GL521M 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
V1.00	2020-04-25	Frank Wang	Initial

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1. GL521M Series Manage Tool Interface

GL521M Series Manage Tool is used to configure parameters for GL521M Series through GL500MA Cable. It is easy for developers to configure GL521M 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 GL521M Series before delivery to its customers. But it is recommended for the customers to establish a backend server and to control GL521M Series via SMS or network. Please refer to "*GL521M 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 GL521M Series.
(2) Connect GL521M Series to PC with Gl500MA Cable.
(3) Run "Queclink GL521M_Manage_Tool_Vx.xx.exe".

1.1. System Requirements

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

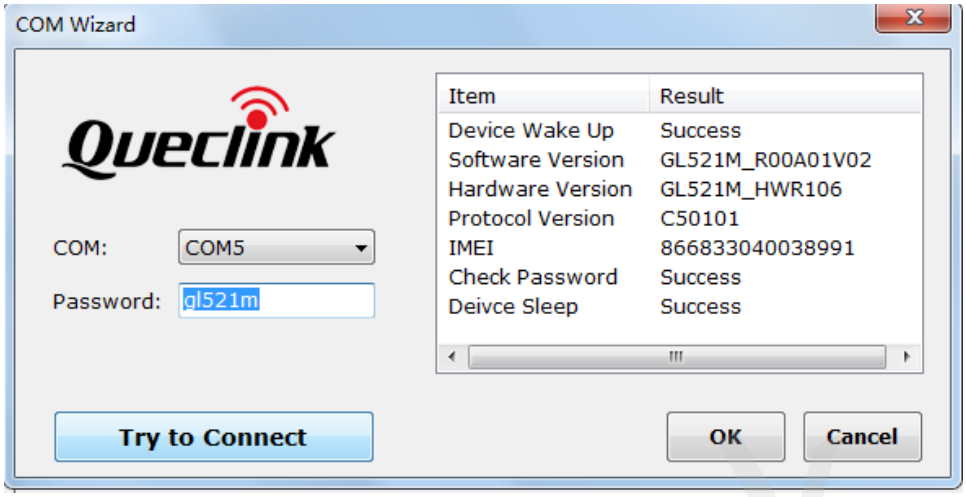
- Windows 98SE;
- Windows ME Windows 2000 SP4;
- Windows XP SP2 and above (32 & 64 bit);
- Windows Server 2003 (32 & 64 bit);
- Windows Server 2008 (32 & 64 bit);
- Windows Vista (32 & 64 bit);
- Windows 7 (32 & 64 bit);
- Windows 8 (32 & 64 bit);

Supported System Environments:

- Microsoft .NET Framework 2.0 or higher

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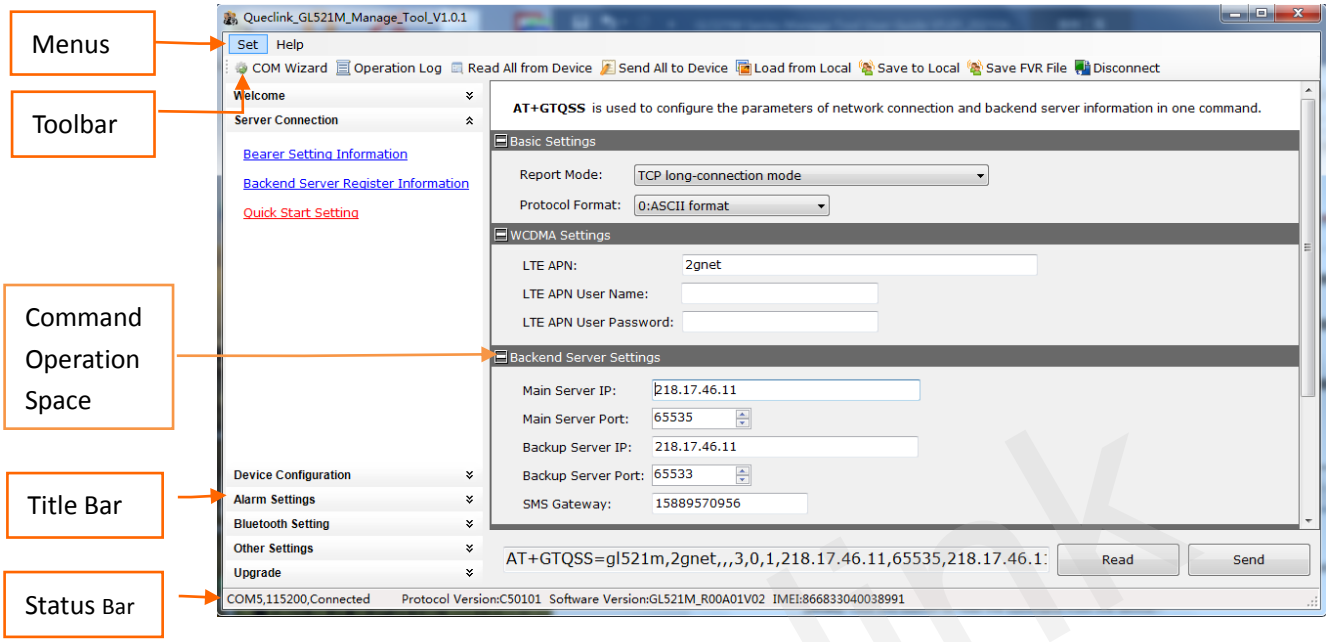
1.2. COM Settings



Select the COM port, input the password “gl521m” (“gl521m” by default), click “Try to Connect” button and then click “OK” button, the setting window will display.

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1.3. Setting Window



1.3.1. Title Bar

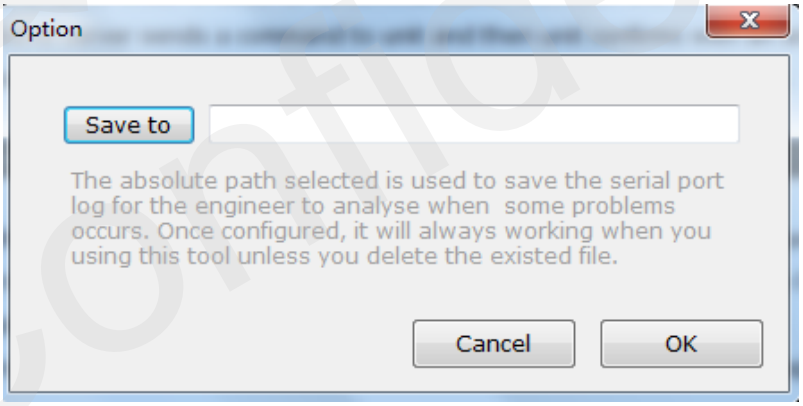
Title Bar indicates the command that is currently being operated.

1.3.2. Menus

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

1.3.2.1. Set Menu

Set menu contains “Option”.



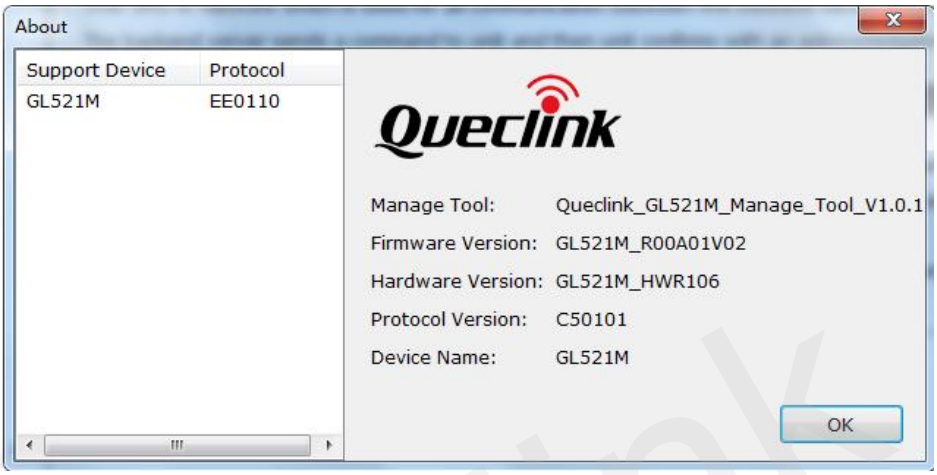
[Option]: It is used to save the serial port log for the engineer to analyze when problems occur.

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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.

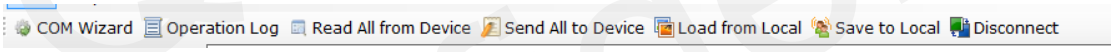
“Hardware Version” indicates the hardware version of the device.

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

“Device Name” indicates the name of the device.

1.3.3. Toolbar

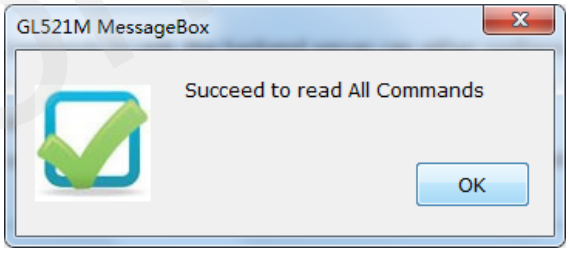
Toolbar contains “COM Wizard”, “Operation Log”, “Read All from Device”, “Send All to Device”, “Load from Local”, “Save to Local”, and “Connect/Disconnect to COM” as shown below.



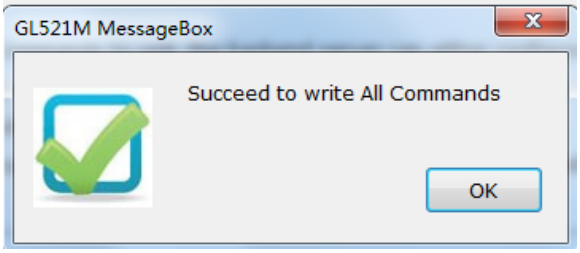
[COM Wizard]: It is used to set the COM information and password. Please refer to Chapter 1.2 for more information.

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

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

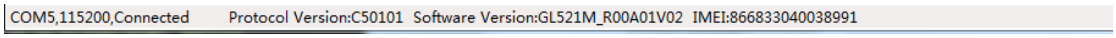


[Send All to Device]: It is used to write all commands.



[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



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

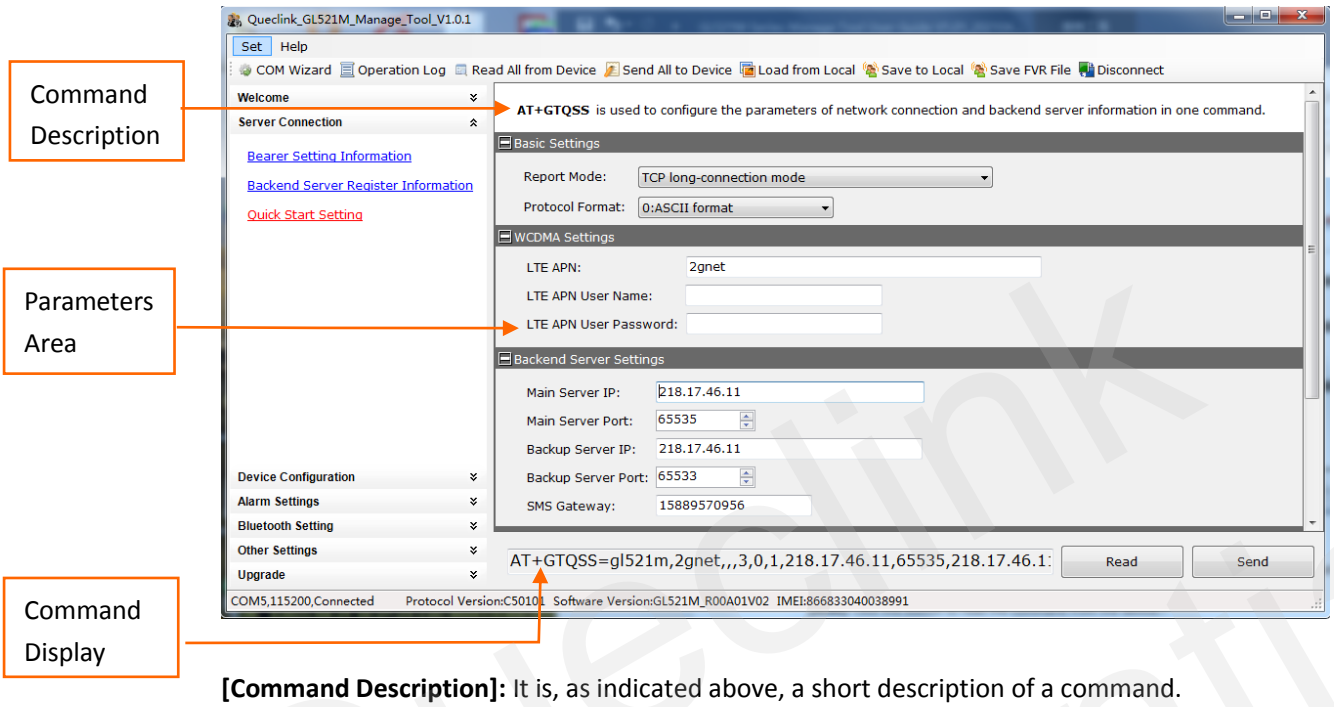
Command Browser divides all @Track protocol commands into several parts. Click Title Bar in Command Browser, parameters of current command will be shown in Command Operation Space.

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**
	Hex Report Mask	**GTHRM**
Alarm Setting	Geo-fence Configuration	**GTGEO**
	Temperature Alarm	**GTTEM**
	Light Sensor Alarm	**GTLSA**
	Light Tamper Alarm	**GTLTA**
Bluetooth Settings	Bluetooth Settings	**GTBTS**
	Bluetooth Accessory Settings	**GTBAS**
	Bluetooth Beacon ID Setting	**GTBID**
Other Settings	Real Time Operation	**GTRTO**
	White List Configuration	**GTWLT**
	Settings for SMS with Google Maps Link	**GTGLM**
	Over-the-Air Configuration Update	**GTUPC**
	Input Expansion	**GTIEX**
	Analog Input Expansion	**GTAEX**
	Configuration File Version	**GTFVR**

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Upgrade	Device upgrade	
	BLE upgrade	

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.

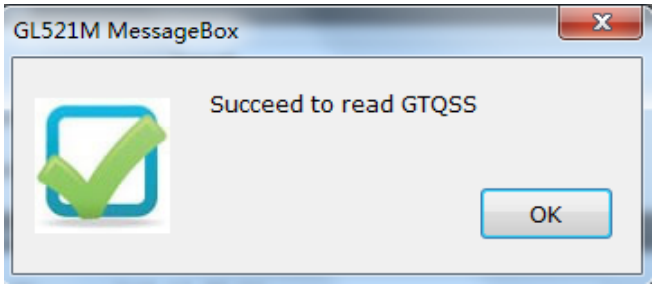
[Send]: Click this button to send the command to the device.

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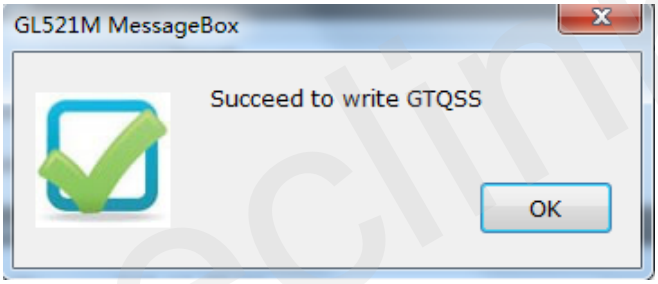
1.4. Operation Result Interfaces

1.4.1. Interfaces for Successful Operation

1.4.1.1. Command Read Successfully

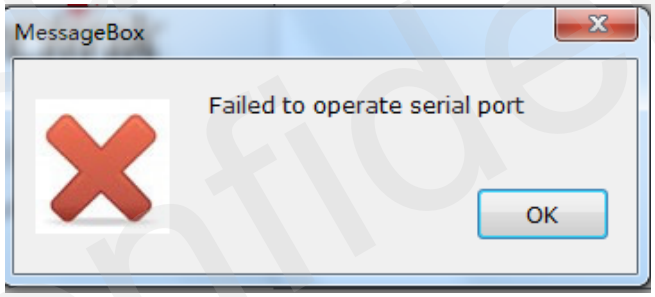


1.4.1.2. Command Sent Successfully

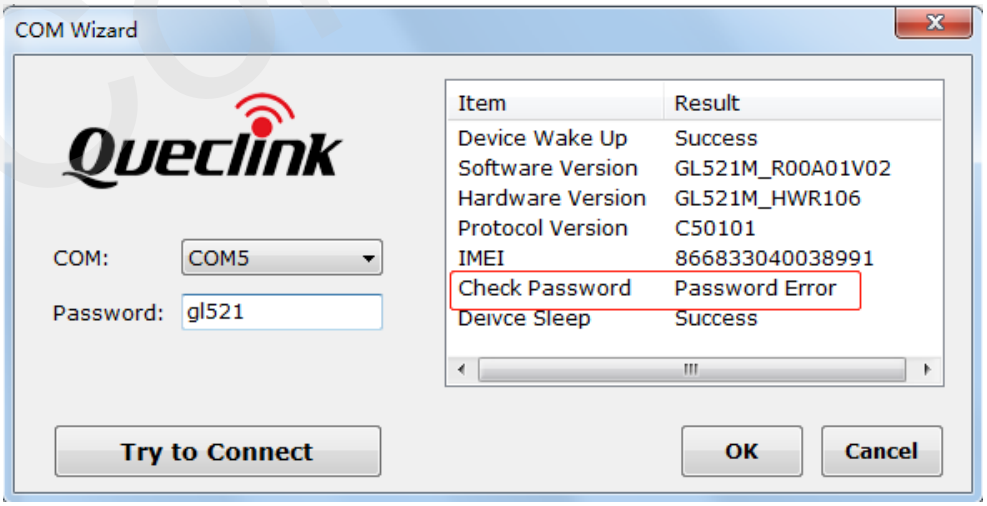


1.4.2. Interfaces for Failed Operation

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



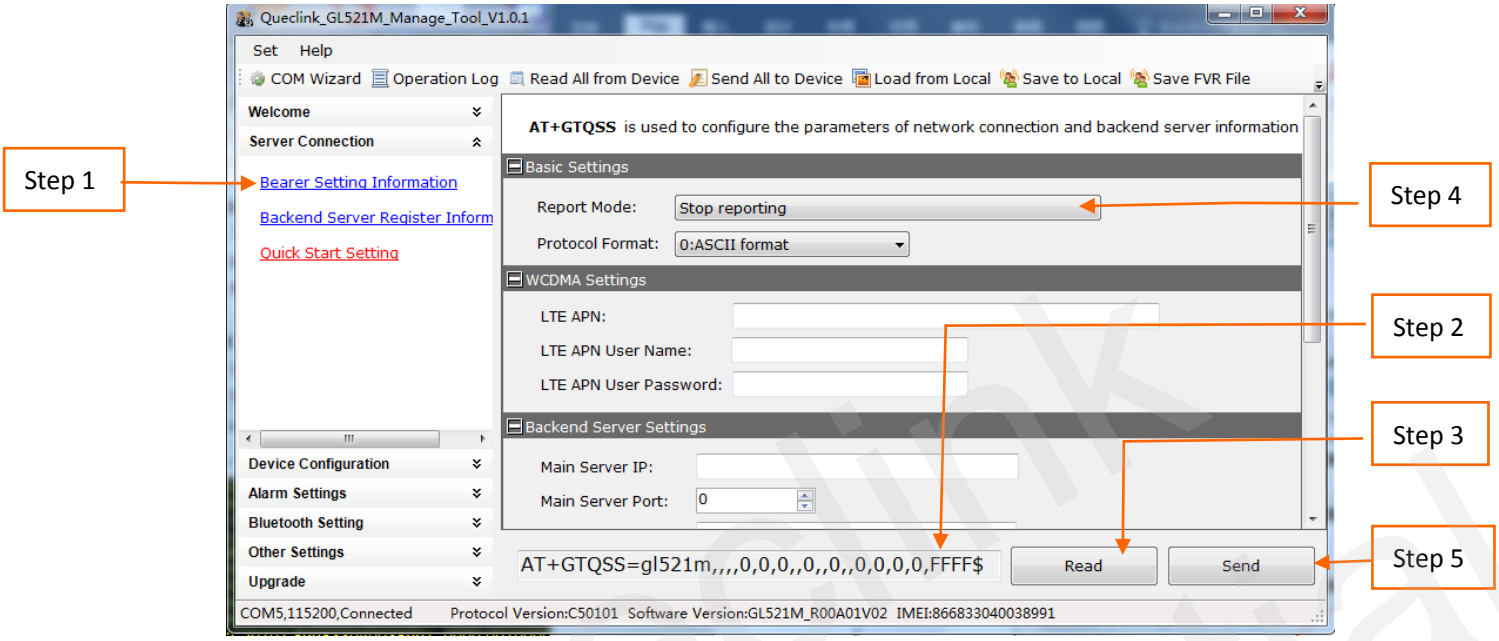
Please input the correct device password if Password Error occurs.



1.5. Device Configuration

The Manage Tool is developed based on the @Track Air Interface Protocol. Please refer to "*GL521M Series @Track Air Interface Protocol*" for details.

The following shows a general procedure to configure GL521M 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 GL521M Series via SMS or network.

Step 3: Read Command from the Device

Read the parameters from GL521M Series and modify them as needed.

Step 4: Settings Parameters

Set parameters in Command Operation Space. Please refer to "GL521M Series @Track Air Interface Protocol" for the meaning of each parameter.

Step 5: Send a Command to the Device

Click the "Send" button to download the parameters of this command to GL521M Series.

Note:

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

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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

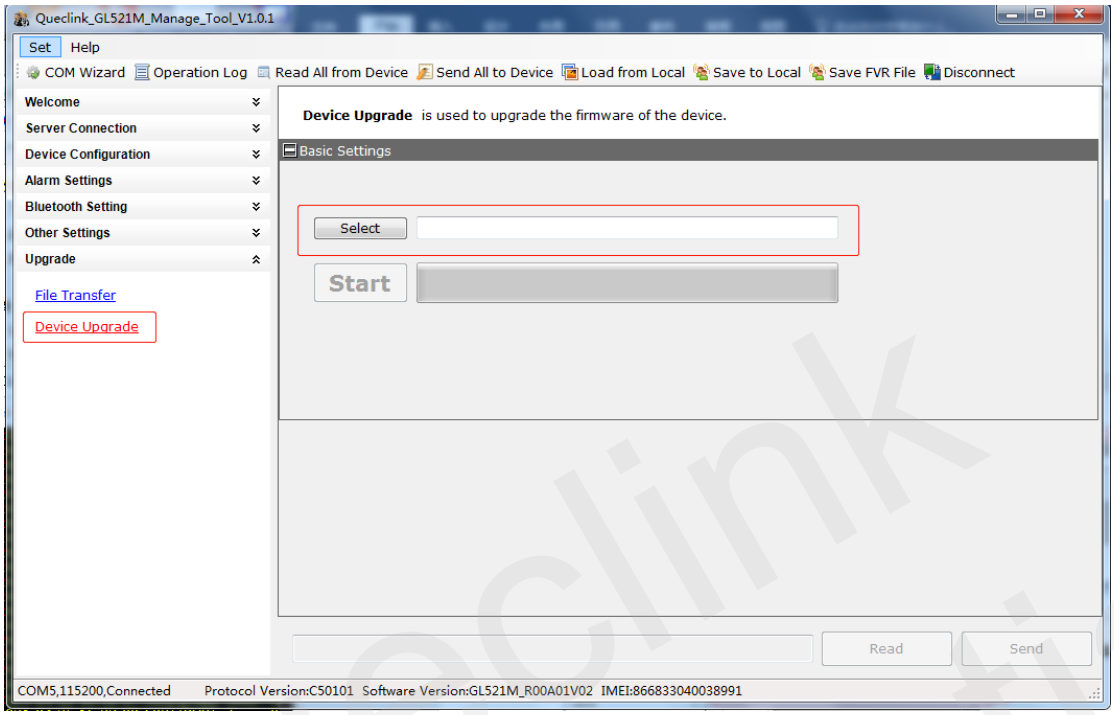
Select “Save to Local” and choose a folder, type in the name of the configuration file, and then click “Save” button



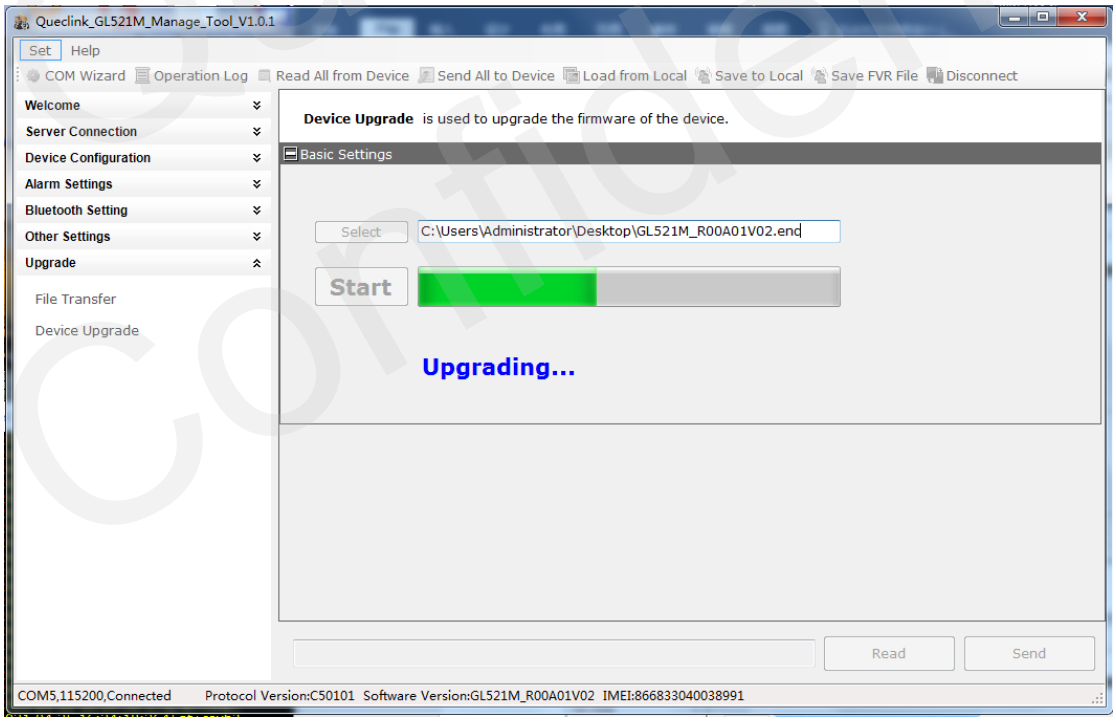
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2. Device Upgrade

Following is a general procedure to upgrade GL521M firmware by Manage Tool.

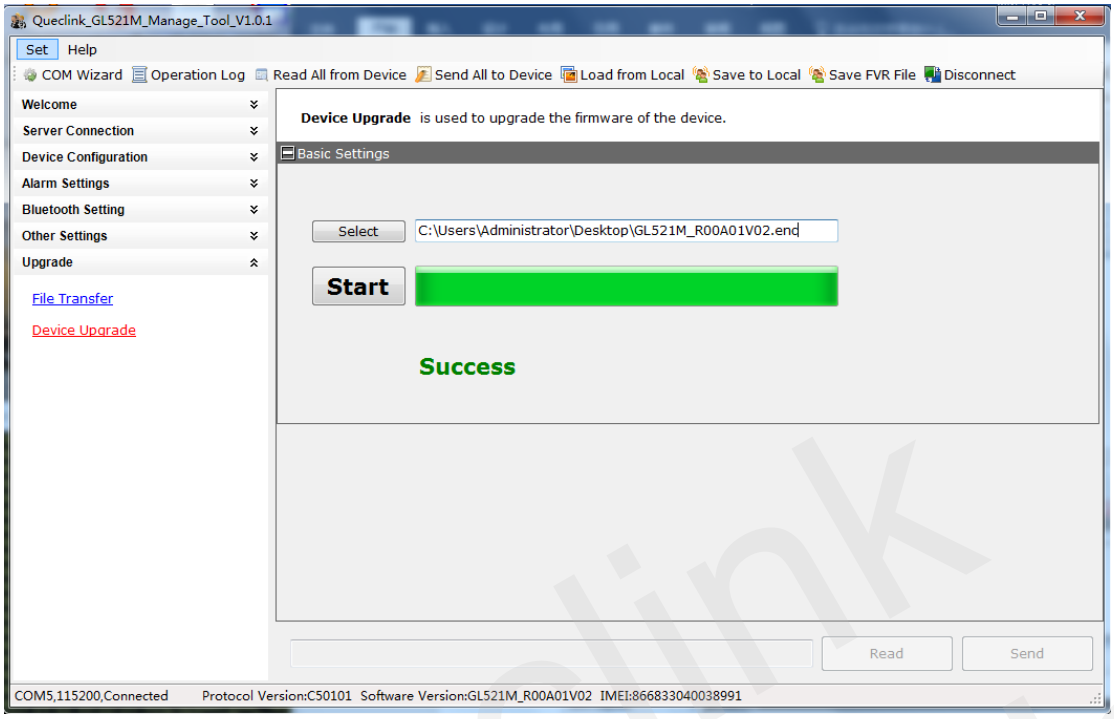


1. Select the file for upgrade (".enc" file format).
2. Click "Start", then the interface of upgrade process will show as below:



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



4. If the upgrade fails, please try again the above process or consult the support engineer.

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