

TZ-TRACKER02&TRACKER03&TRACKER05&TRACKER08

configuration manual V1.3.7



(Notice: Only for Engineer)

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1. USB RS232 Cable



Mini USB Port to Tracker Computer

USB Port to

OUR RS232 cable is modified based on normal RS232 Cable. It can be used to configure TZ-TRACKER02, TZ-TRACKER03New and TRACKER05New on personal computer.

Before using configuration software, please connect our GPS tracker to computer via our RS232 cable. The small end connects GPS tracker, the big end connects computer.

2. Step

- 1) Install .NET Freamwork

- 2) PL-2303 driver is for RS232 configuration cable . Please install



PL-2303 Driver Installer For
XP.exe

"

under Windows XP, and please install



PL-2303 Driver
Installer For Vista
Setup.exe

under Windows Vista.



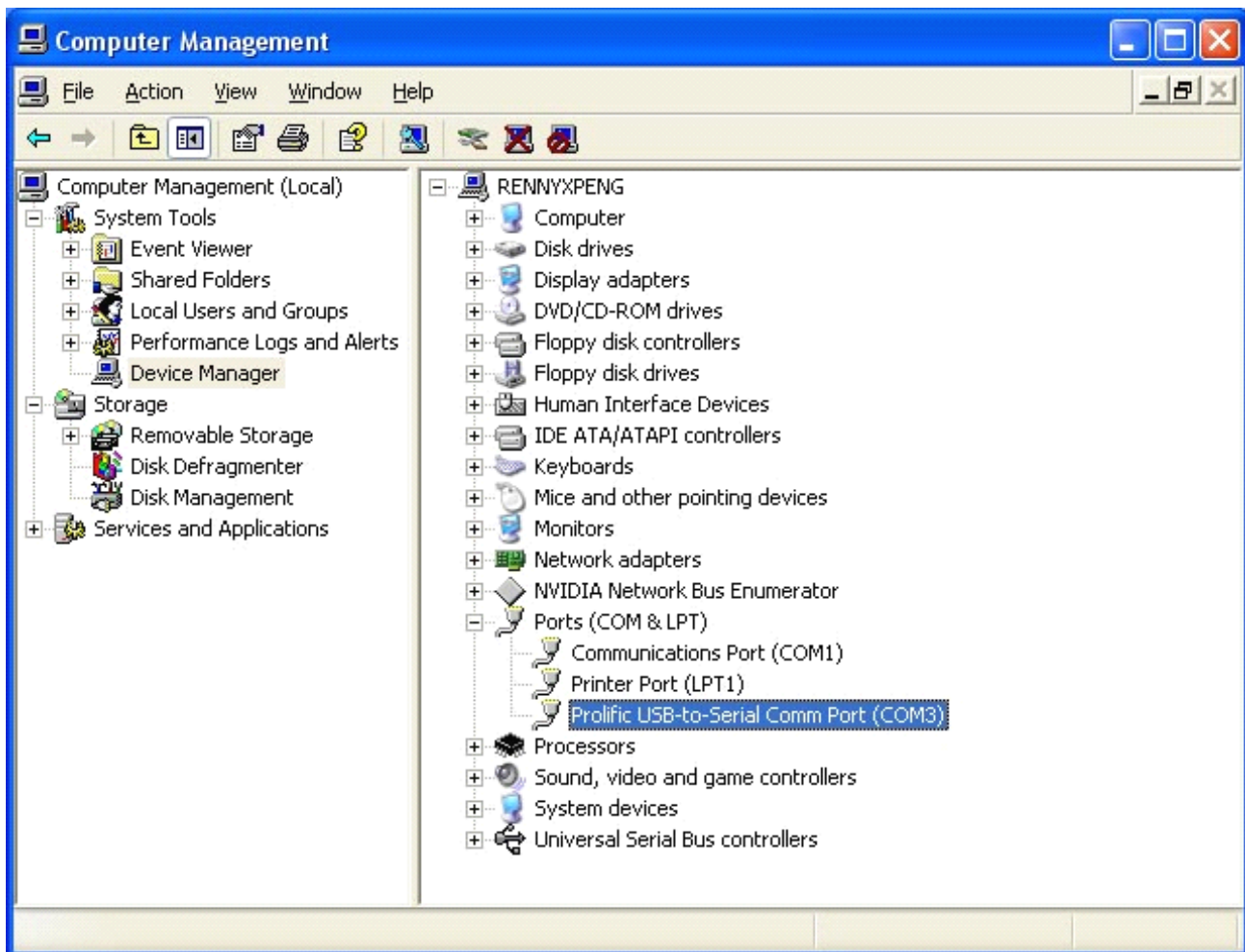
PL2303_Prolific_DriverInstaller...
应用程序
3,102 KB

under windows all systems (XP/Vista/Win7)

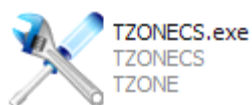
- 3) Connect configuration cable to computer
- 4) Go to desktop, choose My Computer-> click right button -> choose Manager-> System Tools -> Device Manager -> Ports, you will find the port which configuration cable is using



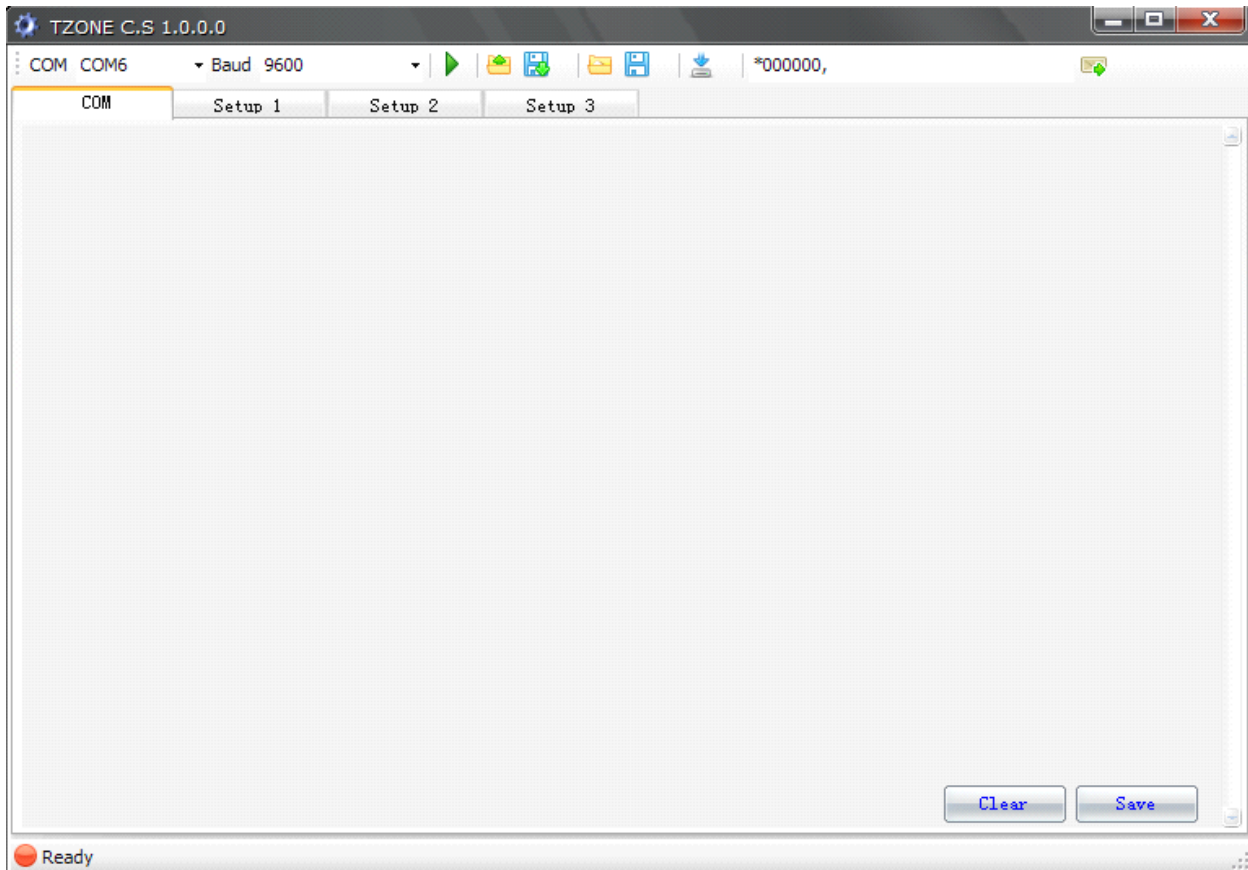
Prolific USB-to-Serial Comm Port (COM3)





5) Connect tracker with computer via configuration cable.



6) Run configuration software



7) Select the SerialPort which the configuration cable is using. Baud Rate is 9600 for TRACKER03New&TRACKER05New, and 38400 for TRACKER02/08 and GT08. Then click [] (open) button on software. If port open successfully,  Ready will show on the bottom in green highlight.

8) Turn on tracker.

9) Click [] (Read From Device) button , it will be shown




10) Ready to fill after the green spaces , And all the parameter will be shown on software.


COM	Setup 1	Setup 2	Setup 3
001 User Password(*\$\$\$\$\$,001,@\$@#\$#) Password: <input type="text" value="000000"/> (6 number)			
002 SMS(*\$\$\$\$\$,002,X,Y#) SMS Interval: <input type="text" value="0"/> [0,999] SMS Times: <input type="text" value="0"/> [0,999]			
003 SOS(*\$\$\$\$\$,003,0,F,CallNumber, SMS Number#) <input type="checkbox"/> State: <input type="text" value="Disable"/> CallNumber: <input type="text"/> (len<25) SMSNumber: <input type="text"/> (len<25)			
004 Low Power Alarm(*\$\$\$\$\$,004,XXX,YYY#) Low Power: <input type="text" value="3.6"/> [3.5,4.2] Auto shut down: <input type="text" value="3.4"/> [3.4,4.2]			
005 Over Speed Alarm(*\$\$\$\$\$,005,S,X,Y,Z#) State: <input type="checkbox"/> alarm speed: <input type="text" value="40"/> [10,250] count: <input type="text" value="60"/> [1,999] Interval: <input type="text" value="180"/> [10,360]			
006 Geofence(*\$\$\$\$\$,006,+lat1,+long1,+lat2,+long2,X,Y#) Latitude1: <input type="text" value="+9000.0000"/> [-9000.0000,+9000.0000] Longitude1: <input type="text" value="+18000.0000"/> [-18000.0000,+18000.0000] Latitude2: <input type="text" value="-9000.0000"/> [-9000.0000,+9000.0000] Longitude2: <input type="text" value="-18000.0000"/> [-18000.0000,+18000.0000] Interval: <input type="text" value="180"/> [10,360] alarm mode: <input type="text" value="Disable GEO-Fence alarm"/>			
008(*\$\$\$\$\$,008,ABCDEFG#) <input checked="" type="checkbox"/> SMS Call <input type="checkbox"/> SMS Format <input type="checkbox"/> Hung up <input type="checkbox"/> Device SMS <input type="checkbox"/> ADB <input type="checkbox"/> ADA <input type="checkbox"/> G			
009 GSM Baud(*\$\$\$\$\$,009,S#) <input type="radio"/> 900/1800 <input type="radio"/> 850/1900 <input checked="" type="radio"/> Auto			
011 APN(*\$\$\$\$\$,011,APN,Username,Password#) APN: <input type="text" value="gprs.mtctouch.com.lb"/> (len<28) APN User: <input type="text"/> (len<28) APN Password: <input type="text"/> (len<28)			


11) If you need to change setting, please click [] (Write to Device) button to write data into tracker.

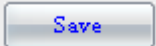
In the Com port, the machine will display all the configuration parameter.

11) The default configuration file to read Bin, please click [] (Read From File).

12) Configured parameters are stored into the Bin folder, please click [] (Write From File)


13) Initialize the machine's configuration, please click [] (Initial)

14) Clear com port data []

15) Com port data stored []

16) Can refer to the instructions of the SMS instruction list, the white strip which input you want to send the instructions and click on send, this feature can configure your machine faster.



[] Send the current command

#DE: View all configuration

#DO: Initialize the machine

3. Configure Software

COM

Choose the port which configuration cable is using, the port name is "Prolific USB-to-Serial Com Port".
Baud Rate is 9600 for TRACKER03New and TRACKER05New, 38400 for TRACKER 02/ TRACKER 08/GT08.
Press "Open" button.

Setup 1

Password Part

Password: it is in each SMS command. You can set new one.

Instruction: *\$\$\$\$\$,001,@ @ @ @ @ #

SMS Interval Report

Time interval: SMS report (value from 1-60000mins). If you want to stop interval SMS, please input 0.

Count: If you want device to send some messages and then stop, you can input a value between 1-999. If you want device to send position SMS unlimited, you can input 999. If you want to stop the Interval SMS, you should input 0.

Instruction: *\$\$\$\$\$,002,X,Y#

SOS

SMS Number: Set SOS number to receive SMS message from tracker.

Instruction: *\$\$\$\$\$,003,0,F,Call Number,SMS Number#

Low Battery Alarm Part

Low Battery Alarm: when voltage of tracker battery is lower than this value, tarcker will send SMS to SOS number (value from 3.5 – 4.2V).

Shut Down Voltage: when voltage of tracker battery is lower than this value, tracker will shut down automatically (value from 3.4 – 4.2V).

Instruction: *\$\$\$\$\$,004,XXX,YYY#

Over Speed Alarm

State: Enable/Disable over Speed alarm function

Over Speed Value: the warning value of over speed

Keep Over Speed Time: the duration time moving over warning speed.

Send Alarm Interval: the time interval to send over speed alarm.

Instruction: *\$\$\$\$\$,005,S,X,Y,Z#

Geo-Fence Alarm

The Geo-Fence is a rectangular area. Set two waypoints to fix one Geo-Fence.

Latitude1: the waypoint is bigger one.

Longitude1: the waypoint is bigger one.

Latitude2: the waypoint is smaller one

Longitude2: the waypoint is smaller one.

Note: Latitude1 > Latitude2, Longitude1 > Longitude2

Latitude format: +DDMM.MMMM or -DDMM.MMMM

Longitude format: +DDDMM.MMMM or -DDDMM.MMMM

D is Degree, M is Minute.

For example, Latitude: 22 32 12.34 E.

Degree is 22, Minute is 32, Second is 12.34. And then you need to transfer it to Degree-Minute format.

E is East and will be +. (If West will be -)

Minute = $32 + 12.34 / 60 = 32.2057$

So this latitude value on software shall be **+2232.2057**

Instruction: *\$\$\$\$\$,006,+lat1.+long1.+lat2,+long2,X,Y#

Extend Setting

A. Send SMS When Call: When a Call comes in, TRACKER will send SMS to the coming number.

B. GPRMC Mode: select for the GPRMC format. It will send SMS in standard GPRMC format. It is suitable for the system with GSM modem.

C. Auto Hang Up: Tracker will be hung up automatically when a call comes in.

D. Device SMS : Outside the machine will not send SMS, receive SMS only

E/F. ADA measure percent or ADB measure percent: this feature is used to measure oil. You only need choose one way to measure oil each time.

ADA matches port 6. If port 6 is used to measure oil, the original oil value is shown in percent format and sent to server via GPRS.

ADB matches port 4. If port 4 is used to measure oil, the original oil value is shown in percent format and sent to server via GPRS.

G. Reserved

Instruction: *\$\$\$\$\$,008,ABCDEFG#

GSM Band

900/1800: work in GSM900/1800/1900MHz.

850/1900: work in GSM850/1900MHz.

Auto: The machine automatically selects the operating band

Instruction: *\$\$\$\$\$,009,S#

APN

. APN: APN for GPRS function of GSM provider (max 27 characters)

. APN Name: Some GSM providers require GPRS login with user name. If no name in need, please keep in blank (max 27 characters)

. APN Password: Some GSM providers require GPRS login with password. If no password in need, please keep in blank (max 27 characters).

Instruction: *\$\$\$\$\$,011,APN,Username,Password#

Setup 2

DNS

State: Open the DNS status

DNS1: The first DNS server. Make sure it is fixed IP address.

DNS2: The reserved DNS server. Make sure it is fixed IP address.

Instruction: *\$\$\$\$\$,014, X,DNS1,DNS2#

IP/Port

. **IP Button:** choose this button, tracker will send GPRS to server's IP Address.

. **DNS Button:** DNS of server

Choose this button, tracker will send GPRS message to DN (domain name) of server

. **IP:** this is server IP address. Server must have a fixed IP address.

. **Port:** TCP port of server

Instruction: *\$\$\$\$\$,015,X,IP/DN,PORT#

GPRS

State: Enable (open GPRS function)

Disable (close GPRS function)

Instruction: *\$\$\$\$\$,016,X#

Keep alive

Interval: Set interval send "OA" to keep the GPRS connect

Instruction: *\$\$\$\$\$,017,A#

Interval GPRS

interval: GPRS time interval (value 0-999 seconds), 0 means interval GPRS not sent.

State: Enable (open GPRS function)

Disable (close GPRS function)

Instruction: *\$\$\$\$\$,018,X,Y#

GPRS Mode

TCP: TCP data transfer mode

UDP: TCP data transfer mode

Instruction: *\$\$\$\$\$,019,X#

Sleep Wait Time

Wait Time: Vibration sensors without opening the waiting time for sleep (value 0-999 Minute)

0 is not open vibration sensor never sleep

Instruction: *\$\$\$\$\$,020,X#

Sleep

Sleep: enable or disable sleep function.

Tremble: enable or disable tremble sensor. If you want device to send parking alarm or work in sleep mode, please select this.

Instruction: *\$\$\$\$\$,021,XY#

Module Mode

GPS State: Open the GPS module when unit into sleep

GSM state: Open the GSM module when unit into sleep. When the unit into sleep, could send SMS or calling to wake it up.

Instruction: *\$\$\$\$\$,022,X,Y#

IO Port

OUT 1: The first is to select the Out port 1 , the second is off the Out port 1

OUT 2: The first is to select the Out port 2 , the second is off the Out port 2

OUT 3: The first is to select the Out port 3 , the second is off the Out port 3

OUT 4: The first is to select the Out port 4 , the second is off the Out port 4

Instruction: *\$\$\$\$\$,025,X,Y#

Heartbeat Switch

Heartbeat Switch State: Open heart switch state

Instruction: *\$\$\$\$\$,040,X#

Heartbeat Interval

Heartbeat Interval: Send heartbeat interval data (value 1-9999 Minute)

Instruction: *\$\$\$\$\$,041,X#

Wakeup Time

Wakeup Time : the tremble duration time to wake up tracker from sleep mode (value from 1-254 seconds). If TRACKER keep tremble status for a time, TRACKER will wake.

Instruction: *\$\$\$\$\$,043,X#

Sleep Time

Sleep Time : static duration time before sleep(value from 30- 65535 seconds). If tracker keeps in static status for this time, tracker will go into sleep mode.

Instruction: *\$\$\$\$\$,044,X#

110 Parking Alarm

Parking alarm: Machine vibration alarm, the default is 5 seconds

Instruction: *\$\$\$\$\$,110,X#

Oil Sensor

Empty: the voltage when no oil in fuel tank.

Full: the voltage when full oil in fuel tank.

PS: Users shall test the actual voltage and find out the relationships between voltage change and oil change, then set correct parameter.

For example:

If voltage is +5V when no oil, and the value is 0V when full oil, the setting is: *000000,113,500,000#

If voltage is +5V when full oil, and the value is 0V when no oil, the setting is: *000000,113,000,500#

This function must be used with command 008 together. If the setting is correct, the value will be shown in ADC format via GPRS message.

Instruction: *\$\$\$\$\$,113,A,B#

Shut Oil

Speed: the maximum speed

OffTimes: the off time on circuit of OutA.

OnTimes : the open time on circuit of OutA.

ShutTimes: the total off-open times. One “off” and one “open” means one off-open time.

PS: Format: *\$\$\$\$\$,117,A,B,C,D#

This command is invalid if current speed is over than the max speed.

*note: because of safety, you had better set the parameter like this:

*000000,117,60,500,3000,5#

If current speed is lower than the 60km/h, the OutA will be off for 0.5 seconds, then be restored for 3 seconds. This will be repeated for 5 times

When use this function and set the parameter, it should be together with command of 116 to cut off oil.

Instruction: *\$\$\$\$\$,117,A,B,C,D#

118 Expand

A.Trembles: Vibration to send GPRS data

B.Input/Digital: The first high power frequency digital input trigger to send GPRS

C.Input/Digital: The second high power frequency digital input trigger to send GPRS

D. Reserved

E. Reserved

F. Reserved

G. Reserved

H. Short GPRS : Short GPRS data, applies only to AVL05

Instruction: *\$\$\$\$\$,118,ABCDEFGH#

Send Type

GPRS data: GPRS data transmission type

SMS data: Data type for SMS sending

Instruction: *\$\$\$\$\$,119,A#

ACC Alarm

State: Enable/Disable this function.

High ACC : the speed increased in unit time. Unit: 0.1 m/s^2

Low ACC : the speed decreased in unit time. Unit: 0.1 m/s^2

EG: *000000,120,1,28,42# means the warning forward acceleration is 2.8 m/s^2 , and the warning reserve acceleration is 4.2 m/s^2 . The alarm will occur when current acceleration is up to the warning value..

PS: The acceleration is analyzed in every 2 seconds. The new speed is usually got 1 second later than the last speed. Tracker will send alarm when current acceleration is up to the warning acceleration. Alarm is only valid when current location can be fixed via GPS.

Instruction: *\$\$\$\$\$,120,A#