

Applicable Model: T322X



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1 Overview

This guide is used for users to upgrade Meitrack GPS trackers. It is applicable to T322X trackers.

2 Hardware and Software Requirements

- Desktop or laptop whose system is Windows XP, Windows Vista, or Windows 7
- A USB cable



- USB232 driver
- T322X firmware upgrade application

Note: Please obtain all upgrade-related files from our CD.

3 Installing the USB232 Driver

Run PL2303_Prolific_DriverInstaller to install the USB232 driver.

Note: PL2303_Prolific_DriverInstaller can be found in the USB232 Driver folder of the CD.



Connect the device to the computer by using the USB cable.



Open Device Manager (My Computer > Manager > Computer Manager > Device Manager), and click Ports (COM & LPT). If "Prolific USB-to-Serial Comm Port (COM4)" is displayed, the driver is installed successfully.



🔹 De	vice Manager
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	PC-201306131805
Ŧ	Batteries
Ŧ	🚯 Bluetooth USB
Ŧ	- 😼 Computer
+	🝚 Disk drives
+	📲 Display adapters
+	UVD/CD-ROM drives
+	IDE ATA/ATAPI controllers
+	🎯 Imaging devices
+	🦢 Keyboards
+	Mice and other pointing devices
+	Nodems
+	-😼 Monitors
Ŧ	🕎 Network adapters
Ŧ	🖓 Other devices
Ð	y Ports (COM & LPT)
-	🦳 🍠 Prolific USB-to-Serial Comm Port (COM4)
Ŧ	Recessors
+	🧐 Sound, video and game controllers
+	📲 System devices
÷	😋 Universal Serial Bus controllers

Note: Remember the COM port number in the bracket. One needs to select this port when using the firmware upgrade software later. It is COM4 in this example and it may be other ports in actual use.

4 Upgrading the Firmware

Before the upgrade, ensure that:

- The device is removed from the vehicle.
- The device is powered off.

Perform the following operations to upgrade the firmware:

1. Connect the end of the USB cable to the computer. Leave the other end aside.



- 2. Open the T322X Download Tool folder, and double-click MultiPortFlashDownloadProject.exe.
- 3. On the page that is displayed, choose File > Open Download Agent File.



4. In the dialog box that is displayed, select the **MTK_AllInOne_DA.bin** file, and click **Open**. The file will be uploaded to the upgrade tool.



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COM15 Auto polling 15	我的文档						
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COM20 Auto polling 20	网上邻居						peration
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🕸 Multi-port download tool (Service center)	
<u>File</u> Factory <u>Database</u> <u>Options</u> Debug <u>Logging</u> <u>H</u> elp	
DA file name F:\T322 Download Tool\MTK_AllInOne_DA.bin	
Authentication file	
RootCert file	
Certificate File	
Scatter/Confin Files Folder Path	1

5. Import the firmware application folder.

On the **Multi-port download tool (Service center)** page, click **Image Folder**, select the firmware application folder, and click **OK**. The firmware application is imported to the upgrade tool successfully if the **Load Files Success** dialog box is displayed.



🗱 Multi-port download to	ol (Service center)	
<u>F</u> ile Factory <u>D</u> atabase <u>O</u> ptions	Debug Logging Help	
DA file name F:\T322 Download	Tool\MTK_AllInOne_DA.bin	
Authentication file		
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Scatter/Config Files Folder Path	Select Image Folder:	
Image Folder	T322_CV212_20131012	
Sel All Sel All Sel All Sel All COM15 Auto polling 15 COM16 Auto polling 16 COM17 Auto polling 17 COM18 Auto polling 18 COM19 Auto polling 19 COM20 Auto polling 20 COM21 Auto polling 21	■ ◆本地磁盘 (C:) ■ ◆ 应用程序 (D:) ■ ◆ 其他 (E:) ■ ◆ 资料 (F:) ■ ● Documents and Settings ■ ● Firmware ■ ● T322 Download Tool T322 Firmware ■ ■ T322 CV212_20131012	
COM22 Auto polling 22	确定取消	

Scatter/Config Files F	Folder Path
Image Folder	
	Load Files Success
COM17 Auto p	F:\1322 Firmware\1322_UV212_20131012\scat1322_UV212_20131012.txt
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Authentication fil	e
RootCert file	
Certificate File	
_Scatter/Config	Files Folder Path
Image Folder	F:\T322 Firmware\T322_CV212_20131012
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Select the COM port, and set parameters shown in the following figure.
 COM port: UART; Baud rate: 921600; Operation: Download ROM.

Note 1: The larger the baud rate is, the faster the upgrade will be. The maximum value of the baud rate is 921600. (If the upgrade fails, reduce the baud rate or set the value to **9600**.)

💵 Multi-port download tool (Ser	vice center)		
<u>F</u> ile Factory <u>D</u> atabase <u>O</u> ptions Debug <u>L</u> o:	gging <u>H</u> elp		
DA file name F:\T322 Download Tool\MTK_A	AllInOne_DA.bin		
Authentication file			
RootCert file			
Certificate File			
Scatter/Config Files Folder Path			
Image Folder F:\T322 Firmware\T322_CV212	20131012		Reload
			COM Port
			• UART
COM15 Auto polling 15	0%	0 sec Start Stop	CUSB
COM16 Auto polling 16	0%	Osec Start Stop	C UART + USB
COM17 Auto polling 17	0%	0 sec Start Stop	P
COM18 Auto polling 18	0%	0 sec Start Stop	Baud rate 321600
COM19 Auto polling 19	0%	0 sec Start Stop	Download/Format
COM20 Auto polling 20	0%	0 sec Start Stop	Operation
COM21 Auto polling 21	0%	0 sec Start Stop	Download ROM
COM22 Auto polling 22	0%	0 sec Start Stop	

Note 2: If the occupied COM port cannot be founded in the COM port list on the left (e.g., COM port 7 cannot be found in the list), you can perform the following operations to redefine the COM port list.

Choose **Options** > **Set begin COM port**, set **Begin COM Port** to **1**, and then click **Apply**. The COM port list will be redefined starting from COM1. (Now you can see COM7 is in the COM port list.)



🗱 Hulti-port downl	load tool (Service center)	
<u>F</u> ile Factory <u>D</u> atabase	Options Debug Logging Help	
DA file name F:\T322	External clock	
Authentication file	Baseband chip options	
	Backup and restore calibration data options 🔹 🕨	<u> </u>
RootCert file	<u>S</u> et begin COM port	
Certificate File	USB Download W/O Battery	
	USB <u>D</u> ownload/Format (Data Card)	
Scatter/Config Files Folder	USB D <u>o</u> wnload/Readback(Dual Talk)	
Image Folder F:\T322 F	Enable MMAA (Multi-Load with Multi-Memory)	
	Send <u>R</u> ootCert Forcely	-
🔲 Sel All 🔲 Sel All	USB <u>M</u> eta Mode After One Station Download	
COM15 Auto polling 1	Enable USB 1.1 to 2.0	Stop
	Backup Nvram Partition	
CUM161 Auto polling I		Stop
COM17 Auto polling 1	Ln <u>t</u> er Meta Mode after DL/FMI	Stop
COM18 Auto polling 1	Sett <u>i</u> ngs F7	Stop
COM19 Auto polling 1	Nor/S <u>F</u> Flash Safe Mode	Stop





7. Upgrade the firmware.

(1) Select the occupied COM port (e.g., COM7), and click Start.



💵 Iulti-port download tool	(Service center)		
<u>F</u> ile Factory Database Options Del	ug Logging Help		
DA file name F:\T322 Download Tool	MTK_AllInOne_DA.bin		
Authentication file			
RootCert file			
Certificate File			1
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iniage i older			110000
			COM Port
	0%	0 eec Start Stop	CLISE
	0%	0 sec Start Stop	C UART + USB
	0%	0 sec Start Stop	
	0%	0 sec Start Stop	Baud rate 921600 💌
	0%	0 sec Start Stop	Download/Earmat
COM6 Auto polling 6	0%	0 sec Start Stop	Operation
COM7 F Auto polling 7 🔴 S	TART 0%	3 sec Start Stop	Developed POM
COM8 C Auto polling 8	0%	Osec Start Stop	
COM9 C Auto polling 9	0%	0 sec Start Stop	
COM10 Auto polling 10	0%	0 sec Start Stop	
COM11 Auto polling 11	0%	0 sec Start Stop	
COM12 Auto polling 12	0%	0 sec Start Stop	
COM13 Auto polling 13	0%	0 sec Start Stop	
COM14 Auto polling 14	0%	0 sec Start Stop	
COM15 Auto polling 15	0%	0 sec Start Stop	-
COM16 Auto polling 16	0%	O sec Start Stop	Start All Stop All

(2) Connect the other end of USB cable to the device. The device will automatically start upgrading. (During the upgrade, all indicators are off.)



(3) The color of the progress bar starts to change from red to yellow then to blue, indicating that the upgrading is going on. (It will take several minutes to complete the upgrade.)

🔽 COM4 🖂 Auto polling 4 🔵		0%	Usec	Start Stop	
🕞 COM5 🦳 Auto polling 5 🔵		0%] O sec	Start Stop	
🖵 COM6 🦳 Auto polling 6 🔵		0%	0 sec	Start Stop	
🔽 COM7 🗖 Auto polling 7 🔴	DA	29%] 4 sec	Start Stop	
🖵 COM8 🧮 Auto polling 8 🔵		0%] O sec	Start Stop	
🕞 COM9 🦳 Auto polling 9 🔵		0%] 0 sec	Start Stop	
COM10 Auto polling 10		0%	0 sec	Start Stop	

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🔲 COM3 🗌 Auto polling 3 🔵		0%	0 sec	Start	Stop
Г СОМ4 Г Auto polling 4 🔵		0%	0 sec	Start	Stop
🦵 COM5 🥅 Auto polling 5 🔵		0%	0 sec	Start	Stop
🖵 COM6 🧮 Auto polling 6 🔵		0%	0 sec	Start	Stop
🔽 COM7 🗖 Auto polling 7 🧿	Format	32%	23 sec	Start	Stop
🦵 COM8 🥅 Auto polling 8 🔵	/	0%	0 sec	Start	Stop
🖵 COM9 厂 Auto polling 9 🔵		0%	0 sec	Start	Stop
COM10 Auto polling 10		0%	0 sec	Start	Stop
🔽 COM4 🔽 Auto polling 4 🔵	<u></u>	0%	0 sec	Start	Stop
🔽 COM5 🗖 Auto polling 5 🔵		0%	0 sec	Start	Stop
🖵 COM6 🥅 Auto polling 6 🔵		0%	0 sec	Start	Stop
🔽 COM7 🗖 Auto polling 7 🔵	DL	33%	76 sec	Start	Stop
🔽 COM8 🔲 Auto polling 8 🔵		0%	0 sec	Start	Stop
🖵 COM9 🥅 Auto polling 9 🔵		0%	0 sec	Start	Stop
COM10 Auto polling 10		0%	0 sec	Start	Stop

(4) If "DL OK" is displayed and the blue progress bar is 100%, the upgrade is complete.

CUM3 Auto polling 3		U%	0.860	Start	Stop
🖵 COM4 🧮 Auto polling 4 🔴		0%	0 sec	Start	Stop
COM5 🗖 Auto polling 5 🔵		0%	Osec	Start	Stop
🖵 COM6 🥅 Auto polling 6 🔴		0%	Osec	Start	Stop
🔽 COM7 🔲 Auto polling 7 🔴	DL OK	100%	130 sec	Start	Stop
🖵 COM8 🥅 Auto polling 8 🔵		0%	Usec	Start	Stop
🖵 COM9 🥅 Auto polling 9 🔴		0%	0 sec	Start	Stop
		0%	D sec	Start	Stop

5 Restarting the Device

The device is stopped when the upgrade finishes. Use any of the following ways to restart the device:

- 1. Disable the upgrade tool, remove the USB cable from the device, and then plug the USB cable in the device. (Note: The other end of the USB cable is connected to the computer.) The device will restart automatically.
- 2. Disconnect the USB cable, and press the power button for 2–3 seconds. Then the device will restart.

Note: During the upgrade, ensure that the USB cable is connected to the device properly. Otherwise, the upgrade may fail. If you have any questions, do not hesitate to email us at info@meitrack.com.