TLT-3
User Manual
(TLT-3 GPS/GSM Vehicle Tracker)

V1.0

Manual update records

Version	Updates	Author	Date
V1.0	Manual initial order		2010－8－16

Product main features:

- Real-time SMS query coordinates
- time position, Phone Position
- speed alarm function
- historical data uploading
  running track monitoring

1. Introduction

TLT-3 GPS / GSM vehicle is a remote location tracking device, based on GPS technology and GSM / GPRS technology made of. Access to the user via SMS latitude and longitude location information, and then in Google Maps or other mapping software to find the location tracking device; or tracking device positioning data uploaded via GPRS to a designated server, the user query through the Internet, real-time location tracking devices historical trajectory.

TLT-3 GPS / GSM vehicle tracking device can be used for motorcycles, electric golf cars, ordinary private car. The machine built-in antenna, one machine, easy to install.

2. Features

1.built-in JRC / SKYTRAQ high performance GPS chipset. In weak signal conditions can pinpoint; in urban canyons and other areas with limited sky view can be good work.

2.built-in GSM / GPRS module, support GSM900/1800MHz. (850/1900 optional to do), can work worldwide.

3.support for SMS communication or GPRS TCP connection can be to receive location information by SMS or the Internet to view trajectory.

4. with the electronic fence function, speed alarm, historical data upload functions.

5.high-reliability circuit design, meet the automotive industry related standards.

Note:

1, please read this manual carefully and make the correct mode of operation to avoid any errors.

2, the proposed installation of this product to professional dealers to ensure the safety of use, installation and covert.

3 .pictures in this manual may be the product you get will be different to you buy the real product.

4, as a result of updated parameters and functional upgrades to increase without notice, if in doubt,

please consult our company or dealer financing.

3. Product structure diagram

3.1 Specification

Hardware	
GSM module	MTK program, GSM 900/1800 / 850/1900 dual-band or quad-band (optional) support for TCP protocol GSM/GPS/Power LED
GPS chip	JRC / SKYTRAQ high sensitivity GPS chipset
GPS Sensitivity	-164dBm
GPS frequency	L1,1575.42MHz
C/A code	1.023MHz
Passage	210-channel, full-track
Location accuracy	2.5m, CEP
Speed Accuracy	0.1 m/s
Time accuracy	1 us and the GPS time synchronization

Coordinate system	WGS-84
Regain	Average 0.1 s
Hot Start	Average 1 s
Warm Start	Average 30 s
Cold start	Average 35 s
Height restriction	Maximum 18,000 meters (60,000 feet).
Speed limit	The fastest 515 m / s (1000 section).
Acceleration limit	Less than 4g
Operating Temperature	-25°C to 70°C
Humidity	5% ~ 95% No coagulation
Size	88mm×50mm×20mm
Voltage	12V

3.2 LED status lights description

1、Blue LED --- instructions GSM signal state

Status	Meaning
Flash	No SIM card or no GSM network
Flash once every 8s	GSM receivers work well and stand-

2、Red LED --- charging instructions like

Status	Meaning
Always shine	Charging
Extinguish	Charging complete

3、Green LED --- direct GPS signal status

Status	Meaning
Does not shine	Work, but did not locate
Flash	Work, has been positioning

4. Annex

1, TLT-3 GPS / GSM vehicle tracking device

2, the power line

3, Manual (CD)

5. Install SIM card

1. Select SIM card:

- You can use a local moving company's SIM card.

●Support SMS / GPRS capabilities and has sufficient balance.

2. Open the device shell, the special SIM card into SIM card slot and lock.

3. Installation wiring diagram

TLT-3 external leads such as the Connection Description:

Red 12V power cable for the car, then car battery cathode; black is ground, then a car battery anode; pull switch to the ON side, the product boot. Please note that the correct installation of wire connection, if an error installing the device caused damage to your own risk.

6. Specific Application

When you read the brief description of the product, the product has been installed, SIM card already installed. Start following a specific use.

First step, a product owner, stored telephone numbers; (non-stored the same number of products to respond to instructions sent) and then modify the device configuration information. Products of the factory configured in the appendix. Command as follows:

Instruction Format: * new number 4-20 bit * Password 4 * number (1-3) **

Such as：*13900000000*0000*1**

Description: User initial password is: 0000. TLT-3 can be stored up to three phone numbers. When TLT-3 receiving the order, confirm the user password is correct, after the success of the sender to send the confirmation to the "SET USER NUMBER (1-3) OK". This directive also applies to the new number with the number of existing coverage, such as A is set to the first stored number. Similarly, if B then sends commands to set the first stored number, then the number will replace the A B numbers, becoming the first stored number.

6.1 Mode of introduction of products

There are two operating modes of the product model that is SMS (Short Message Point to Point mode) and GPRS online mode.

1. Users who just want to use the phone when necessary to obtain query the vehicle position (longitude, latitude), in the GOOGLE map corresponding to the address query, or by phone to control vehicle power off oil, then use SMS (text mode) that be.

2. Users who require real-time vehicle dynamic control and need to check the historical trajectory of vehicles can then use GPRS real-time online mode.

6.2 Switching the two modes as follows:

Text messages (SMS) Point to Point mode:

Command format: 700 + user password (4)

Such as：7000000

Description: When the TLT-3 received the SMS, to confirm the user password is correct, switch to the SMS application mode. After the success of the sender to send the confirmation to the "SET MODE OK, CURRENT MODE: SMS P2P".

GPRS online mode:

Command format: 710 + User Password 4

Such as：7100000

Description: When the TLT-3 received the SMS, to confirm the user password is correct, the switch to GPRS mode. After the success of the sender to send the confirmation to the "SET MODE OK, CURRENT MODE: GPRS".

Applications based on SMS mode operation

1. Single positioning request instructions

Command format: 666 + user password 4

For example: 6,660,000

Description: When TLT-3 received the order, confirm the user password is correct, read the GPS information, regardless of the validity of it, together with the original software with the base station set return back to the sender.

Data format：

Lat: latitude (+/-) latitude value (precision after the decimal point 5)
Long:: longitude direction (+/-) longitude value (precision after the decimal point 5)

Speed: speed KM / H (precision after the decimal point 2)
Direction: Heading (accurate to two decimal places)
Date: Date YYYY-MM-DD
Time: Time HH: MM: SS (GMT)
BS: base station information
FIX: Position Status (A / V)
ID: IMEI
STATE: Information Status

Valid data sample：

Lat: +22.50500

Long: +114.01000

Speed: 0.00KM/H

Direction: 315.00

Date: 2008-04-25

Time: 16:39:45

BS: 25ee0dff

Fix: A

ID: 353686009002030

STATE: SMS

Invalid data sample:

Lat: +22.50500

Long: +114.01000

Speed: 0.00KM/H

Direction: 315.00

Date: 2008—04—25

Time: 16:39:45

BS: 25ee0dff

Fix: V

ID: 353686009002030

STATE: SMS

Note: If the cold start and the GPS does not locate, then return invalid information

as shown below.

Such as：ERROR GPS GPRMC FRAME DATA

BS: 27971054

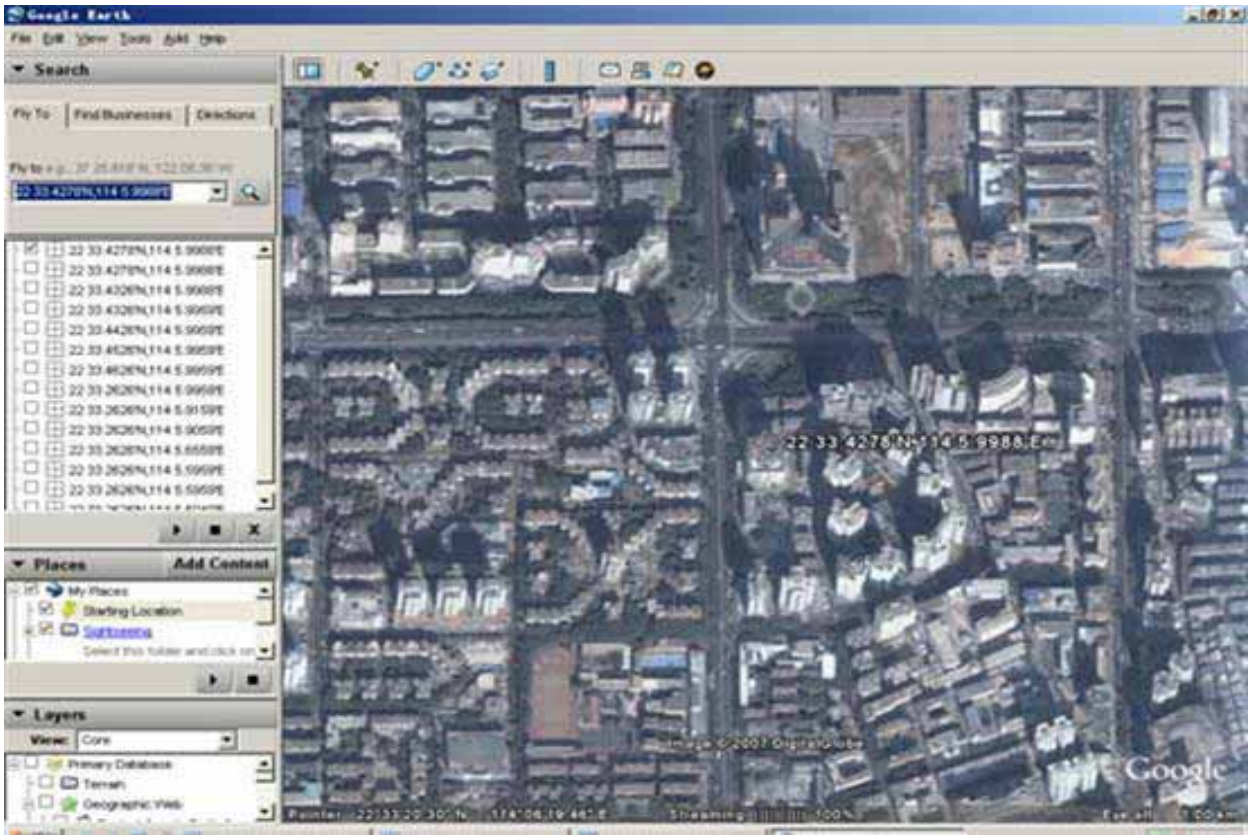
ID: 353686009002030

STATE: SMS

Check the map latitude longitude position of the corresponding detailed

1, download Google map software from http://earth.google.com

2, open the Google Maps software (for more information on the Google Maps software, please refer to http://earth.google.com) as shown below. (Note change in location data format)



Send "666 + code" SMS command to the TLT-3 by latitude and longitude data. Enter your

latitude and longitude received from the SMS and click the search button, Google Maps will show you the location map.

For example: When you receive the information transmitted from tracker, as follows:

Lat: +22.50500

Long: +114.01000

Speed: 0.00KM/H

Direction: 315.00

Date: 2008-04-25

Time: 16:39:45

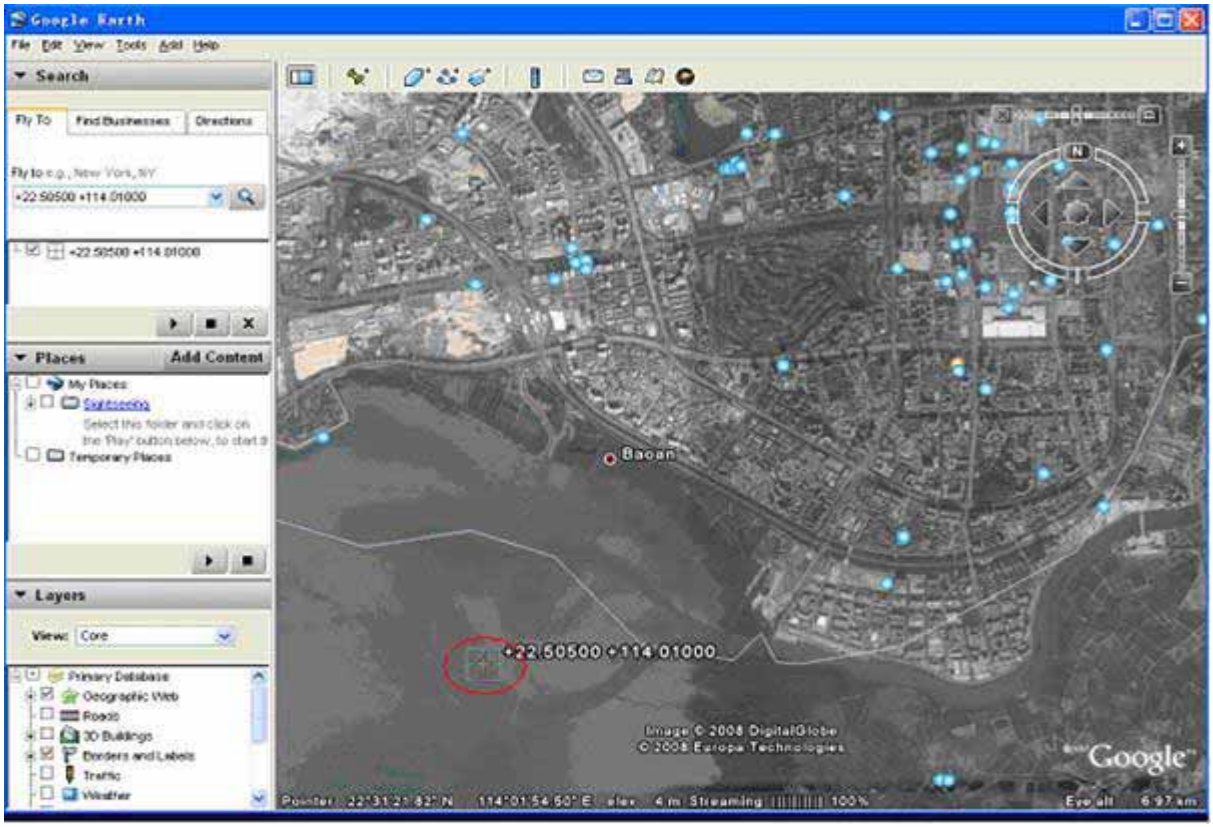
BS: 25ee0dff

Fix: A

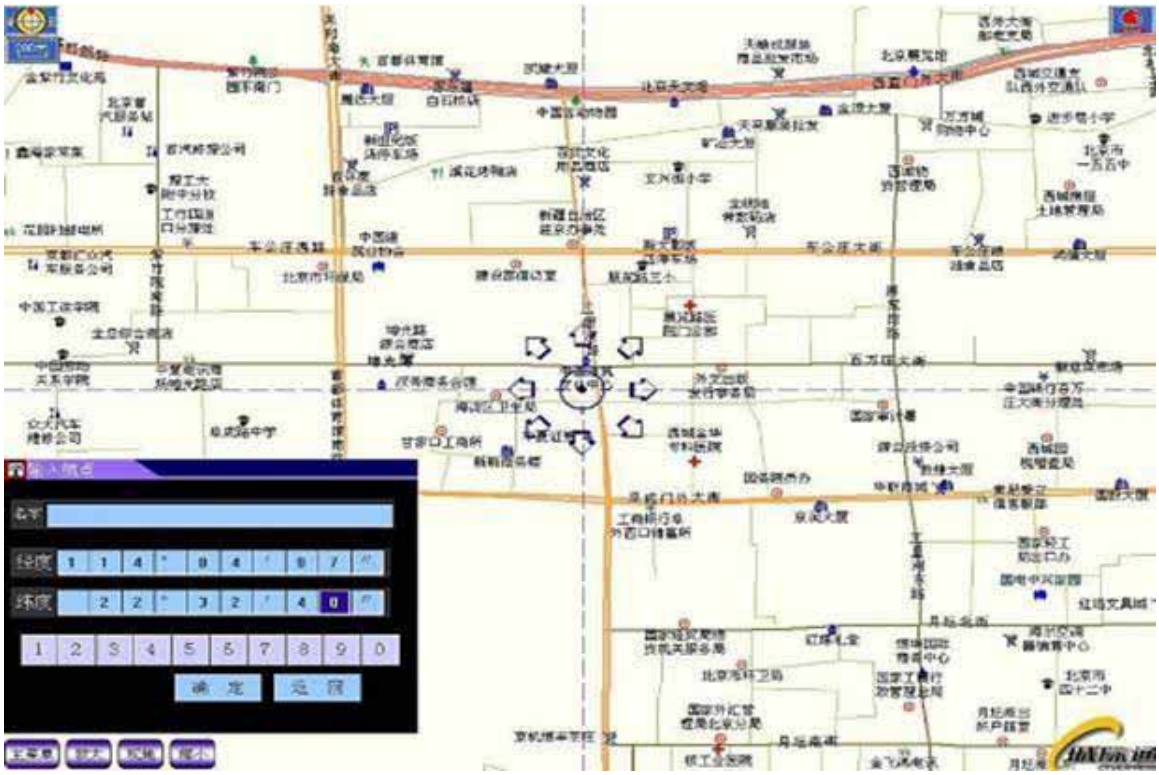
ID: 353686009002030

STATE: SMS

Find locations in Google Maps, enter in the appropriate location: +22.50500 +114.01000. Obtain the following picture:



Or you can use the PDA or navigation device on a local map software, enter the location data. (Note change in location data format)



SMS point to point mode, set projects and advanced applications

1. Change Password command

Command format: 777 + new password 4 + Old Password 4

For example: 77712340000

Description: to confirm the old password is correct, update the user password for the new user password, set up after the success of confirmation to the sender to send a short message. Content for the "SET USER PASSWORD OK".

2. GPS status is set to command

Send SMS commands can work on the GPS on / off / two states. GPS factory set or reset for the normal open state.

1, open the GPS instruction

instruction format: 222 + user password 4

For example: 2,220,000

Description: When the TLT-3 receiving the order, confirm the user password is correct,

open the GPS power, after the success of the sender to send the confirmation to the "GPS ON OK . "

2, close the GPS commands
command format: 333 + user password 4
For example: 3,330,000
Description: When the TLT-3 receiving the order, confirm the user password is correct, close the GPS, after the success of the sender to send the confirmation to the "GPS OFF OK" .

3. Instructions to send location information periodically

Instruction Format: 4 xx + user password 4
For example: 4,010,000
Description: One is a 0-9 × that figure, when XX is less than 60, its unit is minutes, when XX is greater than 60, the value of XX minus 60, the unit is the hour, that is 61 to 1 hour, 62 for 2 hours, and so on. When TLT-3 receiving the order, confirm user password is correct, TLT-3 set the current time as the initial time of time, XX for the interval to send a confirmation sending mobile phone text message "TIMER START, REPEAT INTERVAL: <X> MINUTES ". Then start basic value of the initial time of time, when the arrival interval × × time to send the previous" one-time positioning request "return message format location information, which information items automatically update the state STATE: TIMER. When XX is 00, the cancellation of regular orders to send position information, the sender's mobile phone to send a confirmation message "TIMER STOP".

Note: The current version of the maximum time interval of not more than 2 hours, For a longer time, please let me company dedicated to You customize.

4. Calling switch instruction

Calling off instruction format: 150 + user password

for example: 1500000

calling open instruction format: 151 + user password

for example: 1,510,000

Description: When the TLT-3 before calling the relevant instructions to confirm the user password is correct, close the calling function (including the SOS distress, power failure alarm calling, fence alarm calling, speed alarm, etc), after the success of the sender to send the confirmation to the "SET VOICE CALL: OFF". When TLT-3 before calling open order, confirm the user password is correct, open the calling features (including the SOS distress, power failure alarm calling, fence alarm calling, speed alarm, etc), after successfully sending a confirmation to sender "SET VOICE CALL:

ON".

5. Phone positioning function

Description: When stored in one of the three phone numbers of calls come in, and hang up after ringing sound 2-5, then sent to the call number as a single positioning of the location information, the information in the state prompted the STATE: CALL. Non-stored phone numbers hang up incoming calls directly without any treatment.

6. Electronic fence function

Electronic fence is to set the coordinates for the center of the circle, set the radius to determine the scope of the fence. When turned on, after the TLT-3 beyond the scope of the fence set stored immediately after the number sent to the three previous "one-time positioning request" message format returned location information. Information in the state prompted the STATE: OS. Also call a telephone number stored in the first. If unsuccessful (shutdown or not connected), then in turn call the second, third.

When TLT-3 re-entering the fenced area will be set immediately sent to the No. 3 time in front of pre-existing "single positioning request" message format returned location information. Information in the state prompted the STATE: RS. Also call a telephone number stored in the first. If unsuccessful (shutdown or not connected), then in turn call the second, third.

1、Set the fenced area

According to the different coordinates input format, the user can choose the following format command operation.

Instruction format 1:003 + user password E / Wdddmm.mmmmN / Sddmm.mmRzzz.z

example: 0030000E11406.0024N2233.4230R0.1

Description: E – East latitude; W – West latitude; N - north latitude; S - South latitude. Used in this example is E and N, please select the appropriate location according to the actual coordinates of format settings. The meaning of the various

parts of the sample as follows: Edddmm.mmmm is divided into units of degrees longitude information, which said ddd degrees, mm.mmmm that sub. (Decimal point behind the four, followed by zero can not be omitted).

Nddmm.mmmm is a degree of latitude is divided into units of information, which dd that degree, mm.mmmm said points. (Decimal point behind the four, followed by zero can not be omitted) zzz.z is the domain of radius 【999.9- 0.1】, units KM. When TLT-3 received the order to confirm the user password is correct to return to the sender to confirm the short message: SET GEO-FENCE OK, and open the electronic fence function.

Instruction format 3:005 + user password Rzzz.z

example: 0050000R0.1

Description: When the TLT-3 received the order to confirm the correct user password immediately after reading the latest GPS data and determine the validity of (the second is for the A), effective the extraction of the current coordinates of latitude and longitude information as a fencing center of a circle, and to R value of the radius, while open electronic fence, a successful return after the first sending confirmation SET GEO-FENCE OK. GPS data is invalid if the date is to give up, continue to receive the next one, if 50 seconds have not received valid data, then return to the sender to send reminder: ERROR GPS DATA, TRY AGAIN LATER. After the GPS set to resume their original state (on / off / adaptive).

7. Open the e-fence: 211 + user password

When TLT-3 received the order to confirm the correct password to open electronic fence after return to the sender to confirm the short message: GEO-FENCE ON.

8. Close E-fence: 210 + user password

When TLT-3 received the order to confirm the user password is correct closed electronic fence to return to the sender to confirm the short message: GEO-FENCE OFF.

Note: 1, fences can not exceed the radius of its domain, the fractional part of the right to a value of zero must enter zeros. For example: R = 1, must be entered as 1.0.

2, if the calling state is off, it will not make calls, send text messages to pre-existing users only.

3. degrees and is divided into 60 binary conversion, that 1d = 60m.

Note:

Three ways to set the electronic fence Choose one, when the product after receipt of the electronic fence electronic fencing instruction set feature automatically opens. When turned off the electronic fence is open again after the previous set are still valid.

9. Speed alarm

Command format: # 122 # user password # X # #

example: # 122 # 0000 # 250 # #

Note: X is the speed reference value, the data type integer, in units of km / hour (KM / H), the domain of 【0,999 】.When TLT-3 received the order to confirm the user password is correct, it will set the speed reference value X, X = 0 时, close the speed alarm function, X! = 0 speed alarm function is turned on, after the success of the first stored to the user send confirmation message "SET RATE LIMIT: X. When the speed alarm function is turned on, TLT-3 began to read the GPS data, speed, and comparison with X real-time. If the GPS speed is greater than in X, the instructions at this time speeding, TLT-3 immediately sent to the No. 3 time in front of pre-existing "single positioning request" message format returned location information, the information in the status prompt for the STATE: OVER SPEED. speeding alarm if it detects the speed of GPS in less than X, it indicates the speed at this

time to return to a safe speed driving, TLT-3 immediately sent to the No. 3 time in front of pre-existing "single positioning request" message format returned location information, the information in the state prompted the STATE: SAFE SPEED.

10. Historical data uploading

In SMS mode, need to use this feature on the switch to GPRS mode on IP, APN settings, etc., specific instructions and upload the data format please see the application of GPRS-based three-step operation.

1, historical data records set

command format: # 807 # user password # X # #

example: # 807 # 0000 # 30 # #

Description: X is a historical record of the sampling frequency, an integer, the domain of【 0,999】unit is seconds. When TLT-3 received the order to confirm the user password is correct, set the historical record of the sampling frequency is X. If X = 0, then close the historical data record, if X! = 0, then began to X seconds as the time interval the received GPS data is stored, after the successful transfer back to the sender to confirm Xin Xi "SET SAMPLING OK".

Note: 1, record the size of each data about 100B (BYTE).

2, historical data records for storage space allocated to 864KB (BYTE), data storage stack covered with an updated approach. Suppose X = 30, you can record about 3 days of data, if X = 300, you can record approximately 30 days of data. When the data are filled with 864KB after the new data received to cover the first data recorded automatically.

3, if the power-saving feature is turned on and the TLT-3 long at rest, then history will automatically shut down until the TLT-3 was opened after wake-up GPS.

2 .set of historical data upload instructions

A, From 24-hour history:

Instruction Format: # 808 # user password # 24 # #

example: # 808 # 0000 # 24 # #

Note: When TLT-3 receiving the order confirmation user password is correct, return to sender confirmation message: "START UPLOAD 24H HISTORY RECORD". Sent to the server

while starting the last 24 hours recorded historical data, format and GPRS mode "immediately upload the current location of command" of the location information as shown, information in the state prompted the STORAGE.

B, to read all data records:

Instruction Format: # 808 # 0000 # #

Description: When TLT-3 received the order to confirm the user password is correct, return to sender confirmation message: "START UPLOAD ALL HISTORY RECORD". Also sent to the server storage area began to record all the historical data, format and GPRS mode "immediately upload instructions current location," location information shown. Information in the state prompted the STORAGE.

11、Remote upgrade instructions

1), command format:! - User password

For example:! -0,000

Description: When the TLT-3 received the order to confirm the user password is correct, the automatic restart and automatically log on FTP server to download program. When the update again after a successful reboot into normal use. Note: FTP address is stored within the machine

2), instruction format:! - User password, FTP address, user name, password, for example:! -0000, Igarin.gicp.net, tracker, trac

Description: When the TLT-3 received The instructions to confirm the user password is correct, the automatic restart and automatically log FTP address of the server download. When the update again after a successful reboot into normal use. Note: FTP address length 【5.35】, can also domain names, letters, numbers, dot (.) Underscore (_) and hyphen (-) form. User name FTP server user name, length 【3.20】; password for the FTP server password length 【3.20】. User name and password, respectively, numbers and letters.

GPRS mode, the application of operations

Mode switching instructions please refer to the aforementioned mode switching, in

the working mode, TLT-3 can be stored three numbers (1, 2, 3) and a 4-digit password, a group of TCP / IP server IP address and port number, 4 digit password and a GPRS GPRS access point APN number.

User-defined text messages related configuration commands are non-volatile content, set free after the success of the state of switch machine effect until changed again received the relevant instructions or reset operation.

1. The product location data uploaded to the Internet, three major steps:

1. Settings GPRS access point (Access Point Name)

Instruction format 1: # 803 # user password # APN # #

example: # 803 # 0000 # CMNET # #

directive format 2: # 803 # Password # APN # APN Username Password # APN # #

Explain 1: different GSM / GPRS service providers to offer a different APN, please according to the local service provider's APN to choose to use the instruction format 1 or format 2 instruction set.

Explain 2: When the TLT-3 receiving the order, confirm the user password is correct, update GPRS access point for the new access point, set up after the success of confirmation to the sender to send a short message. If you send the order form 1, then back to confirm the information "SET GPRS APN OK". If you send the order form 2, back to confirm the information "SET GPRS ACCOUNT OK".

Note: APN factory set or reset to CMNET. APN for 3 to 35 letters, numbers, dot (.) Underscore (_) and hyphen (-) formed characters. APN APN username user and password, respectively, from 3 to 20 characters consisting of numbers and letters.

2. **Set TCP / IP server IP address and port number**

Instruction Format: # 804 # # Fixed IP addresses user password / domain # port # #

example: # 804 # 0000 # 222.125.12.32 # 80 # # or # 804 # 0000 # www.gps069.com # 9876 # #

Description: When TLT-3 receiving the order, confirm the user password is correct,

update TLT-3 internally stored IP address and port number, set up after the success of confirmation to the sender to send a short message: "SET SERVER IP AND PORT OK".

3. **From time to time the data set**

Instruction Format: # 805 # # sample user password each time interval T # upload data such as article number N #

For example: # 805 # 0000 # 10 # 6 # #

Function: sampling time T in seconds, the domain of 【10 , 59999】, upload data each time the Number N, the domain of 【1.50】. When TLT-3 receiving the order, confirm the user password is correct to the sender send a confirmation SMS: SET GPS SAMPLING TIME AND QUANTITY OK. Instructions specified in both the sampling interval T, a continuous reading GPS NEMA data in the $ GPRMC statement, and stored in memory. When the number of articles stored on the user to set up the Number of N per upload, began to connect GPRS server and the data sent. If due to network or other causes of data not sent to the server, the data is automatically backed up, when the network returned to normal after the replacement data to the server. From advanced applications of data formats such as GPRS 7. Immediately upload the contents of the current position back, the data in the state labeled AUTO. When set to "upload data each time the Number of N" is 0, then close the regular upload, send a confirmation to the sender SMS: GPRS TIMER STOP.

Do the three-step basic setup, you can operate in the service of products for you to monitor the platform to see their vehicle running track, monitor the movements of the vehicle.

Products in the GPRS mode settings and advanced applications

1. **Change the stored telephone number instruction**

Instruction Format: * new number 4-20 bit * Password 4 * number (1-3) **

For example: * 13900000000 * 0000 * 1 **

Note: up to 3 stored phone numbers. When TLT-3 receiving the order, confirm the user password is correct, with the new number to replace the existing number, after the

success of the sender to send the confirmation to the "SET USER NUMBER (1-3) OK".

2. Change Password command

Command format: 777 + new password 4 + Old Password 4

For example: 77712340000

Description: to confirm the old password is correct, update the user password for the new user password, set up after the success of confirmation to the sender to send a short message. Content for the "SET USER PASSWORD OK".

3. GPS status is set to command

Send SMS commands can work on the GPS on / off / two states. GPS factory set or reset for the normal open state.

1, open the GPS instruction

instruction format: 222 + user password 4

For example: 2,220,000

Description: When the TLT-3 receiving the order, confirm the user password is correct, open the GPS power, after the success of the sender to send the confirmation to the "GPS ON OK . "

2, close the GPS commands

command format: 333 + user password 4

For example: 3,330,000

Description: When the TLT-3 receiving the order, confirm the user password is correct, close the GPS, after the success of the sender to send the confirmation to the "GPS OFF OK" .

4. Single Location request instructions

Command format: 666 + user password 4

For example: 6,660,000

Description: When TLT-3 received the order, confirm the user password is correct,

read the GPS information, regardless of the validity of it, together with the original software with the base station set return back to the sender.

Data format:

Lat: latitude (+/-) latitude value (precision after the decimal point 5)

Long:: longitude direction (+/-) longitude value (precision after the decimal point 5)

Speed: speed KM / H (precision after the decimal point 2)

Direction: Heading (accurate to two decimal places)

Date: Date YYYY-MM-DD

Time: Time HH: MM: SS (GMT)

BS: base station information FIX: Position Status (A / V)

ID: IMEI

STATE: Information Status

Valid data sample:

Lat: +22.50500

Long: +114.01000

Speed: 0.00KM/H

Direction: 315.00

Date: 2008-04-25

Time: 16:39:45

BS: 25ee0dff

Fix: A

ID: 353686009002030

STATE: SMS

Invalid data sample:

Lat: +22.50500

Long: +114.01000

Speed: 0.00KM/H

Direction: 315.00

Date: 2008-04-25

Time: 16:39:45

BS: 25ee0dff

Fix: V

ID: 353686009002030

STATE: SMS

Note: If the cold start and the GPS does not locate, then return invalid information

Such as：ERROR GPS GPRMC FRAME DATA

BS: 27971054

ID: 353686009002030

STATE: SMS

5. Change the GPRS user name

command format: # 801 # Password # # # The new user name

for example: # 801 # 0000 # username # #

Note: When TLT-3 receiving the order, confirm the user password is correct, update the user called the new user name, set to the sender after the success of short message sent to confirm: "CHANGE USERNAME OK".

6. GPRS service password change

Instruction Format: # 802 # service password user password # new password # # # old services

such as: # 802 # 0000 # 1111 # 0000 # #

Description: When TLT-3 receiving the order, confirm the user password and old password is correct service After the update service password password for the new service, set to the sender after the success of short message sent to confirm: "CHANGE PASSWORD OK".

7. From here instructions immediately

Instruction Format: # 806 # user password # #

example: # 806 # 0000 # #

Description: When TLT-3 receiving the order, confirm user password is correct, the first stored number to send a confirmation SMS "START GPRS UPLOAD "while the server sends the current store of data. From the data in the state prompted for the "SMS". Upload format: # IMEI number # user name # service password # # status # data base of information $ GPRMC ... . # base station information $ GPRMC ... . # #

example：

#123456789000001#SR-6869BE#0000#SMS#3

#25ee0dff$GPRMC,083945.180,A,2233.4249,N,11406.0046,E,0.00,315.00,251207,,,A*6E

#25ee0dff$GPRMC,083950.180,A,2233.4249,N,11406.0046,E,0.00,315.00,251207,,,A*6E

#25ee0dff$GPRMC,083955.180,A,2233.4249,N,11406.0046,E,0.00,315.00,251207,,,A*6E

##

Note: The data format immediately upload status: SMS.

8. Calling switch instruction

Calling off instruction format: 150 + user password

for example: 1500000

calling open instruction format: 151 + user password

for example: 1,510,000

Description: When the TLT-3 before calling the relevant instructions to confirm the user password is correct, close the calling function (including the SOS distress, power failure alarm calling, fence alarm calling, speed alarm, etc), after the success of the sender to send the confirmation to the "SET VOICE CALL: OFF". When TLT-3 before calling open order, confirm the user password is correct, open the calling features (including the SOS distress, power failure alarm calling, fence alarm calling, speed alarm, etc), after successfully sending a confirmation to sender "SET VOICE CALL:

ON".

9. Phone Upload

Description: When stored in one of three telephone calls come in to locate numbers and ringing in the back to hang up after 2-5 sound, then treated as a single positioning command processing, the status prompt for the "CALL".

10. Electronic fence function

Electronic fence is to set the coordinates for the center of the circle, set the radius to determine the scope of the fence. When turned on, after the TLT-3 beyond the limits set by the fence immediately sent to the server format and GPRS mode "immediately upload the current location of instruction," the location information shown in the format location information. Information in the state prompted to: OS. Also call a telephone number stored in the first. If unsuccessful (shutdown or not connected), then in turn call the second, third.

When TLT-3 re-entering the fenced area will be set immediately sent to the server 3.2.10 format location information. Tips for the state information: RS. Also call a telephone number stored in the first. If unsuccessful (shutdown or not connected), then in turn call the second, third.

1、Set the fenced area

According to the different coordinates input format, the user can choose the following format command operation.

Instruction format 1:003 + user password E / Wdddmm.mmmmN / Sddmm.mmRzzz.z

example: 0030000E11406.0024N2233.4230R0.1

Description: E – East latitude; W – West latitude; N - north latitude; S - South latitude. Used in this example is E and N, please select the appropriate location according to the actual coordinates of format settings. The meaning of the various parts of the sample as follows:

Edddmm.mmmm is divided into units of degrees longitude information, which said ddd degrees, mm.mmmm that sub. (Decimal point behind the four, followed by zero can not be omitted),

Nddmm.mmmm is a degree of latitude is divided into units of information, which dd that degree, mm.mmmm said points. (Decimal point behind the four, followed by zero can not be omitted)

zzz.z is the domain of radius 【999.9- 0.1】, units KM.

When TLT-3 received the order to confirm the user password is correct to return to the sender to confirm the short message: SET GEO-FENCE OK

Instruction format 2:004 + user password E / Wddd.dddddN / Sdd.ddddRzzz.z

example: 0040000E114.10004N22.55705R999.9

Description: E - Eest latitude; W - West latitude; N - north latitude; S - South latitude. Used in this example is E and N, please select the appropriate location according to the actual coordinates of format settings. The meaning of the various parts of the sample as follows:

Eddd.ddddd are degrees of longitude information, which ddd.ddddd that degree. (Decimal point behind the five, followed by zero can not be omitted)

Ndd.ddddd is a degree of latitude in units of information, which dd.ddddd that degree. (Decimal point behind the five, followed by zero can not be omitted) zzz.z is the domain of radius 【999.9- 0.1】, units KM.

When TLT-3 received the order to confirm the user password is correct return to the sender to confirm the short message: SET GEO-FENCE OK.

Instruction format 3:005 + user password Rzzz.z

example: 0050000R0.1

Description: When the TLT-3 received the order to confirm the correct user password immediately after reading the latest GPS data and determine the validity of (the second is for the A), effective the extraction of the current coordinates of latitude and longitude information as a fencing center of a circle, and to R value of the radius, while open electronic fence, a successful return after the first sending confirmation SET GEO-FENCE OK. GPS data is invalid if the date is to give up, continue to receive

the next one, if 50 seconds have not received valid data, then return to the sender to send reminder: ERROR GPS DATA, TRY AGAIN LATER. After the GPS set to resume their original state (on / off / adaptive)

Note: 1, fences can not exceed the radius of its domain, the fractional part of the right to a value of zero must enter zeros. For example: R = 1, must be entered as 1.0.

2, if the calling state is off, it will not make calls, send text messages to pre-existing users only.

3 .degrees and is divided into 60 binary conversion, that 1d = 60m.

11. Open the e-fence: 211 + user password

when the TLT-3 received the order to confirm the user password is correct to open the electronic fence to return to the sender to confirm the short message: GEO-FENCE ON.

12. Close electronic fence: 210 + user password

when the TLT-3 received the order to confirm the correct password after the close of electronic fence to return to the sender to confirm the short message: GEO-FENCE OFF.

13. Overspeed alarm function

instruction format: # 122 # user password # X # #

example: # 122 # 0000 # 250 # #

Note: X is the speed reference value, the data type integer, in units of km / hour (KM / H), defines the domain for the 【0,999】. When TLT-3 received the order to confirm the user password is correct, it will set the speed reference value X, X = 0 时, close the speed alarm function, X =! 0 speed alarm function is turned on, after the success of the first stored to the user send confirmation message "SET RATE LIMIT: X. When the speed alarm function is turned on, TLT-3 began to read the GPS data, speed, and comparison with X real-time. If the GPS speed is greater than in X,

the instructions at this time speeding, TLT-3 immediately sent to the server and the

GPRS mode, a format "command immediately upload current location" as shown in the position information of the location information, information in the state prompted the OVER SPEED. speeding alarm if it detects GPS in speed is less than X, it indicates the speed at this time to return to a safe speed driving, TLT-3 immediately sent to the server and the GPRS mode, a format "command immediately upload current location" as shown in the position information of the location information, status information Tips for the SAFE SPEED.

14. Historical data uploading

In SMS mode, need to use this feature on the switch to GPRS mode on IP, APN settings, etc..

1, historical data records set command format: # 807 # user password # X # #

example: # 807 # 0000 # 30 # #

Explain: X is a historical record of the sampling frequency, an integer, the domain of 【0,999】unit is seconds. When TLT-3 received the order to confirm the user password is correct, set the historical record of the sampling frequency is X. If X = 0, then close the historical data record, if X! = 0, then began to X seconds as the time interval the received GPS data is stored, after the successful transfer back to the sender to confirm Xin Xi "SET SAMPLING OK".

Note:

2, historical data records for storage space allocated to 864KB (BYTE), data storage stack covered with an updated approach. Suppose X = 30, you can record about 3 days of data, if X = 300, you can record approximately 30 days of data. When the data are filled with 864KB after the new data received to cover the first data recorded automatically.

3, if the power-saving feature is turned on and the TLT-3 long at rest, then history will automatically shut down until the TLT-3 was opened after wake-up GPS.

2 set of historical data upload instructions

A, From 24-hour history: Instruction Format: # 808 # user password # 24 # #

example: # 808 # 0000 # 24 # #

Note: When TLT-3 receiving the order confirmation user password is correct, return to sender confirmation message: "START UPLOAD 24H HISTORY RECORD". Sent to the server while starting the last 24 hours recorded historical data, format and GPRS mode "immediately upload the current location of command" of the location information as shown, information in the state prompted the STORAGE.

B, to read all data records:

Instruction Format: # 808 # 0000 # #

Description: When TLT-3 received the order to confirm the user password is correct, return to sender confirmation message: "START UPLOAD ALL HISTORY RECORD". Also sent to the server storage area began to record all the historical data, format and GPRS mode "immediately upload instructions current location," location information shown. Information in the state prompted the STORAGE.

15, invalid data is uploaded switch

command format: 08X + user password 4

Function: When the TLT-3 receiving the order, confirm the user password is correct, according to the value of X is upload invalid data set switch state. X = 1, open the invalid data uploading. After the success of the sender set to send a confirmation SMS: INVALID DATA UPLOAD: ON, TLT-3 at this time whether the GPS data received is valid will be uploaded to the server. X = 0, close the invalid data uploading, set after the success of confirmation to the sender to send a short message: INVALID DATA UPLOAD: OFF, then close the invalid data upload, only upload valid data.

Note: The factory set or reset the state after the operation to stop uploading invalid data, this instruction set machine state without switching effect, until once again received the relevant instructions to change or reset operation.

Note: 1, this feature is only effective in GPRS mode.

2, the default value is OFF.

16, remote upgrade instruction

1), command format:! - User password

For example:! -0000

Description: When the TLT-3 received the order to confirm the user password is correct, the automatic restart and automatically log on FTP server to download program. When the update again after a successful reboot into normal use. Note: FTP address is stored within the machine

2), instruction format:! - User password, FTP address, user name, password.

for example:! -0000, Igarin.gicp.net, tracker, trac

Description: When the TLT-3 received the order to confirm the user password is correct, automatically reboot and automatically login FTP address server download. When the update again after a successful reboot into normal use. Note: FTP address length 【5.35】, can also domain names, letters, numbers, dot (.) Underscore (_) and hyphen (-) form. User name FTP server user name, length 【3.20】; password for the FTP server password length 【3.20】. User name and password, respectively, numbers and letters.

Accessibility operation

1, Directive reset * RESET # 0000 # #.

Description: This command resets all the configuration information after reboot to the factory configuration.

2, instruction restart * RESTART # 0000 # #

Description: This command only restart the TLT-3, does not reset the configuration information.

3, to read the current configuration of the module

SMS command format: * GTAS #

Function: When the module is receiving instruction, the return module keep all the

settings.

Data format:

IMEI: marked as code

MOD: Point to Point (SMS P2P 2) / SMS platform (SMS SC) / GPRS

GPS: normally open (ON) / normally closed (OFF) / power (AUTO)

HFR: hands-free switch

MTPRF: monitor (SILENT) / normal (NORMAL)

BS: base station information back to the number of

GEO-FENCE = ON / OFF longitude Longitude, latitude latitude value (R radius (minimum 0.1KM)

GEO-FENCE STATE: RS / OS

DEFENCE: ON / OFF power off alarm switch

VOICE: ON / OFF switch calling POWER: ON / OFF power switch off oil

RATE: XX speeding baseline

ST: time location information requested time interval

TN: SMS mode timer request number

INVALID UPLOAD : invalid data upload switch

MOVE: displacement alarm radius, displacement alarm switch

ACC PROMPT: ACC switching state switch

GU: GPRS user name, password

SRV: Server IP address, port number

APN: GPRS access point, APN username , APN Password

SAMP: From the sampling interval, an upload article number (go cart track regularly upload mode)

SAMP2: From the sampling interval, an upload article number (stop mode throttle upload time) HISTORY

SAMP: History From the sampling interval

4, read the current number and password for all password text

command format: * GTAN #

Function: When the module is receiving instruction, the return of all deposit module number and password, including the service center number and password, user name, password.

Data format:

U1: Number one, the password

U2: Number 2, password

U3: No. 3, password

SC: service center number, service code

state mark

Status	Corresponding identity
666 one-time request	SMS
4XX regularly send	TIMER
Phone Location	CALL
A fence	OS
Finalists selected	RS
Speed alarm	OVERSPEED
Safe speed	SAFESPEED
Historical Data Upload	STORAGE
806 single-hair positioning	SMS
From time to time to go car track	AUTO

Reset Status List

configuration	state	configuration	state	configuration	state
Working mode	Point to point	Stored calls	Empty	GPRS user name	V500
GPS Statu	On	Timing send	Stop	Speed alarm	Close
ANP	CMNET	IP Address	0.0.0.0 0000	Shift alarm	Close
Calling switch	Open	GPRS Password	0000	Historical Data Upload	Close
Historical data sampling	Stop	IP Address	0.0.0.0 0000	Invalid data upload	Stop
Password	0000	The number of base stations	1	Electronic fence	Stop

Instruction Set

Instruction	Explanation
700+ user password	SMS Mode
710+ user password	GPRS Mode
000 + user password	Close the handset t
004+ user password E/Wddd.dddddN/Sdd.dddddRzzz.z	Set the scope of the fence (units of degrees) in two modes
005+passwordRzzz.z	Set the scope of the fence(Current position coordinates)
010+ user password	Disarmament in two modes
011+ user password	Armament in two modes
#122#password#x##	Set alarm of over speed
100+ user password	Open power-saving function in two modes
150+ user password	Close calling instruction in two modes
151+ user password	Open calling instruction in two modes
211 + user password	Open the electronic fence in two modes
210 + user password	Close the electronic fence in two modes
222+ user password	Open GPS In two modes
333+ user password	Close GPS In two modes
4xx+ user password	Regularly upload in SMS mode
666+ user password	Return single localization to user number in two modes
777+new password + old password	Change user password in two modes
#803# user password #APN#APN user name# APN password##	Set up access GPRS points in GPRS mode

#804#user password # fixed IP address # port ##	Set up TCP / IP server's IP address and port number in GPRS mode
#805#user password# sampling interval T # the number of upload data each time N##	Upload data set in GPRS mode
#806# user password ##	Upload the current position immediately in GPRS mode
#807#password#x##	Set historical sampling rate
#808# password#24##	Uploading the 24 hours historical data
#808#password##	Uploading all the historical data
#809#password#x#y##	Uploading data in Parking throttling mode
* RESET # # # user password	Reset all the configuration information after reboot
* RESTART # # # user password	Restart device
*GTAN#	Read all the current numbers, passwords
*GTAS#	Read current settings
! - User password	Remote upgrade instructions
003+passwordE/Wxxxx.xxxxN/Syyyy.yyyyRzzz.z	Fenced area set (in degrees minutes)