Garmin Navigator User Guide

Applicable Model: T622

Change History

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Contents

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2 Product Function and Specifications

2.1 Product Function

- Provide vehicle navigation.
- Communicate between the control center and the vehicle.
- Track vehicle's location.

2.2 Specifications

Please refer to the Garmin Navigator User Guide provided by the manufacturer.

3 Main Device and Accessory

Garmin navigator

Garmin navigator data wire

4 Connecting the Garmin Navigator to the T622

Figure: T622's dedicated ports

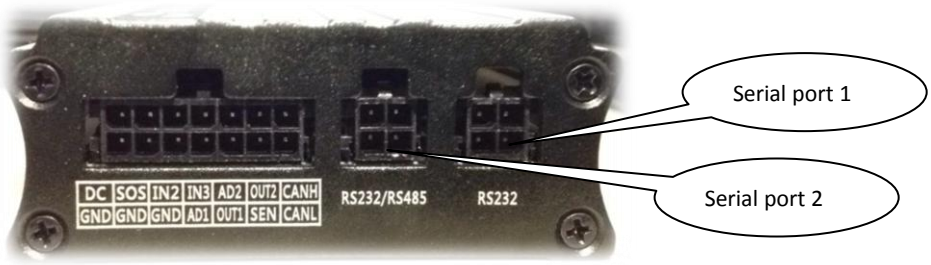


Figure: Connecting the Garmin navigator to the tracker

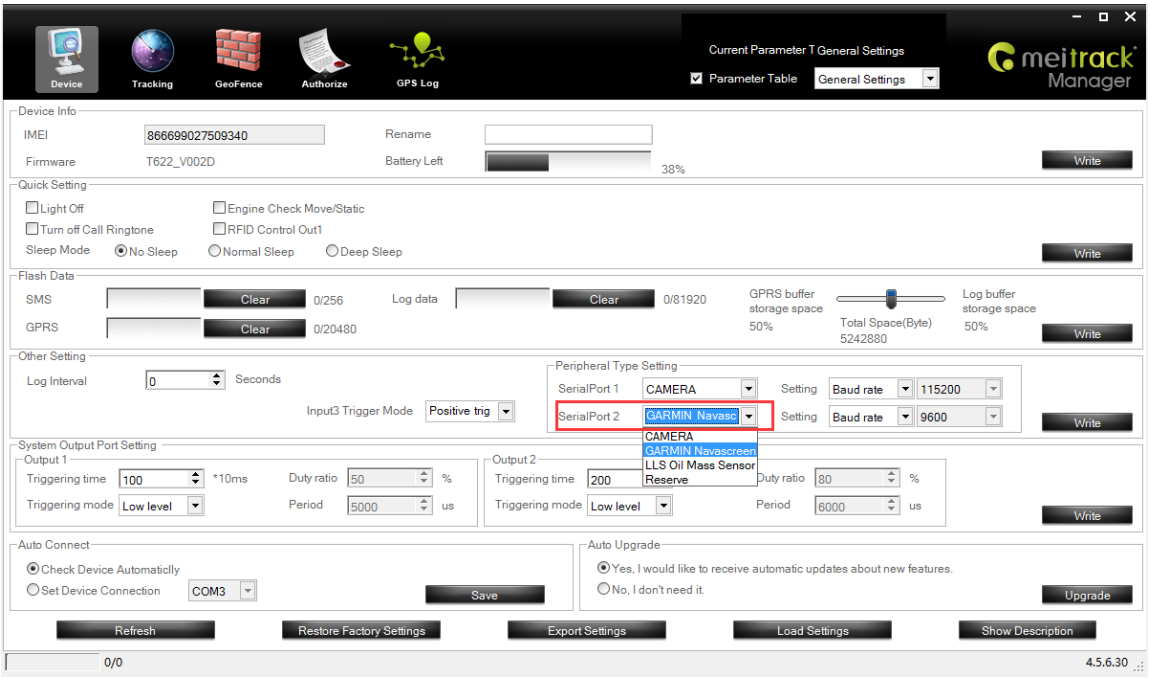
Plug the Garmin navigator data wire (RS232) into T622's dedicated port (RS232 or RS232/RS485).

5 Occupied Resource

T622: RS232 port or RS232/RS485 port

6 Configuring the T622

6.1 Setting the Serial Port by Meitrack Manager



Please select corresponding port according to the physical port. In this example, use serial port 2.

On the **Device** page, set **SerialPort 2** to **GARMIN Navascreen**.

7 GPRS Commands

7.1 Sending the Destination to the Garmin Navigator – D74

GPRS Setting	D74,X1,X2,X3,X4,X5,X6
GPRS Reply	D74,OK/*<Error code>*
Description	X1: indicates the time when a message generates; 32-bit unsigned integer; hexadecimal X2: indicates the message ID, which is unique; hexadecimal; contains up to 8 characters. If the message ID already exists, the command fails to be sent. X3: indicates the latitude; 32-bit signed; hexadecimal; accurate to 6 decimal places. X4: indicates the longitude; 32-bit signed; hexadecimal; accurate to 6 decimal places. X5: indicates the destination; Unicode hexadecimal character string; contains up to 398 characters (199 bytes). X6: indicates the serial port number of the Garmin navigator. X6 = 1: serial port 1; X6 = 2: serial port 2.
Applicable Model	T622
Example	
GPRS Sending	@@O73,866699027509340,D74,302480F5,00000000,015787A6,06CC5FBB,F5456B00,02*11\r\n

GPRS Reply	$$O28,866699027509340,D74,2*15\r\n

7.2 Sending Messages from the Garmin Navigator – D75

GPRS Setting	D75,X1,X2,X3,X4,X5,X6,X7,X8
GPRS Reply	D75,OK/<*Error code*>
Description	X1: indicates the time when a message generates; 32-bit unsigned integer; X2: indicates the latitude; 32-bit signed; hexadecimal; accurate to 6 decimal places. X3: indicates the longitude; 32-bit signed; hexadecimal; accurate to 6 decimal places. X4: indicates the message ID sent from the platform to the Garmin navigator. X5: indicates the message length; contains 1 byte; hexadecimal. X6: indicates the message ID sent from the Garmin navigator to the platform; hexadecimal; contains up to 16 characters. X7: indicates the message to be sent; Unicode hexadecimal character string; contains up to 398 characters (199 bytes). X8: indicates the serial port number of the Garmin navigator. X8 = 1: serial port 1; X8 = 2: serial port 2.
Applicable Model	T622
Example	
GPRS Sending	$$I105,866699027509340,D75,302480F5,015787A6,06CC5FBB,03335C8B,08,000000AD,00420068006700680067006800674,02*FF\r\n
GPRS Reply	@@I28,866699027509340,D75,OK*68\r\n

7.3 Sending Messages to the Garmin Navigator – D76

GPRS Setting	D76,X1,X2,X3,X4,X5
GPRS Reply	D76,OK/<*Error code*>
Description	X1: indicates the time when a message generates; 32-bit unsigned integer; X2: indicates the message length; hexadecimal X3: indicates the message ID; hexadecimal; contains up to 16 characters. If the message ID already exists, the command fails to be sent. X4: indicates the message to be sent; Unicode hexadecimal character string; contains up to 398 characters (199 bytes). X5: indicates the serial port number of the Garmin navigator. X5 = 1: serial port 1; X5 = 2: serial port 2.
Applicable Model	T622
Example	
GPRS Sending	@@n85,866699027509340,D76,30245BED,8,0191E7B6,00460053004400460053004600400530046,2*B6\r\n
GPRS Reply	$$n28,866699027509340,D76,OK*33\r\n

7.4 Obtaining Garmin Navigator Info – D77

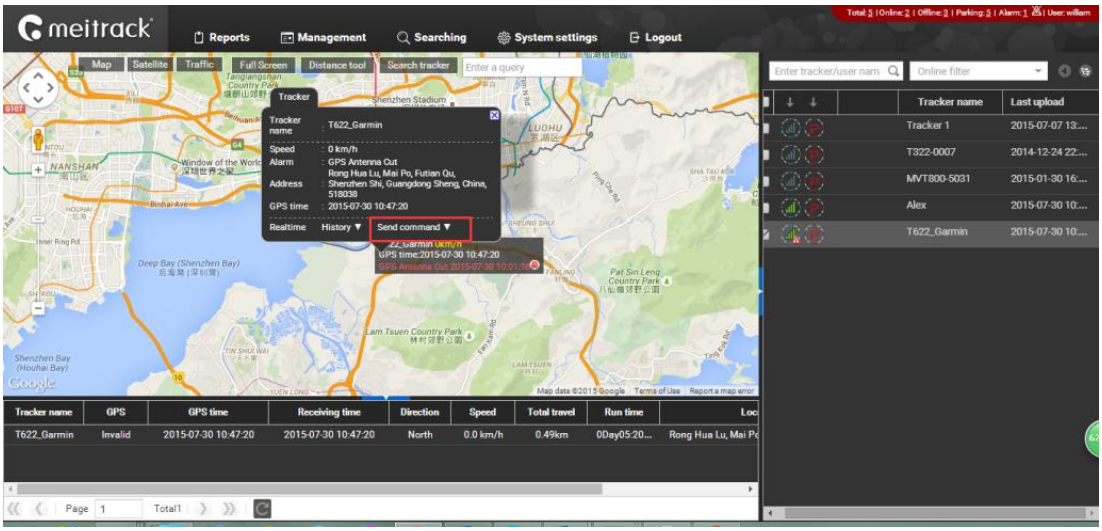
GPRS Setting	D77,Y1
GPRS Reply	D77,X1,X2,X3,X4,X5,X6
Description	X1: indicate the estimate time of arrival; 32-bit unsigned integer; X2: indicates the message ID; hexadecimal; contains up to 8 characters. X3: indicates the remaining mileage; hexadecimal; contains up to 8 characters; unit: meter. X4: indicates the latitude where the Garmin navigator is located; 32-bit signed; hexadecimal; accurate to 6 decimal places. X5: indicates the longitude where the Garmin navigator is located; 32-bit signed; hexadecimal; accurate to 6 decimal places. X6: indicates the serial port number of the Garmin navigator. X6 = 1: serial port 1; X6 = 2: serial port 2. Y1: indicates the serial port number of the Garmin navigator. Y1 = 1: serial port 1; Y1 = 2: serial port 2. Note: This command is available only when the Garmin navigator is working.
Applicable Model	T622
Example	
GPRS Sending	@@O28,866699027509340,D77,2*15\r\n
GPRS Reply	$$O73,866699027509340,D77,FFFFFFFF,00000000,FFFFFFFF,F5456B00,F5456B00,02*11\r\n

8 MS03 Platform Functions

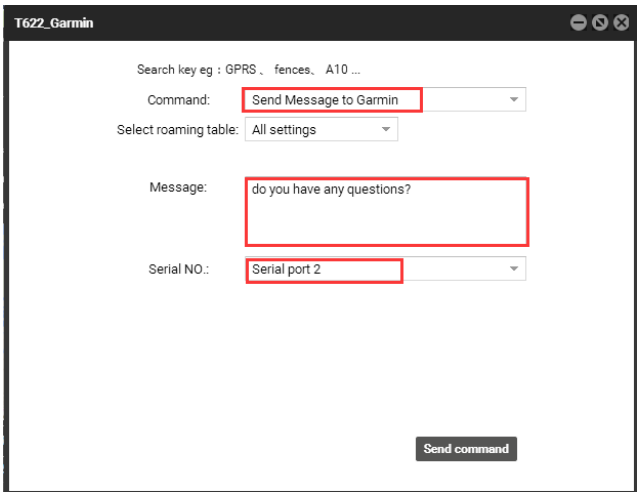
8.1 Sending Messages to the Garmin Navigator

Before using the function, make sure the Garmin navigator is connected to external power supply and the tracker is online.

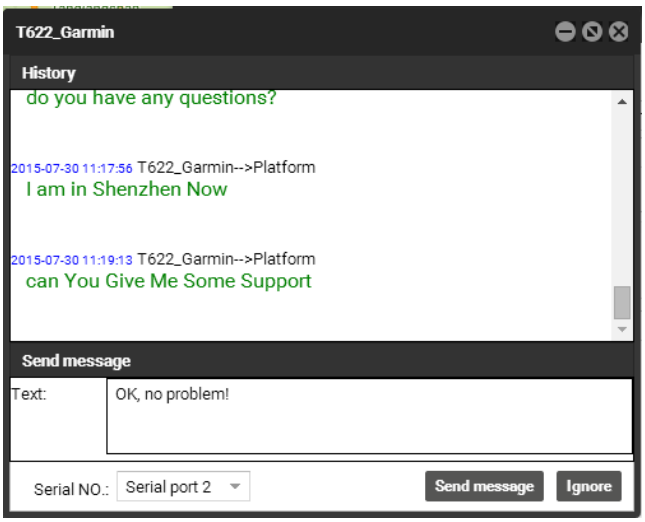
1. Visit http://ms03.trackingmate.com, enter the user name and password, and log in to the MS03. (Purchase the login account from your provider.) Make sure the device IP address has been set to **67.203.15.7** and port to **10003**.
2. Select the tracker, and choose **Send command**.



3. From the pop-up information box, select **Send Message to Garmin** from **Command**, set **Message** and **Serial NO.**, and click **Send command**.

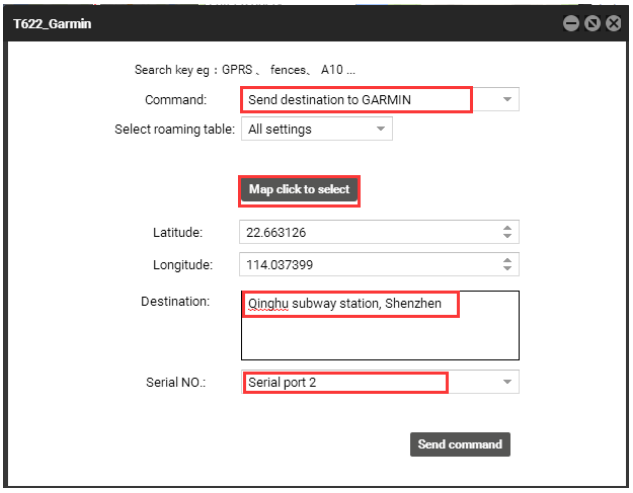


4. The platform will communicate with the Garmin navigator.

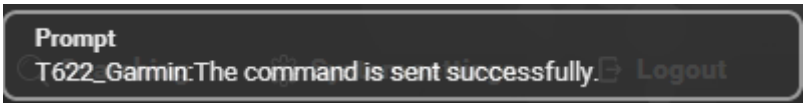


8.2 Sending the Destination to the Garmin Navigator

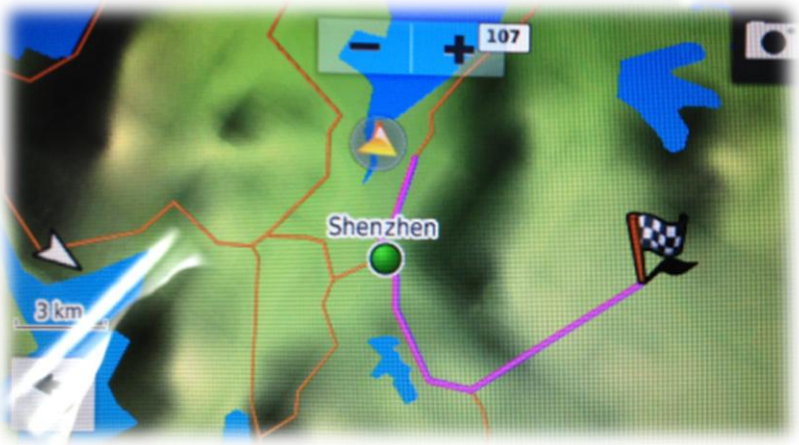
1. On the following window, select **Send destination to GARMIN** from **Command**, click **Map click to select** to set the position, enter the detailed position on **Destination**, set **Serial NO.**, and click **Send command**.



2. The following prompt will be displayed if the command is sent successfully.

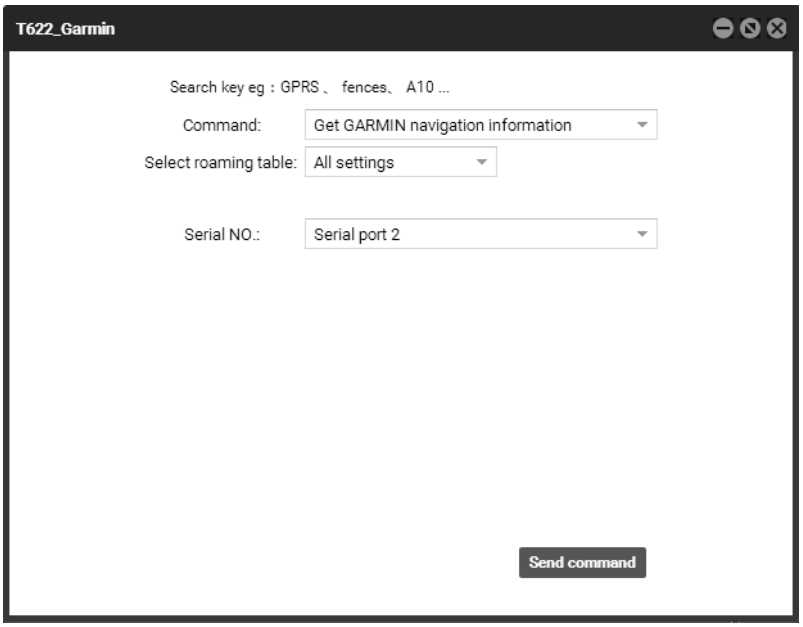


On the Garmin navigator, you will see the route planning.

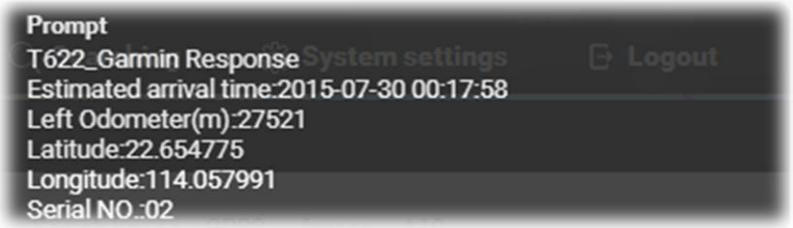


8.3 Obtaining Garmin Navigator Info

1. On the following window, select **Get GARMIN navigation information** from **Command**, set **Serial NO.**, and click **Send command**.



2. The following prompt will be displayed.



Note: This function is available only when the Garmin navigator is working.

If you have any questions, do not hesitate to email us at info@meitrack.com.