



# **GL500M Series Manage Tool User Guide**

## **EGPRS/LET Cat-M1/LTE Cat-NB1/GNSS Tracker**

QSZTRACGL500MMT0101

Version: 1.01

*International Telematics Solutions Innovator*

[www.queclink.com](http://www.queclink.com)

|                            |                                      |
|----------------------------|--------------------------------------|
| <b>Document Title</b>      | GL500M Series Manage Tool User Guide |
| <b>Version</b>             | 1.01                                 |
| <b>Date</b>                | 2018-8-17                            |
| <b>Status</b>              | Released                             |
| <b>Document Control ID</b> | QSZTRACGL500MMT0101                  |

## General Notes

Queclink offers this information as a service to its customers, to support application and engineering efforts that use the products designed by Queclink. The information provided is based upon requirements specifically provided to Queclink by the customers. Queclink has not undertaken any independent search for additional relevant information, including any information that may be in the customer's possession. Furthermore, system validation of this product designed by Queclink within a larger electronic system remains the responsibility of the customer or the customer's system integrator. All specifications supplied herein are subject to change.

## Copyright

This document contains proprietary technical information which is the property of Queclink. Copying of this document, distribution to others or using or communication of the contents thereof is forbidden without express authority. Offenders are liable to the payment of damages. All rights are reserved in the event of a patent grant or the registration of a utility model or design. All specifications supplied herein are subject to change without notice at any time.

**Copyright © Queclink Wireless Solutions Co., Ltd. 2019**

## Contents

|   |    |
|---|----|
| 0. Revision History.....                                | 1  |
| 1. GL500M Series Manage Tool Interface .....            | 2  |
| 1.1. System Requirements.....                           | 2  |
| 1.2. COM Settings.....                                  | 3  |
| 1.3. Setting Window.....                                | 4  |
| 1.3.1. Title Bar .....                                  | 4  |
| 1.3.2. Menus.....                                       | 4  |
| 1.3.3. Toolbar.....                                     | 5  |
| 1.3.4. Status Bar.....                                  | 6  |
| 1.3.5. Command Browser and Command Operation Space..... | 6  |
| 1.4. Operation Result Interfaces.....                   | 8  |
| 1.4.1. Interfaces for Successful Operation.....         | 8  |
| 1.4.1.1. Command Read Successfully .....                | 8  |
| 1.4.1.2. Command Sent Successfully .....                | 8  |
| 1.4.2. Interfaces for Failed Operation.....             | 8  |
| 1.5. Device Configuration .....                         | 9  |
| 1.6. Load from Local .....                              | 10 |
| 1.7. Save to Local.....                                 | 10 |
| 2. Device Upgrade .....                                 | 11 |

## 0. Revision History

| Version | Date       | Author     | Description of Change             |
|---------|------------|------------|-----------------------------------|
| 1.00    | 2018-08-17 | Raitt Hu   | Initial                           |
| 1.01    | 2019-09-30 | Frank Wang | Modified Chapter 2 Device Upgrade |

## 1. GL500M Series Manage Tool Interface

GL500M Series Manage Tool is used to configure parameters for GL500M Series through USB cable (Data\_Cable\_M). It is easy for developers to configure GL500M Series with it for the interface is simple and functional. All commands can also be sent via SMS or network.

The administrators can also use the Manage Tool to configure GL500M Series before delivery to its customers. But it is recommended for the customers to establish a backend server and to control GL500M Series via SMS or network. Please refer to “GL500M Series @Track Air Interface Protocol” for details.

Before using the Manage Tool, please find “PL2303\_Prolific\_DriverInstaller\_Vxxxx” in developer suite and install the driver firstly. After that a new COM port will be found in your computer, and then please follow the steps below:

- (1) Power on GL500M Series.
- (2) Connect GL500M Series to PC with USB Cable ( DATA\_CABLE\_M).
- (3) Run “Queclink GL500M\_Manage\_Tool\_Vx.xx.exe”.

### 1.1. System Requirements

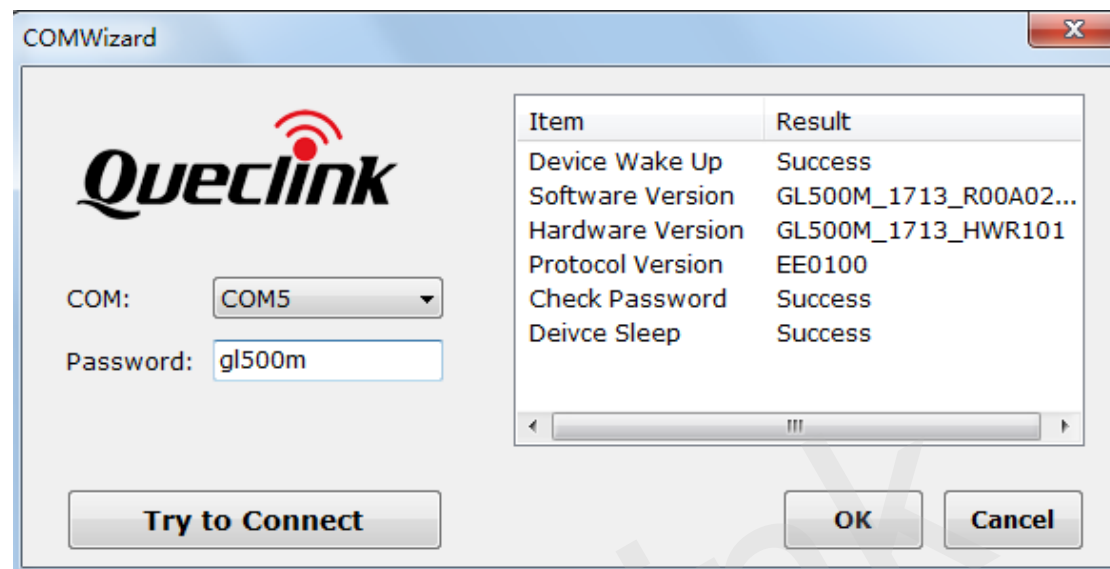
Before using the Manage Tool, please make sure the computer system meets the following configurations:

- ◆ Windows 98SE;
- ◆ Windows ME Windows 2000 SP4;
- ◆ Windows XP SP2 and above (32 & 64 bit);
- ◆ Windows Server 2003 (32 & 64 bit);
- ◆ Windows Server 2008 (32 & 64 bit);
- ◆ Windows Vista (32 & 64 bit);
- ◆ Windows 7 (32 & 64 bit);
- ◆ Windows 8 (32 & 64 bit);

Supported System Environments:

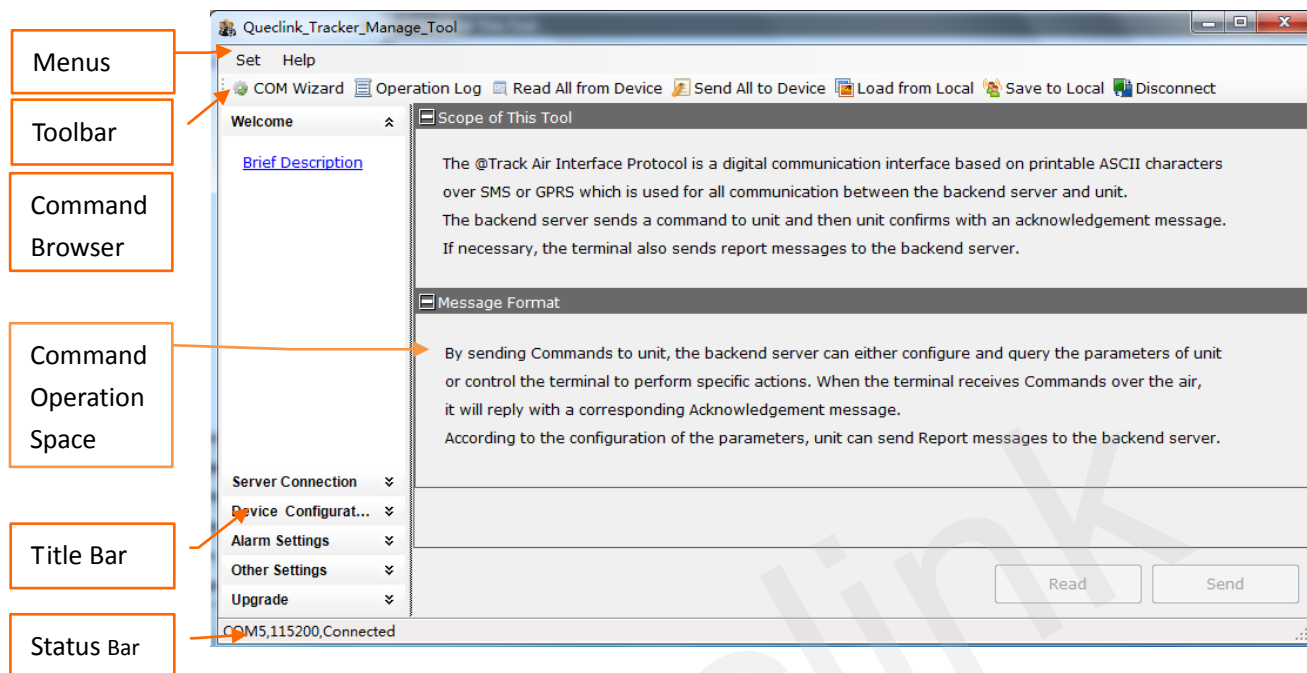
- ◆ Microsoft .NET Framework 2.0 or higher

## 1.2. COM Settings



Select the COM port, input the password “gl500m” (“gl500m” by default), click “Try to Connect” button and then click “OK” button, the setting window will display.

### 1.3. Setting Window



#### 1.3.1. Title Bar

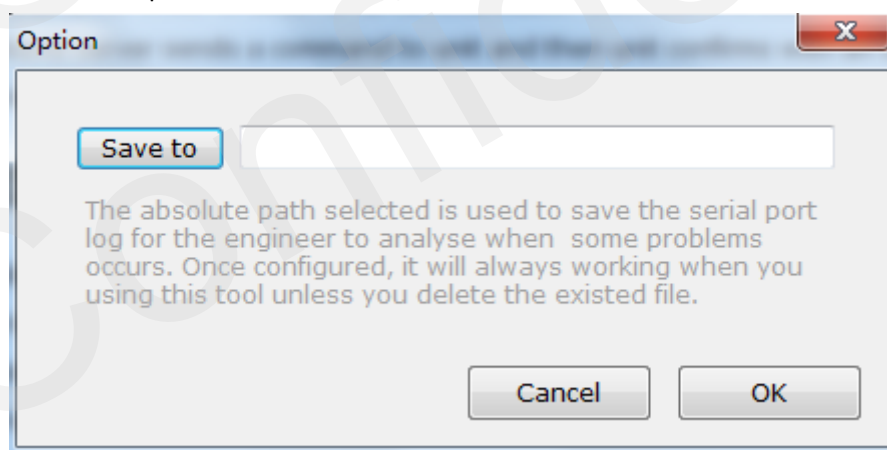
Title Bar indicates the command that is currently being operated.

#### 1.3.2. Menus

There are menu options including "Set" and "Help".

##### 1.3.2.1. Set Menu

Set menu contains "Option".

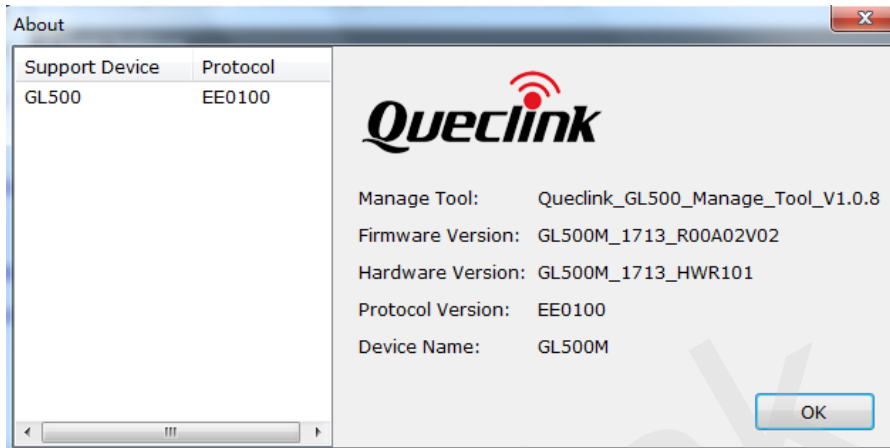


**[Option]:** It is used to save the serial port log for the engineer to analyze when problems occur.

### 1.3.2.2. Help Menu

Help menu contains the options of “About”.

**[About]:** The following window will pop up upon selecting “About”.



“Manage Tool” indicates the version of the Manage Tool.

“Firmware Version” indicates the firmware version of the device.

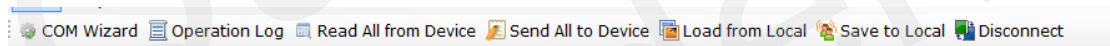
“Hardware Version” indicates the hardware version of the device.

“Protocol Version” indicates the protocol version that the Manage Tool conforms to.

“Device Name” indicates the name of the device.

### 1.3.3. Toolbar

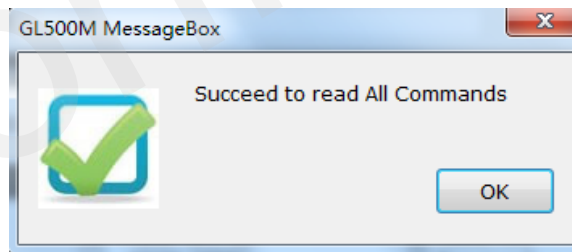
Toolbar contains “COM Wizard”, “Operation Log”, “Read All from Device”, “Send All to Device”, “Load from Local”, “Save to Local”, and “Connect/Disconnect to COM” as shown below.



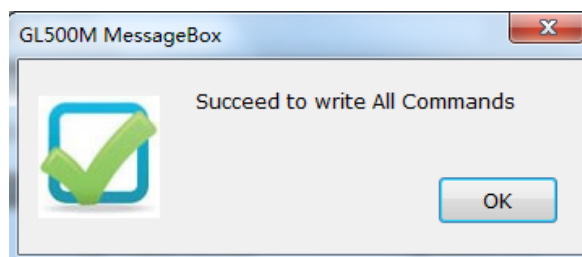
**[COM Wizard]:** It is used to set the COM information and password. Please refer to Chapter 1.2 for more information.

**[Operation Log]:** It is used to display/hide the operation log.

**[Read All from Device]:** It is used to read all commands.



**[Send All to Device]:** It is used to write all commands.





**[Load from Local]:** It is used to load local configuration file.

**[Save to Local]:** It is used to save all configurations to file.

**[Connect/Disconnect to COM]:** It is used to connect/disconnect COM manually.

#### 1.3.4. Status Bar

COM5,115200,Connected

The Status Bar will display system state and current state.

**[COM]:** COM information.

**[115200]:** Baud rate.

**[Connected/Disconnected]:** Connection state.

#### 1.3.5. Command Browser and Command Operation Space

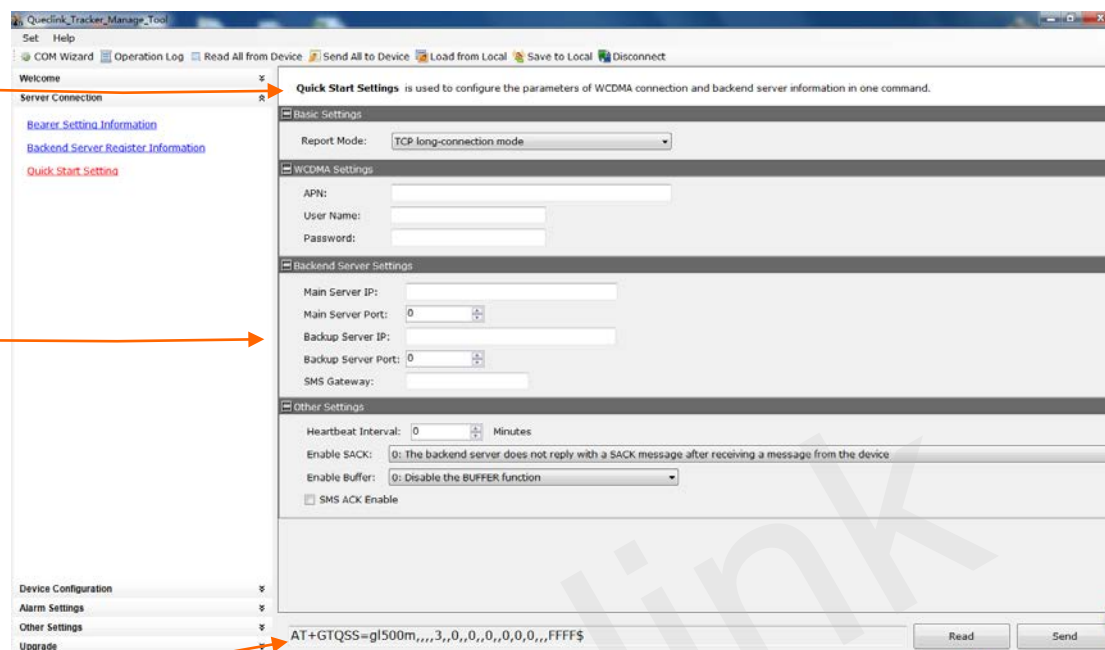
This area is mainly used to read and set the parameters for the device.

##### 1.3.5.1. Command Browser

Command Browser divides all @Track protocol commands into several parts. Click Title Bar in Command Browser, parameters of current command will be shown in Command Operation Space.

| Command Browser      | Function Description                | Command |
|----------------------|-------------------------------------|---------|
| Server Connection    | Bearer Setting Information          | GTBSI   |
|                      | Backend Server Register Information | GTSRI   |
|                      | Quick Start Settings                | GTQSS   |
| Device Configuration | Global Configuration                | GTCFG   |
|                      | Auto-Unlock PIN                     | GTPIN   |
|                      | Software Protocol Watchdog          | GTDOG   |
|                      | Time Adjustment                     | GTTMA   |
|                      | Non-Movement Detection              | GTNMD   |
|                      | Preserve Special Device Logic State | GTPDS   |
| Alarm Setting        | Geo-fence Configuration             | GTGEO   |
|                      | Temperature Alarm                   | GTTEM   |
|                      | Light Sensor Alarm                  | GTLSA   |
| Other Settings       | Real Time Operation                 | GTRTO   |
|                      | White List Configuration            | GTWLT   |
|                      | Over-the-Air Configuration Update   | GTUPC   |
| Upgrade              | File transfer                       |         |
|                      | Device upgrade                      |         |

### 1.3.5.2. Command Operation Space



**Command Description**

**Parameters Area**

**Command Display**

**[Command Description]:** It is, as indicated above, a short description of a command.

**[Parameters Area]:** Set/Read current command parameters in this area.

**[Command Display]:** It shows the command and the corresponding parameter in Parameters Area.

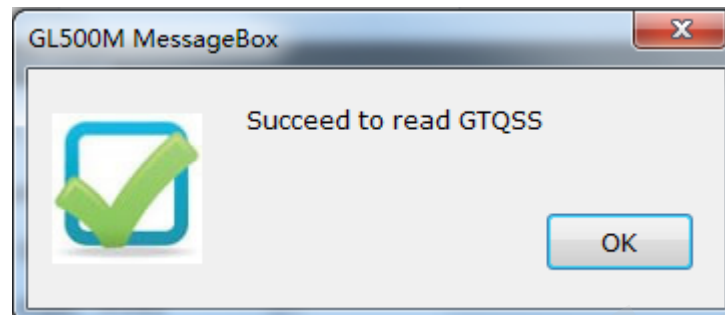
**[Read]:** Click this button to read the command from the device.

**[Send]:** Click this button to send the command to the device.

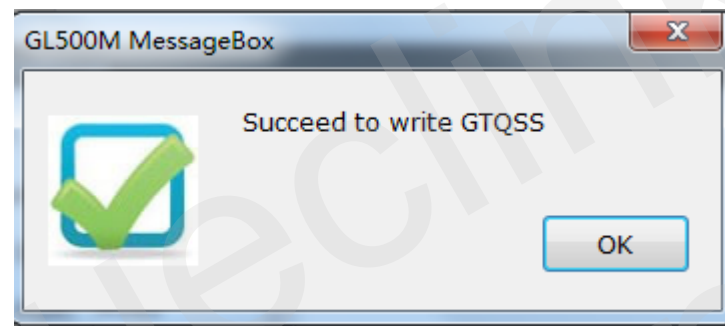
## 1.4. Operation Result Interfaces

### 1.4.1. Interfaces for Successful Operation

#### 1.4.1.1. Command Read Successfully

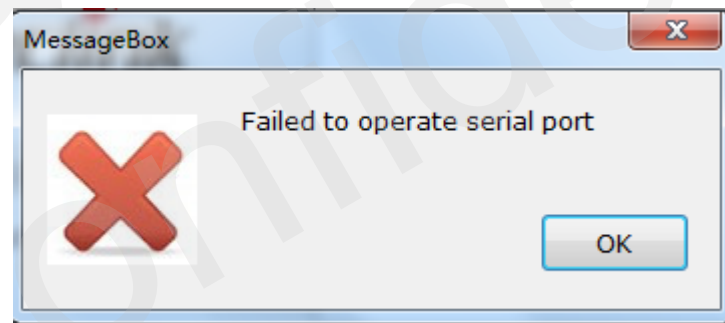


#### 1.4.1.2. Command Sent Successfully

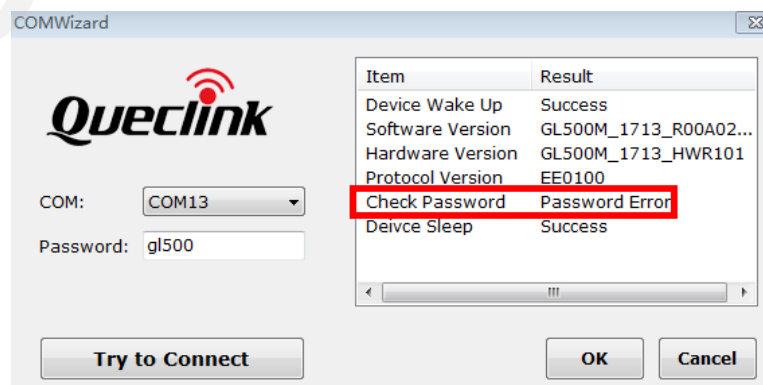


### 1.4.2. Interfaces for Failed Operation

Problem may be with the COM port if following error occurs.



Please input the correct device password if Password Error occurs.



The Manage Tool is developed based on the @Track Air Interface Protocol. Please refer to *"GL500M Series @Track Air Interface Protocol"* for details.



Select a command in Command Browser Space. After that, the parameters of the function will be shown in Command Operation Space.

The to-be-sent command message will be generated based on the inputs. Please note that the command message can also be sent to GL500M Series via SMS or network.

Read the parameters from GL500M Series and modify them as needed.

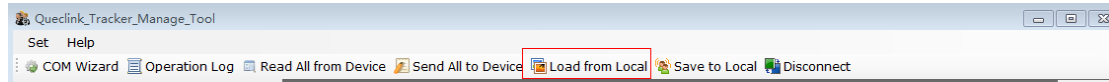
Set parameters in Command Operation Space. Please refer to “GL500M Series @Track Air Interface Protocol” for the meaning of each parameter.

Click the “Send” button to download the parameters of this command to GL500M Series.

The parameters of GTSRI and GTBSI will also be changed when the parameters of GTQSS are changed.

## 1.6. Load from Local

Load the local configuration file and execute it. Select “Load from Local”, and then select the needed configuration file.



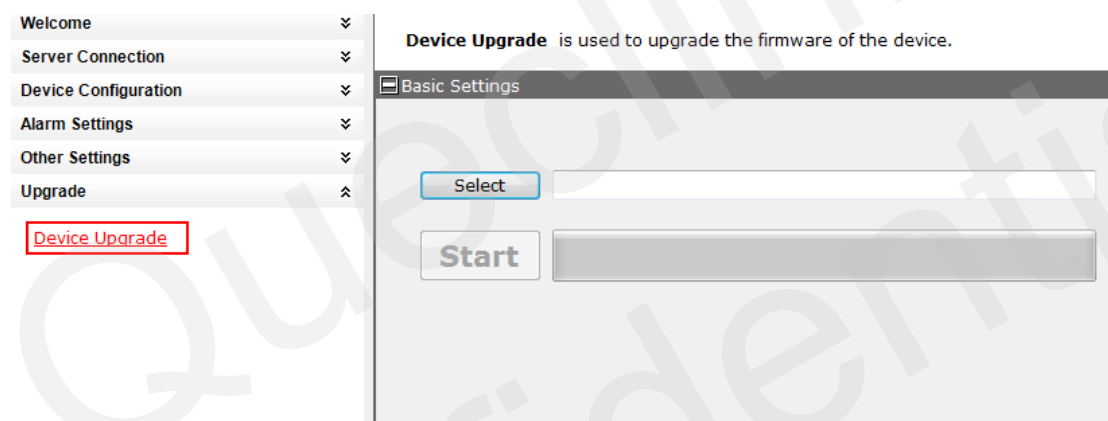
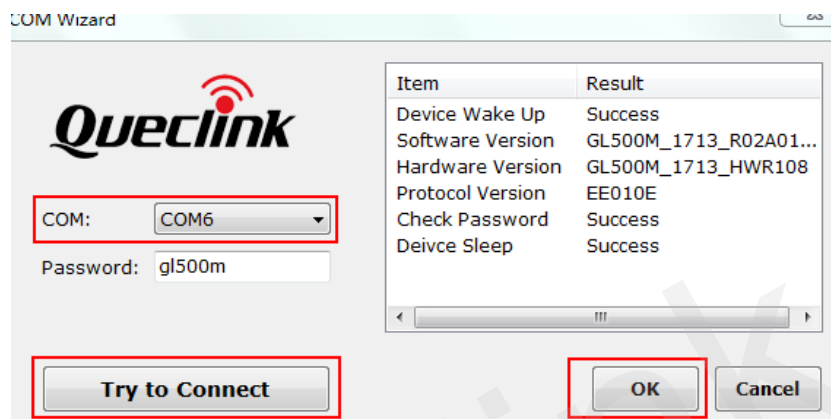
## 1.7. Save to Local

Select “Save to Local” and choose a folder, type in the name of the configuration file, and then click “Save” button

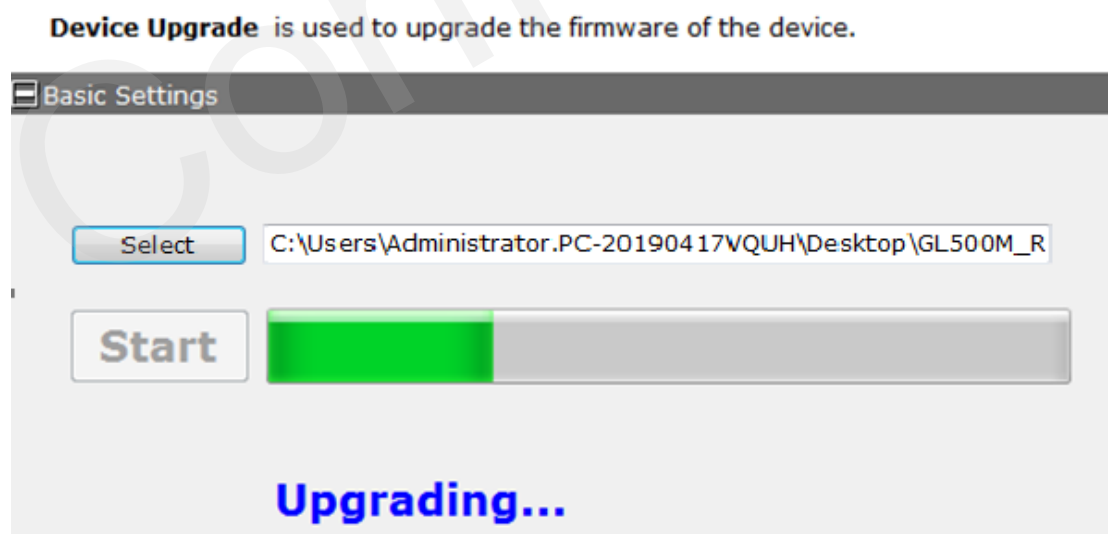


## 2. Device Upgrade

Connect the device to the PC by USB cable first. Open the tool and then select the correct COM port. Click “Try to Connect”. Click “OK” when “Success” is displayed to enter the setting interface.

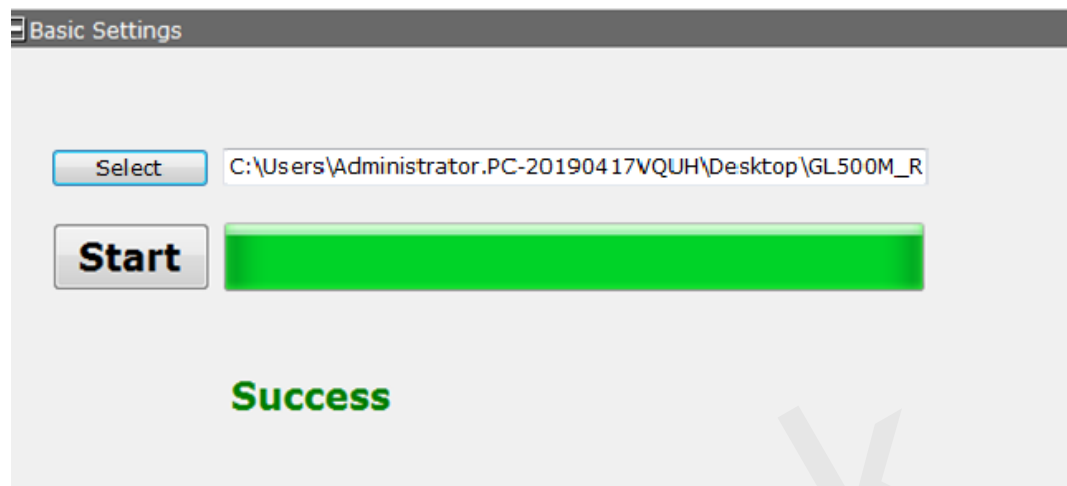


- 1) Click “Select”, select the file for upgrade (“.enc” file format).
- 2) Click “Start”, then the interface of upgrade process will show as below:



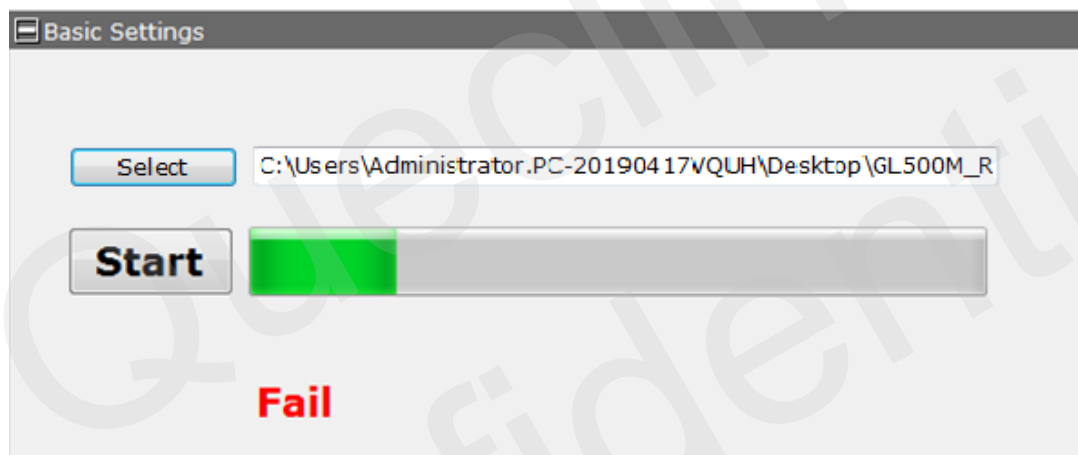
3) If upgrade is successful, the interface will show as below:

**Device Upgrade** is used to upgrade the firmware of the device.



4) If upgrade failed, the interface will show as below:

**Device Upgrade** is used to upgrade the firmware of the device.



If upgrade failure happens after multiple trials, try to do as following:

- 4.1) Power off the device first.
- 4.2) Open the tool, select the correct COM port and click "Try to Connect". "Fail" will be displayed but ignore it for the moment.
- 4.3) Click "Goto Default" to enter the setting interface.



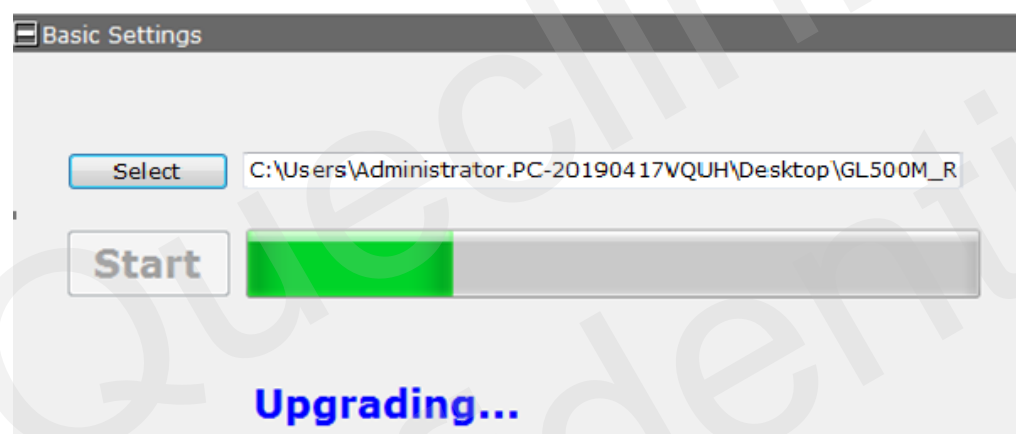
4.4) Select the correct firmware.

**Device Upgrade** is used to upgrade the firmware of the device.



4.5) Click "Start" and power on the device within 10s.

**Device Upgrade** is used to upgrade the firmware of the device.



**Device Upgrade** is used to upgrade the firmware of the device.

