GL320M Series Manage Tool User Guide

EGPRS/LTE Cat-M1/LTE Cat-NB2/GNSS Tracker

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0. Revision History

Version	Date	Author	Description of Change
1.00	2021-03-29	Jesus Shu	Initial

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1. GL320M Series Manage Tool Interface

GL320M Series Manage Tool is used to configure parameters for GL320M Series through Type-C data cable. It is easy for developers to configure GL320M 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 GL320M Series before delivery to its customers. But it is recommended for the customers to establish a backend server and to control GL320M Series via SMS or network. Please refer to "*GL320M Series @Track Air Interface Protocol*" for details.

Before using the Manage Tool, please find "PL2303_Prolific_DriverInstaller_v1160" 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 GL320M Series.
(2) Connect GL320M Series to PC with Type-C data cable.
(3) Run "Queclink GL320M_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

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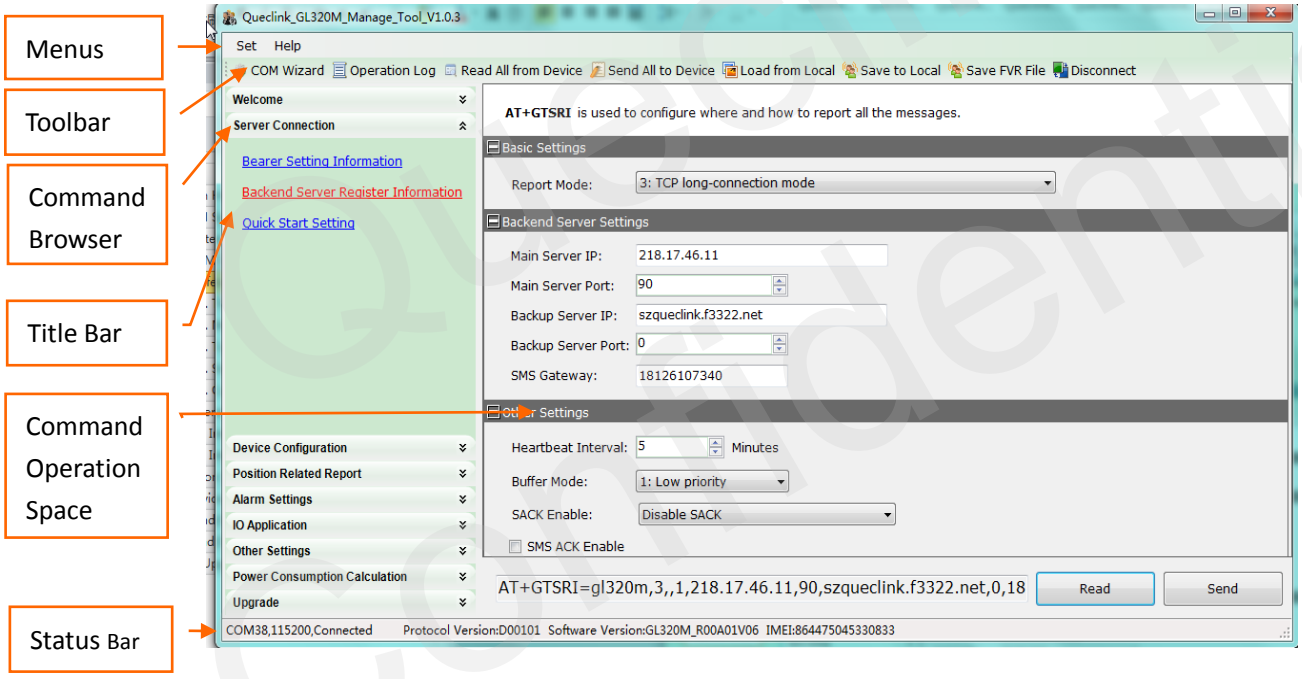
1.2. COM Settings



Select the COM port, input the password “GL320m”, Click “Try to Connect” and the main window will be displayed.

1.3. Professional Setting Window

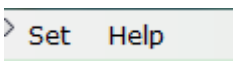


1.3.1. Title Bar

Title Bar indicates the command that is currently being operated.

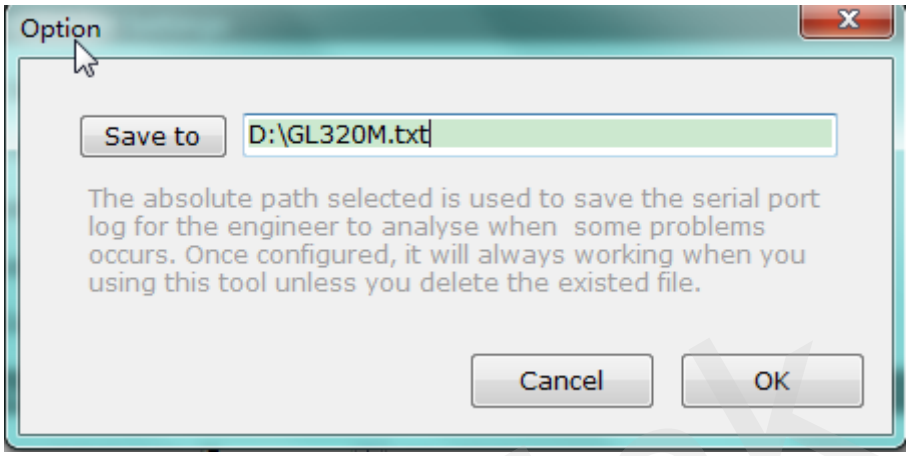
1.3.2. Menus

There are menu options including “Set”, and “Help”.



1.3.2.1. Set Menu

2. Set menu contains “Option”.
3. **[Option]:** It is used to save log.



1.3.2.2. Help Menu

Help menu contains the option of “About”.

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



- “Mange Tool Version” indicates the version of the Manage Tool.
- “Firmware Version” indicates the firmware the Manage Tool is used for.
- “Hardware Version” indicates the device’s HW version.
- “Protocol Version” indicates the GL320M Series @Track Air Interface Protocol version.
- “Device Name” indicates the name of the device.

1.3.3. Toolbar

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



[COM Setting]: It is used to set the COM information and password. For details, please refer to

Chapter 1.2.

[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.

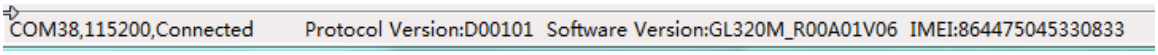
[Load from Local]: It is used to load local configuration file.

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

[Save File FVR]: It is used to save all configurations to FVR file.

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

1.3.4. Status Bar



The Status Bar will display system state and current state.

[System Status]: It indicates the serial number of commands which are waiting to be executed.

[Current Status]: It indicates the current COM status, IMEI, protocol version and software version which are read from the device.

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 this command will be shown in Command Operation Space.

Command Browser	Function Description	Command
Server Connection	Bearer Setting Information	**GTBSI**
	Backend Server Registration Information	**GTSRI**
	Quick Start Settings	**GTQSS**
Device Configuration	Global Configuration	**GTCFG**
	Auto-Unlock PIN	**GTPIN**
	Protocol Watchdog	**GTDOG**
	Time Adjustment	**GTTMA**
	Non-Movement Detection	**GTNMD**
	Function Key Setting	**GTFKS**
	Outside Working Hours	**GTOWH**
	Network Select	**GTNTS**
	Binding SIM Card	**GTSIM**
Position Related Report	Fixed Position Report	**GTFRI**
Alarm Setting	Geo-fence Configuration	**GTGEO**
	Speed Alarm	**GTSPD**
	Temperature Alarm	**GTTEM**
	Motion sensor Alarm	**GTMSA**
IO Application	Digital Input Settings	**GTDIS**
Other Settings	Real Time Operation	**GTRTO**

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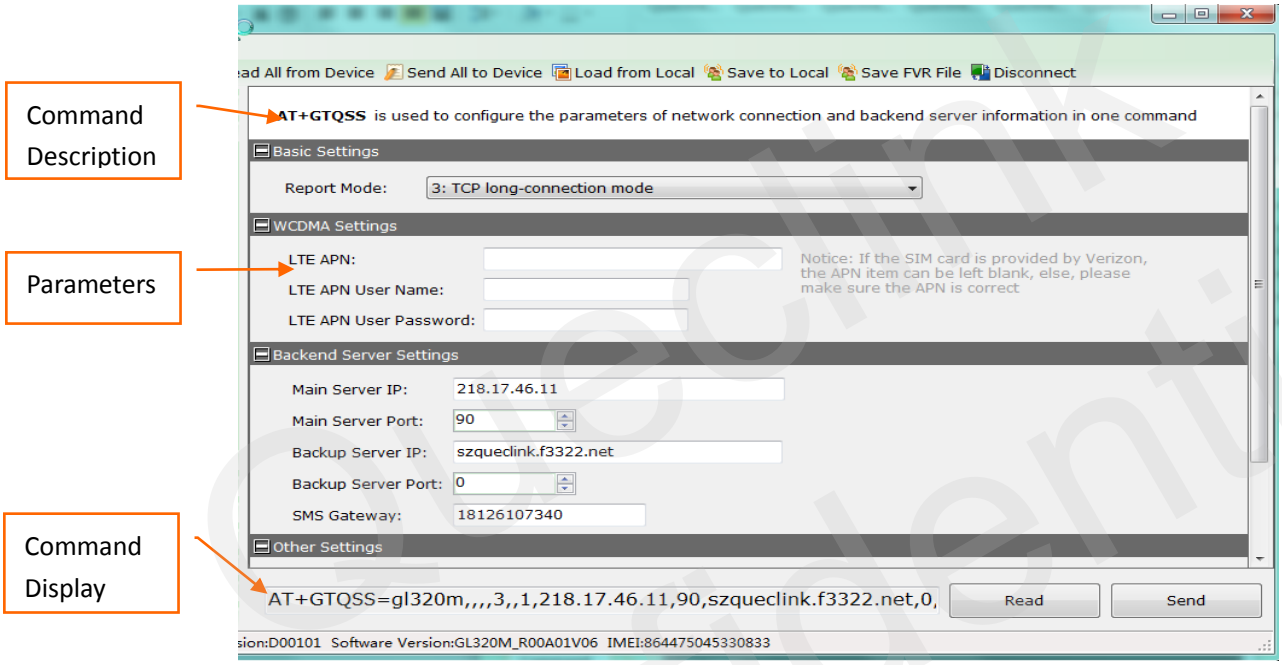
	Data Transfer Between UART and Backend Server	**GTDTA**
	Settings for SMS with Google Maps Link	**GTGLM**
	Over-the-Air Configuration Update	**GTUPC**
	Settings for Preserving Special Logic State	**GTPDS**
	Command String Storage	**GTCMD**
	User Defined Function	**GTUDF**
	White List Configuration	**GTWLT**
	GPS-assisted Motion Measurement	**GTGAM**

1.3.5.2 Command Operation Space



[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.

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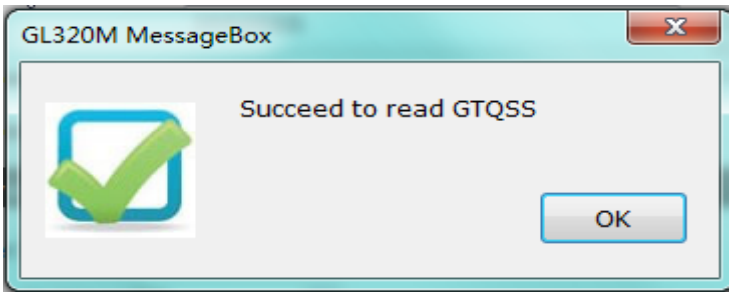
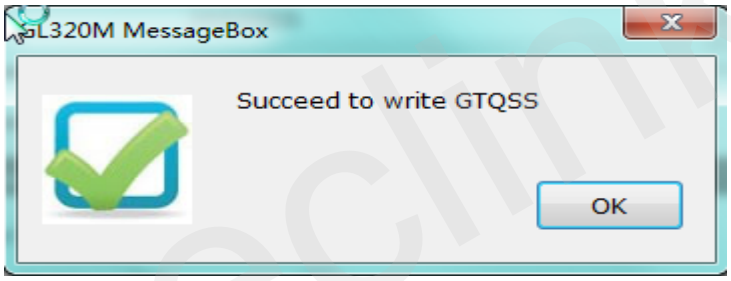
1.4. Operation Result Interfaces

1.4.1 Interfaces for Successful Operation

1.4.1.1 Command Read Successfully

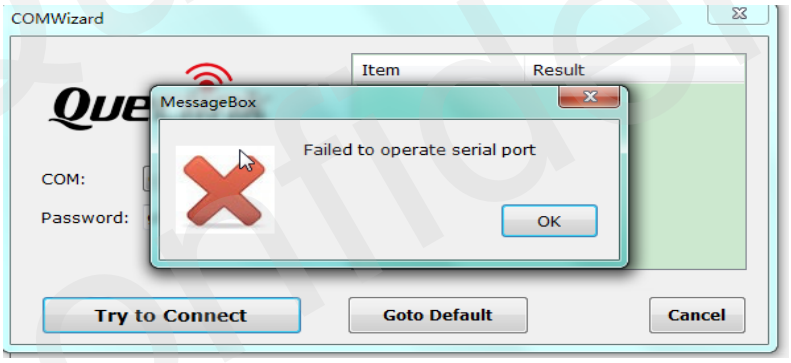


1.4.1.2 Command Sent Successfully

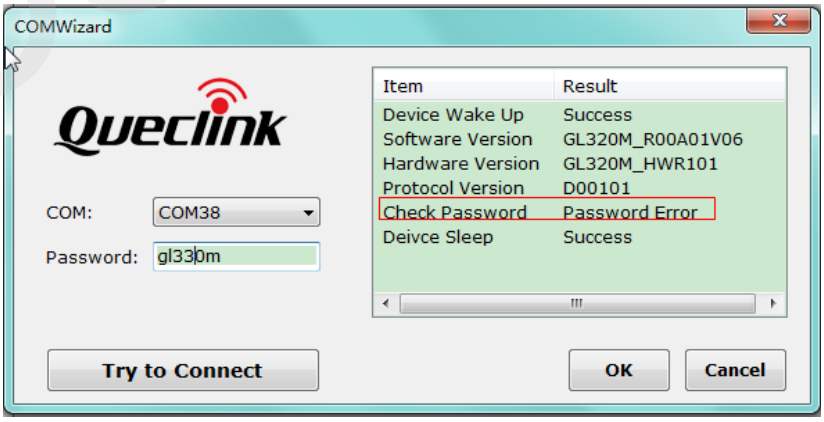


1.4.2 Interfaces for Failed Operation

Problem may be with the COM port if following error occurs



Please input the correct device password if Password Error occurs.

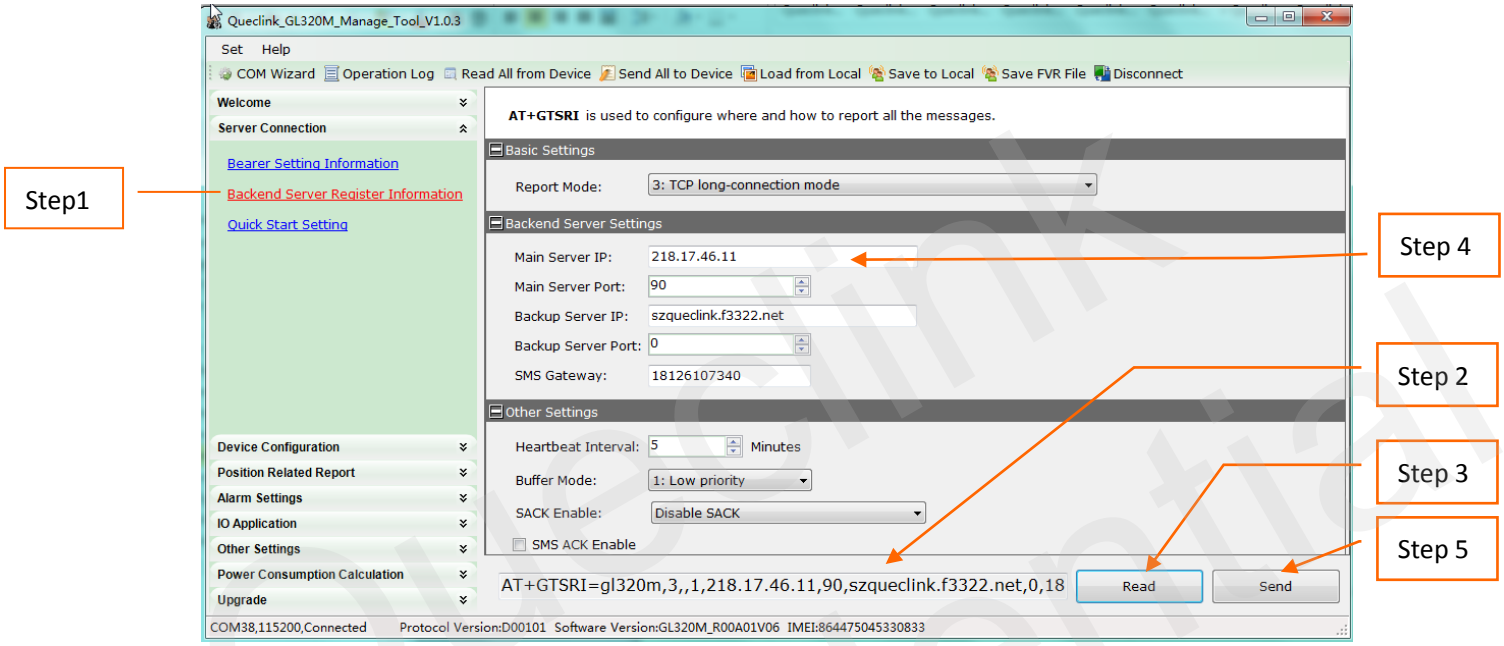


2. Operation Instruction

2.1. Device Configuration in Professional Setting Mode

The Manage Tool is developed based on the @Track Air Interface Protocol. Please refer to "*GL320M Series @Track Air Interface Protocol*" for details.

The following shows a general procedure to configure GL320M Series with the Manage Tool.



Step 1: Select a Command

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

Step 2: Create Command Automatically

The to-be-sent command message will be generated based on the inputs. Please note that the command message can also be sent to GL320M Series via SMS or network.

Step 3: Read Command from the Device

Read the parameters from GL320M Series and modify them as needed.

Step 4: Set Parameters

Set parameters in Command Operation Space. Please refer to "GL320M Series @Track Air Interface Protocol" for the meaning of each parameter.

Step 5: Send a Command to the Device

Click the "Send" button; download the parameters of this command to GL320M Series.

Note:

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

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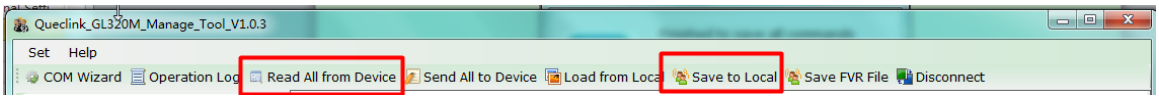
2.2. Read/Save All Configurations

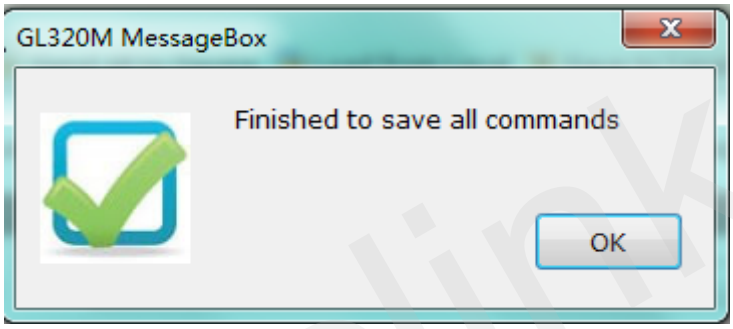
Step 1: It is recommended to read all configurations from the device before saving the configuration. Select “Real All from Device”→“Save to Local”.

Step 2: After reading the configuration successfully, click “Save to Local” in toolbar.

Step 3: Select a folder, type in the name of configuration file, and then click “Save” button.

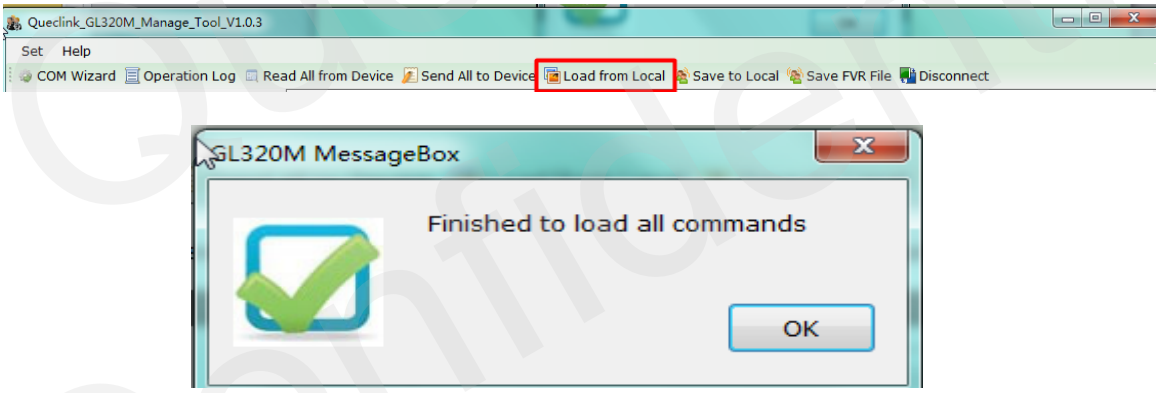


Step 4: The configuration information is saved successfully.

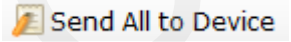


2.3. Load/Send All Configurations

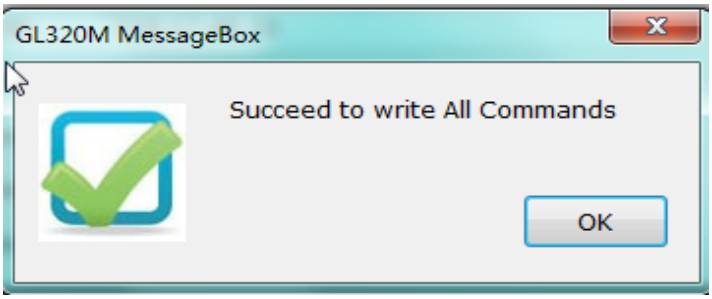
Step 1: Load the configuration file or set all parameters of the commands before executing them. Select “Load from Local” and then select the needed configuration file.



Step 2: The user can set the parameters of the commands based on the configuration file, and then click “Send All to Device” in toolbar.

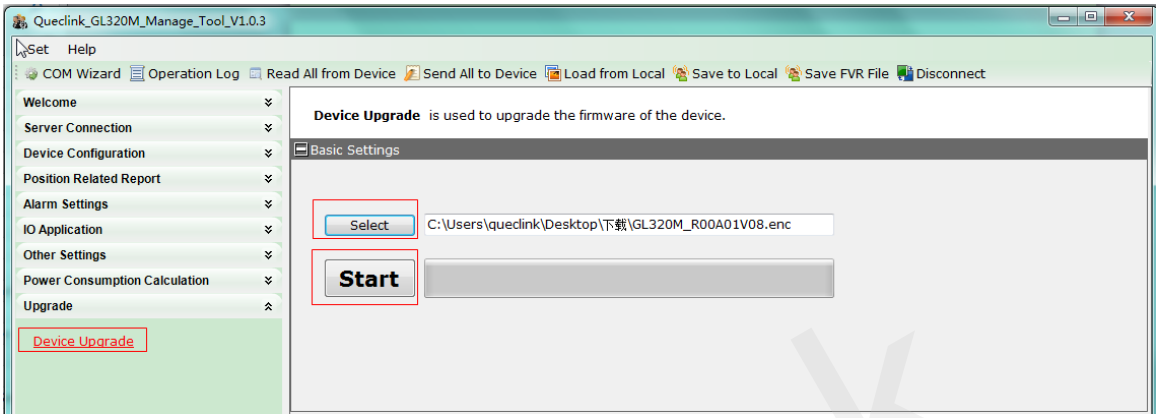


Step 3: The Manage Tool will write all commands to the device.



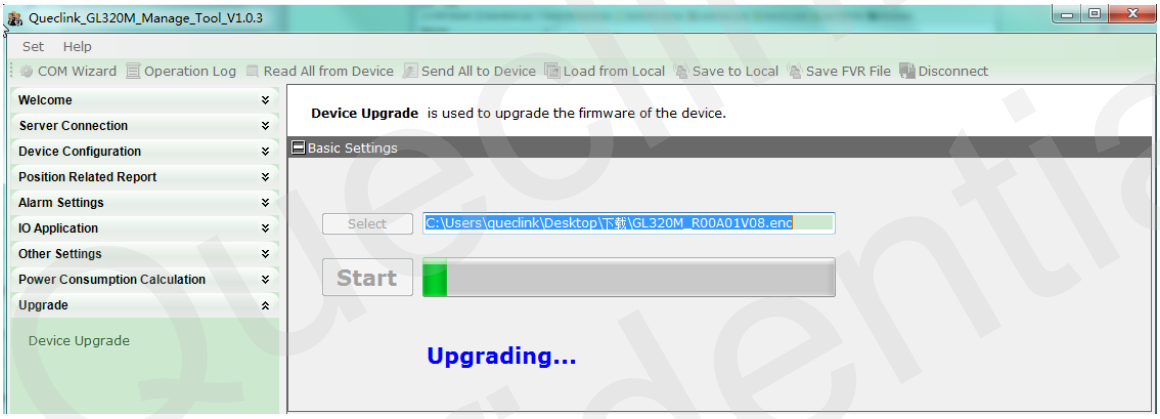
3. Device Upgrade

Following is a general procedure to upgrade GL320M firmware by Manage Tool.

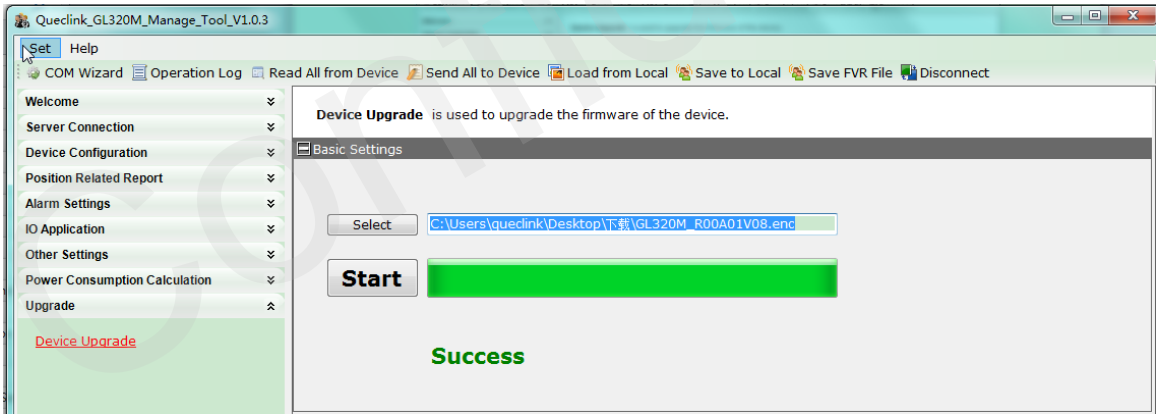


1) Click “Select”, select the file for upgrade (“.enc” file format).

2) Click “Start”, then the interface of upgrade process will show as below:



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



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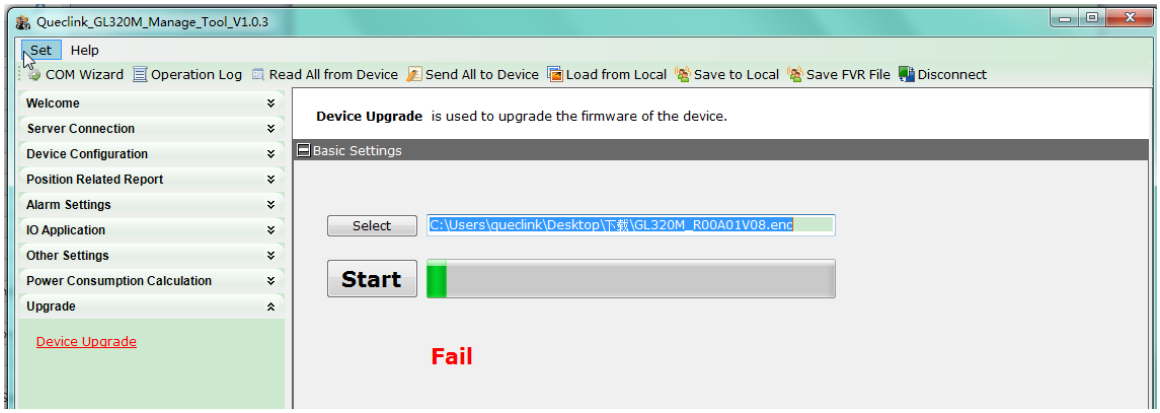
4) If upgrade failed, the interface will show as below:



If the upgrade fails, please follow the previous steps to try again.

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