

# **Garmin Navigator User Guide**



## Applicable Model: T622

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## **Change History**

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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

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Į IĮ				71.75				Current Para	imeter T G	eneral Settir	igs	n <b>כ</b>	neit <b>rac</b> k'
Device	Tracking	GeoFence	Authorize	GPS Log			8	Parameter T	able	General Settir	ngs 🔻		Manager
Device Info-													
IMEI	8666990	27509340		Rename									
Firmware	T622_V0	02D		Battery Left			38%						Write
Quick Setting													
Light Off		Engine Che	eck Move/Static										
Turn off C	all Ringtone	RFID Contr	ol Out1										
Sleep Mode	No Sleep	ONormal Slee	p ODeep	Sleep									Write
-Flash Data-													
SMS		Clear	0/256	Log data		Clear	0/81920	GPR	S buffer	$ \longrightarrow $		Log buffer storage space	
GPRS		Clear	0/20480					50%	.gp	Total Spa 5242880	ce(Byte)	50%	Write
Other Setting						-Perinheral Type	Setting						
Log Interval	0	Seconds				SerialPort 1	CAMERA	-	Setting	Baud rate	▼ 11520	0 -	
			Input3 Trigge	er Mode Positi	ve trig 👻	SerialPort 2	GARMIN Na	avasc 🔻	Setting	Baud rate	▼ 9600	-	Write
System Outpu	It Port Setting						CAMERA						
Output 1		-			Output 2		LLS Oil Mas	is Sensor			-		
Triggering ti	me 100	*10ms	Duty ratio 50	<del>\$</del> %	Triggerin	g time 200	Reserve	Dut	ty ratio	0	₽ %		
Triggering m	node Low level	•	Period 500	0 🌲 us	Triggerin	g mode Low level	•	Per	iod 6	000	US US		Write
-Auto Connect						Auto Upgr	ade						
Check De	evice AutomaticIly					€Yes,	would like to	receive auto	matic upd	lates about n	ew features.		
O Set Devic	e Connection	COM3 💌			Save	O No, I	don't need it.						Upgrade
-	Refresh		Restore Facto	ry Settings		Export Settings			Load Set	tings		Show Des	cription
[	0/0												4.5.6.30

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 th	e Garmin Navigator – D74
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GPRS Setting	D74,X1,X2,X3,X4,X5,X6
GPRS Reply	D74,OK/ <error code=""></error>
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	@@073,866699027509340,D74,302480F5,00000000,015787A6,06CC5FBB,F5456B00,02*
	11\r\n

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**GPRS** Reply

\$\$028,866699027509340,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=""></error>
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	\$\$1105,866699027509340,D75,302480F5,015787A6,06CC5FBB,03335C8B,08,000000AD,
	0042006800670068006700680074,02*FF\r\n
GPRS Reply	@@l28,866699027509340,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=""></error>
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,8,0191E7B6,0046005300440046005300460
	04400530046,2*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	\$\$073,866699027509340,D77,FFFFFFF,00000000,FFFFFFFF,F5456B00,F5456B00,02*1
	1\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**.



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Megnorts Management Q Searching System settings P Logout Inter tracker / searching Online filter Inter tracker / searching Online Inter tracker / searching Inter tracker / searc	() (5 d / 13 122 116
Map     Satellite     Traffic     Full Science     Defance tool     Sciench tracker     Enter a quoy     Inter tracker/user nam     Online filter       Image: Statellite     Traffic     Full Science     Defance tool     Sciench tracker     Filter a quoy     Image: Science tracker a quoy     Im	0 € 1 713 122 116
All ULUST Tracker Definition   Find Tracker 1622, Garmin   Find Topolar   Find Speed   O Km/h   Speed 0 Km/h   Complex Complex   Complex Complex <th>d / 13   22   16</th>	d / 13   22   16
Tracker     Trázker     Tázz, Garmin     Tázz, Garmin     Trácker 1     2015/07-0       MANSKAN     Window of the tag, Kain     Gr S Anterna Cut; Gr S Anterna Cut; Stretchen Sh, Gaangkong Steng, China, Stretchen Sh, Gaangkong Steng, China, Stretchen Sh, Gaangkong Steng, China,     Million     Million     Tracker 1     2015/07-0       MANSKAN     Window of the tag, Zan     Gr S Anterna Cut; Stretchen Sh, Gaangkong Steng, China, Stretchen Sh, Gaangkong Steng, China,     Million     Million     Million     Million     2015/07-0     2016/07-0	7 13: 1 22: 1 16:
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Address Show Show Show Show Show Show Show Show	0 16:
Grs time 2015/07/30 10/7/20 Allox 2015/07/30 Allox 2015/07/30	10:
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Oreg Bay (Shunchen Bay) UP Shance 200 (0.9.4-20)   Shunchen Bay (Council) The shance 200 (0.9.4-20)   Shunchen Bay (Council) The shance 200 (0.9.4-20)   Council The shance 200 (0.9.4-20)   Shunchen Bay (Council) The shance 200 (0.9.4-20)   The shance 200 (0.9.4-20) The shance 200 (0.9.4-20)   Shunchen Bay (Council) The shance 200 (0.9.4-20)   The shance 200 (0.9.4-20) The shance 200 (0.9.4-20)	
Tracker name GPS GPS time Receiving time Direction Speed Total timed Run time Loc	
1022_08/mm ##amu 2013/013/010/47.20 2013/010/47.20 Notifi 0.0 Xm/m 0.049Xm 0.008/0320	
	•

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

T622_Garmin			• • •
Search key eg : GP	RS tences A10		
Command:	Send Message to Garmin	•	
Select roaming table:	All settings 👻		
Message:	do you have any questions?		
Serial NO.:	Serial port 2	*	
		Send command	

4. The platform will communicate with the Garmin navigator.

T622_Garmi	n	••
History do you ha	ave any questions?	^
2015-07-30 11:1 I am in S	7:56 T622_Garmin>Platform henzhen Now	
2015-07-30 11:1 can You	9:13 T622_Garmin>Platform Give Me Some Support	
Send mess	age	
Text:	OK, no problem!	
Serial NO.	Serial port 2 💌	Ignore

#### 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**.

T622_Garmin		<b>0</b> 00
Search key eg : GPI	RS fences A10	
Command:	Send destination to GARMIN	v
Select roaming table:	All settings 🔍	
	Map click to select	
Latitude:	22.663126	* *
Longitude:	114.037399	\$
Destination:	Qinghu subway station, Shenzhen	
Serial NO.:	Serial port 2	~
	Send con	mand

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.



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T622_Garmin		• • •
Search key eg : GPRS 、 fences、 A10		
Command:	Get GARMIN navigation information	
Select roaming table:	All settings 🔹	
Serial NO.:	Serial port 2 👻	
	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.