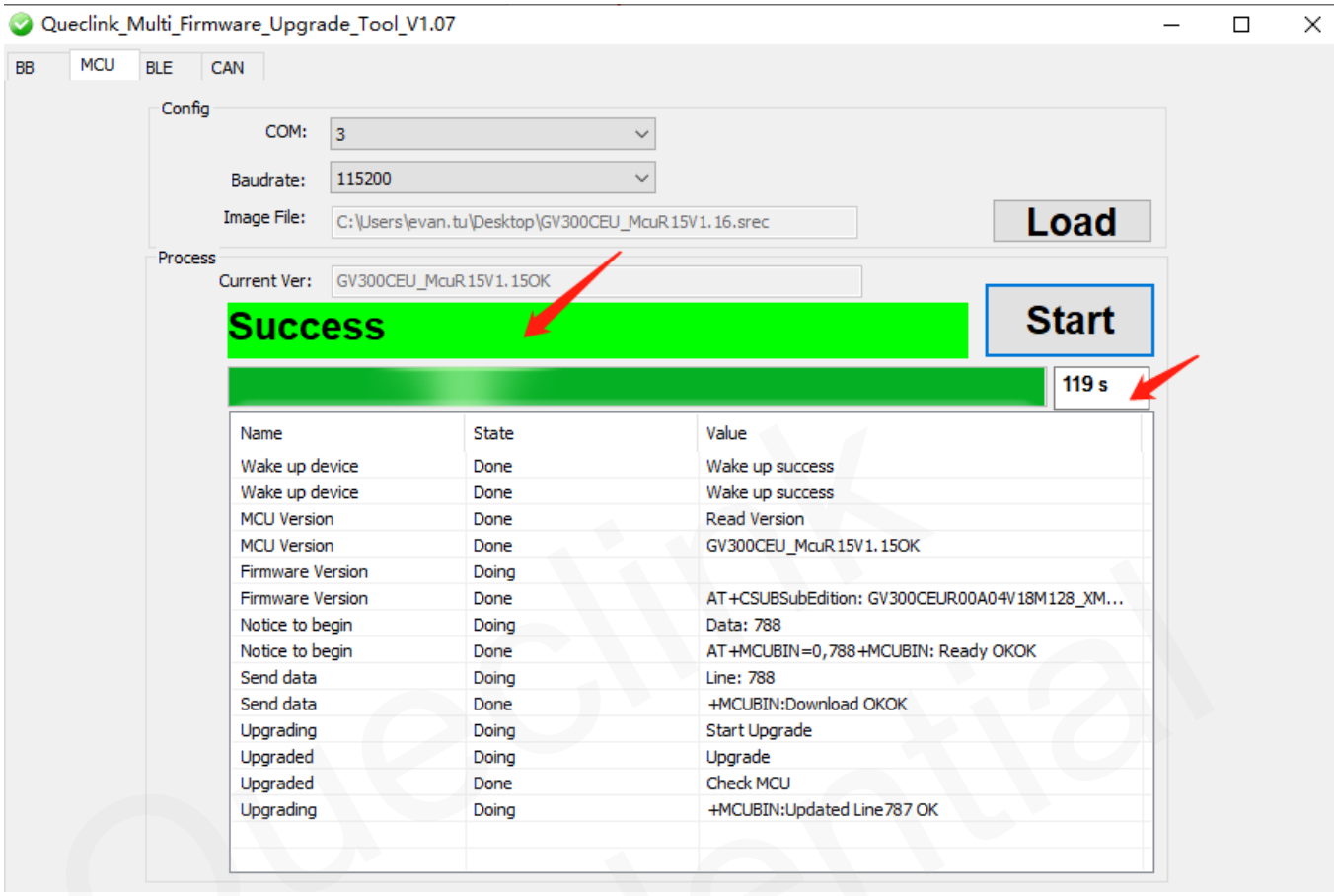


Figure 6

1.4.3. BLE Firmware Upgrade

Step 1: Connect and then power on the device (**Note**: Before upgrade, please make sure that BB is powered on normally).

Step 2: Click "*BLE*".

Step 3: Load MCU/BLE Files (.GBL)

Step 4: Select COM Port and Baudrate.

Please see the **Figure 7**.

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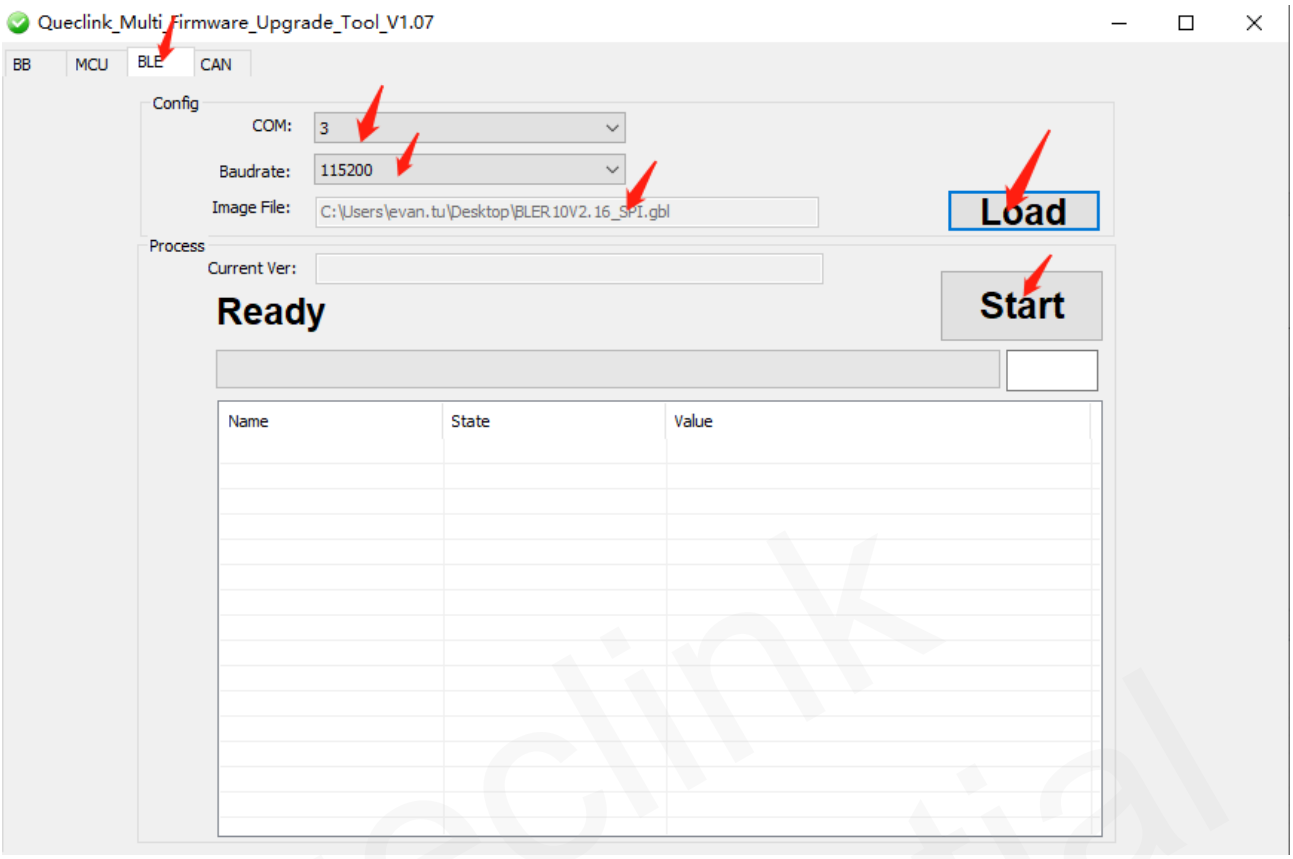


Figure 7

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Step 5: After completing the above configuration, click the "*Start*" button to upgrade, as shown in **Figure 8**.

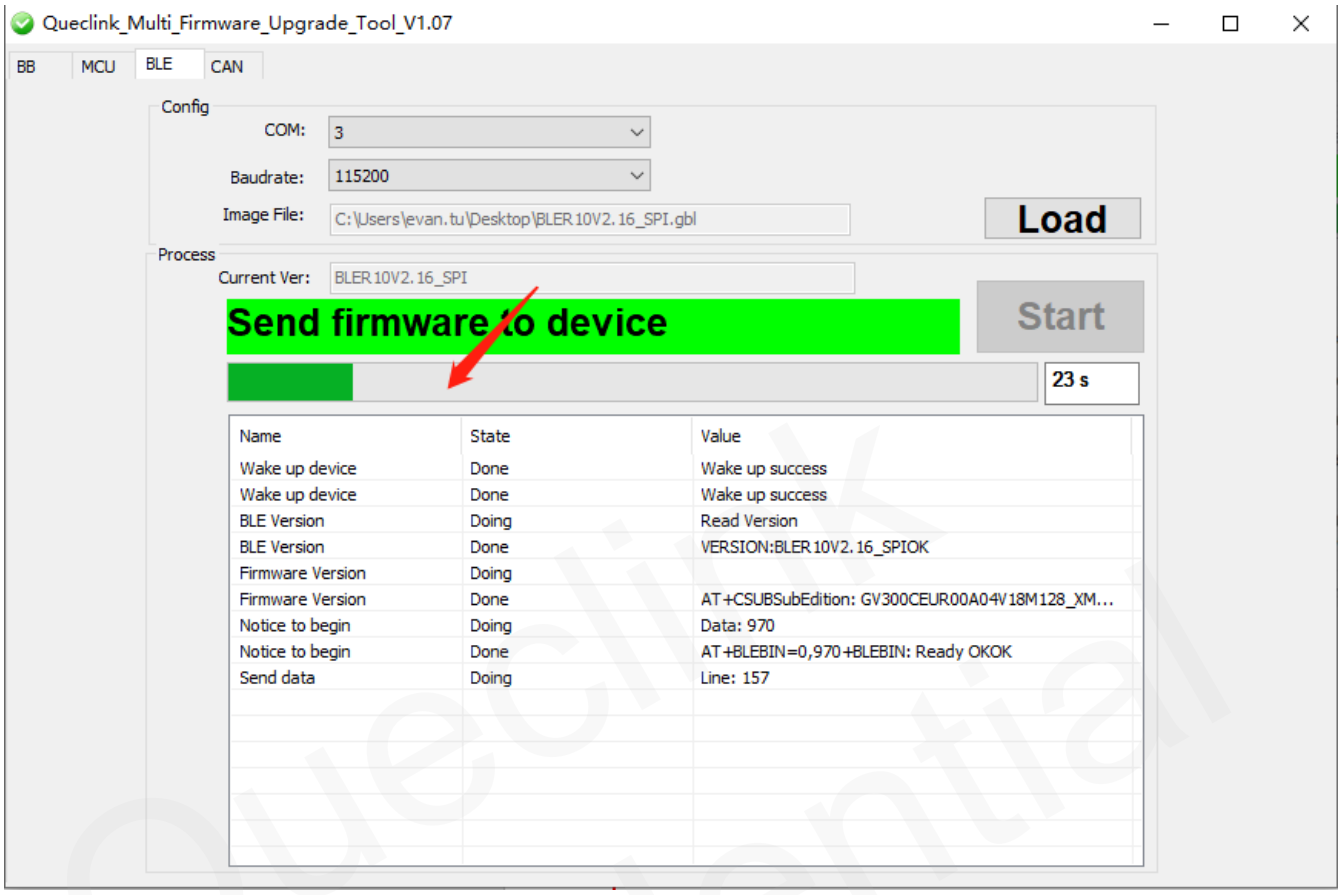


Figure 8

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Step 6: The upgrade is completed as shown in **Figure 9**.

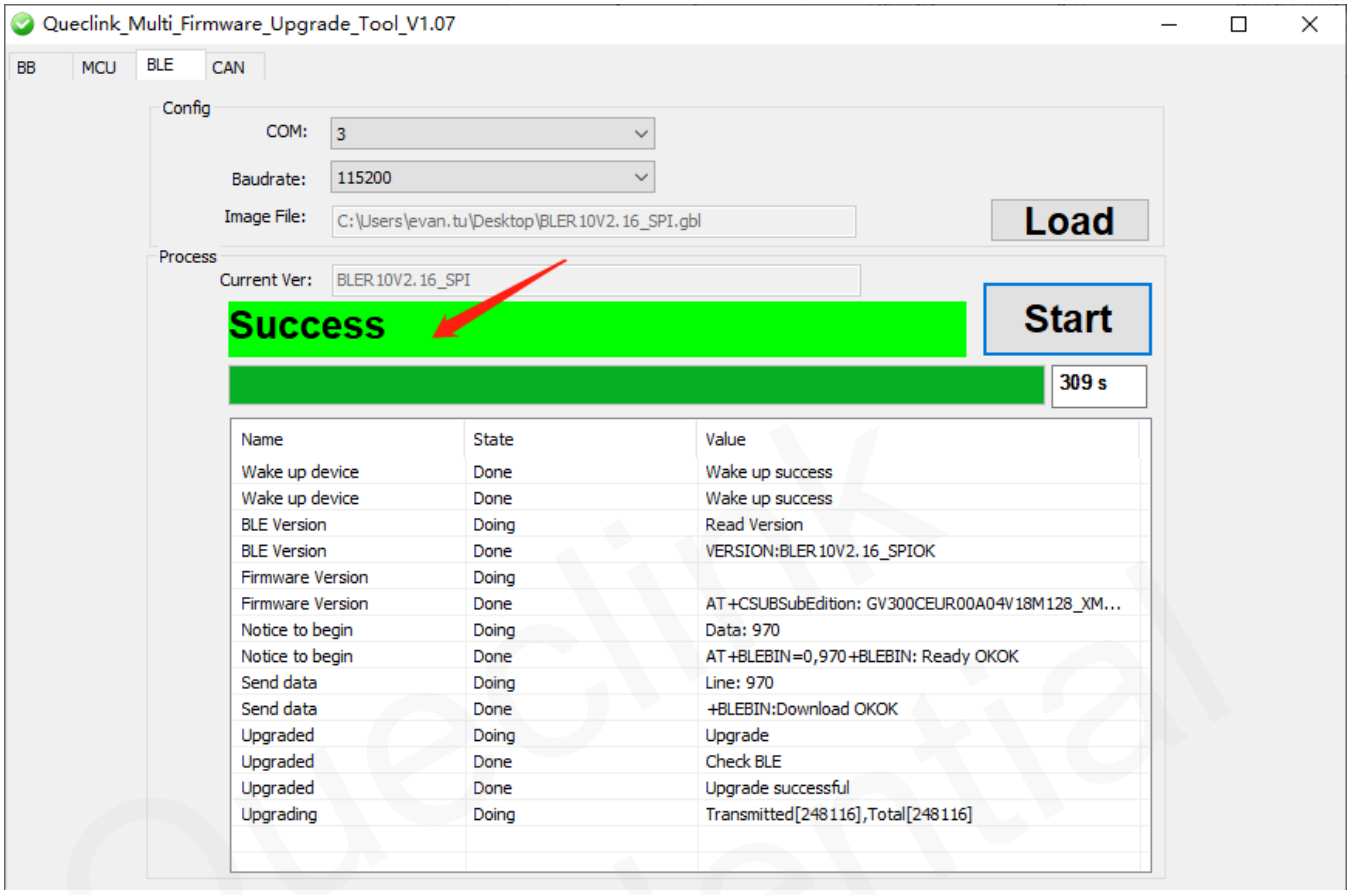


Figure 9

1.4.4. CAN Firmware Upgrade

Step 1: Connect and then power on the device (**Note**: Before upgrade, please make sure that BB is powered on normally).

Step 2: Click "*CAN*".

Step 3: Load CAN Files (.FRM)

Step 4: Select COM Port and Baudrate.

Please see the **Figure 10**.

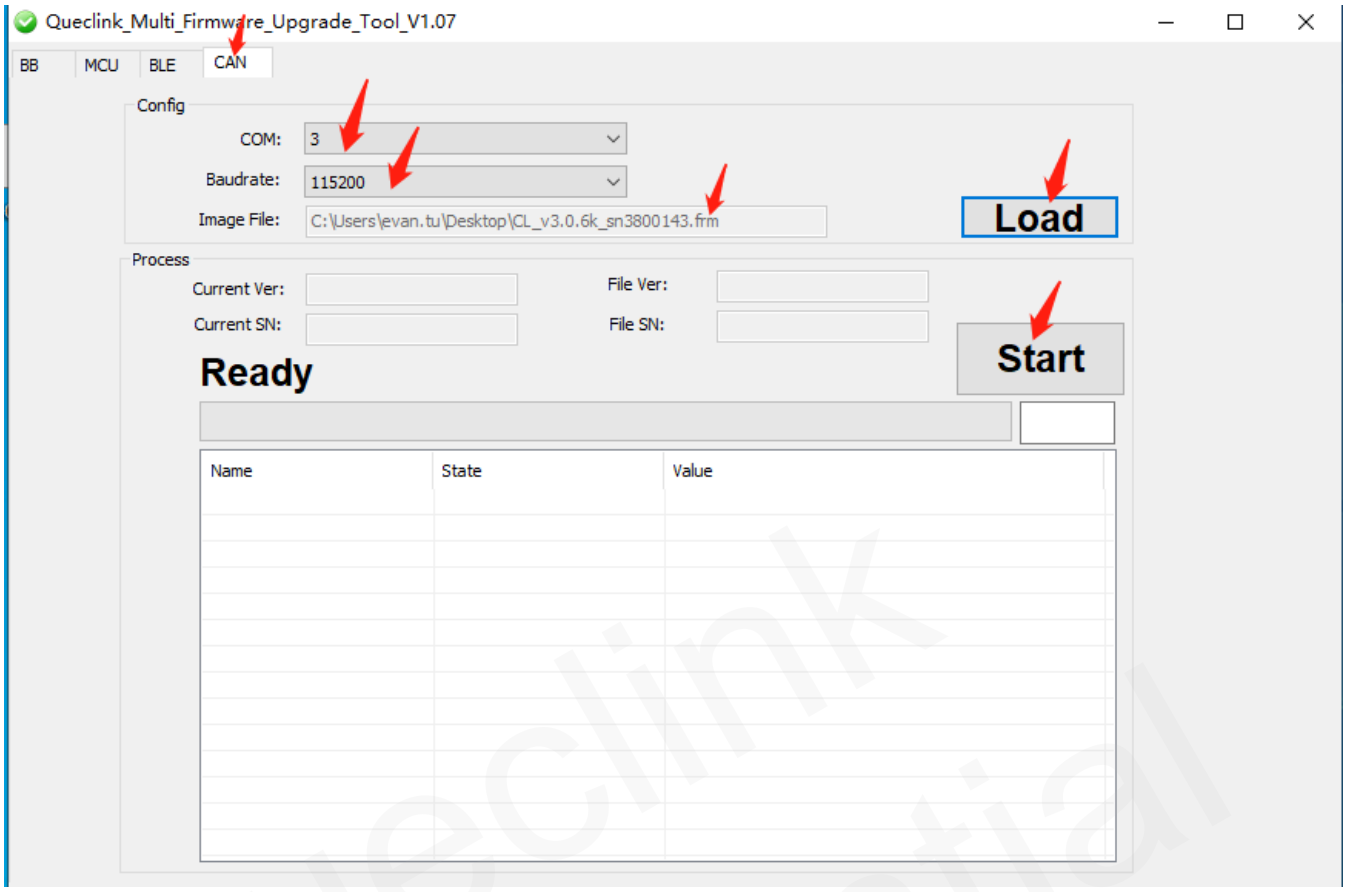


Figure10

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Step 5: After completing the above configuration, click the "*Start*" button to upgrade, as shown in **Figure 11**.

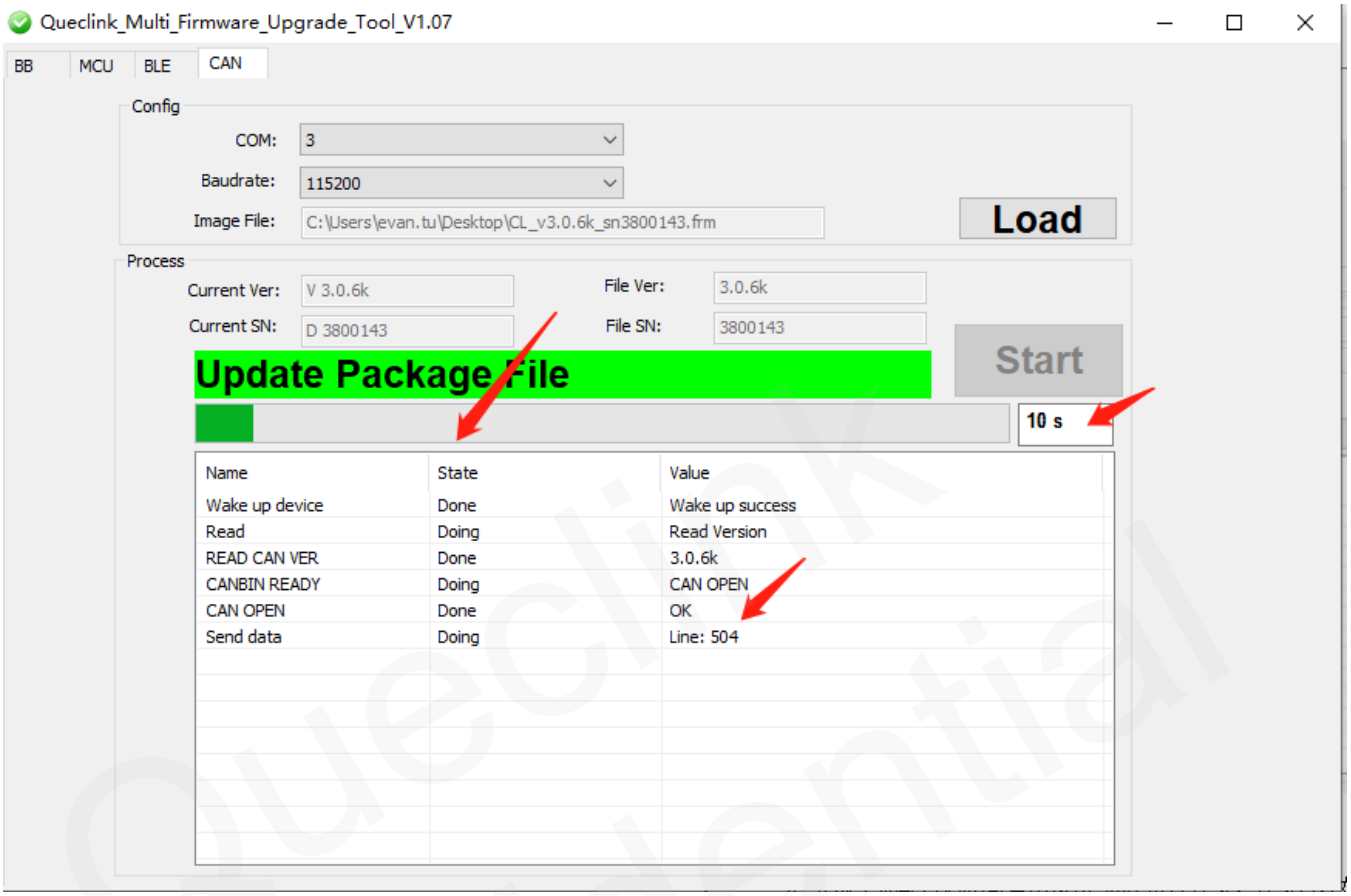


Figure 11

Step 6: The upgrade is completed as shown in **Figure 12**.

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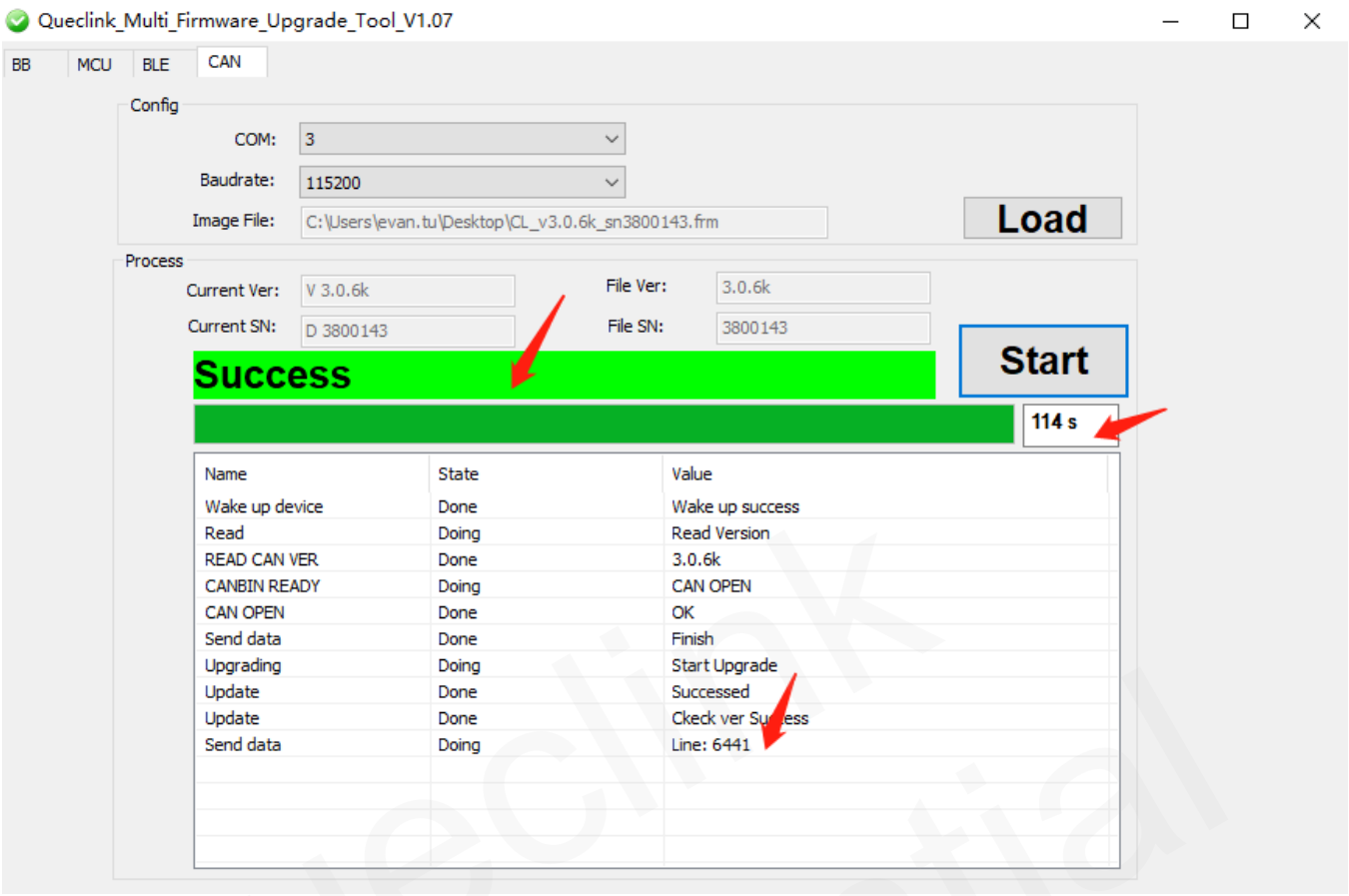


Figure 12

1.4.5. GPS Firmware Upgrade

This function is waiting for integration.

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