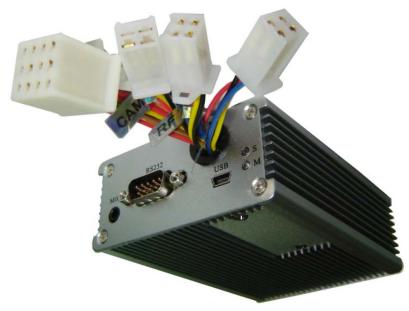


# **EDW-680T**

# **CAN Vehicle Locator User Manual**







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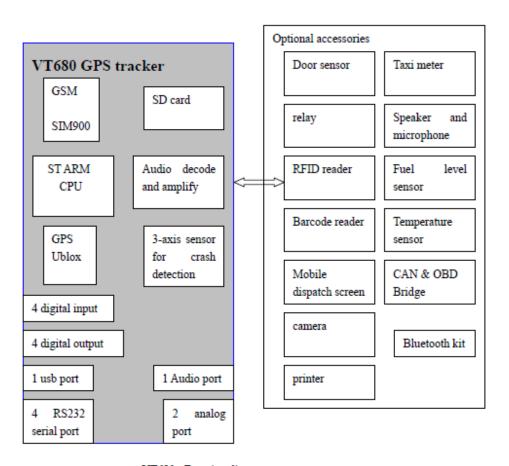
#### 1.Introduction

EDW-680T which come in a compact design is a powerful real time fleet management and vehicle tracking system using high sensitivity GPS and wireless GSM/GPRS communication. This self-contained and autonomous tracking device including GSM module, GPS receiver, Liion battery and Multi analog input is able to be used as observing the location of vehicle ,detecting temperature ,detecting fuel costing, working camera to take picture ,working with RFID to identify driver ,work with SD card to store journey info, working with printer to stored info on paper, working with meter to counter pulse working with OBDII/CAN bus to get vehicle status remotely .

Figure 1. EDW-680T appearance



# 2.EDW-680T overview



VT680 : Function diagram

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# Advanced feature of EDW-680T

Can work with RFID reader and tag to identify driver	
Can work with camera to take picture	
Can work with SD card to store journey info	FLITE PROCI 64 °E Memory Car Memory Car avaicas.wo.74em
Can work with printer to print info in SD card	
Can work with mobile data terminal to display text from server and map navigation	Section 1
Can work with hand free voice kits, can be used for phone call or voice broadcast	
Can work with CAN bus bridge/OBD bridge to read vehicle info, including RPM, fuel info, axle weight etc.	
Bluetooth kit	
Barcode reader	

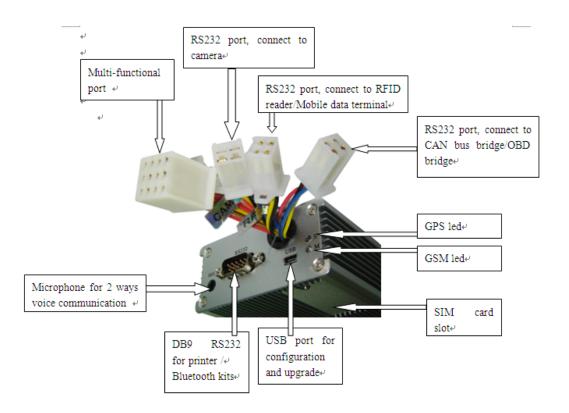
#### 2.1 EDW-680T unit

EDW-680T is designed in a compact and simple rugged Aluminum enclosure. At front panel, there are 3 LED indicators shows the status of the unit. And various ports for vehicle interface, COM port, SIM card slot, SD card slot on both side of the device.

## 2.2 Front panel:

Following picture shows the front panel:

Figure 3: Front panel

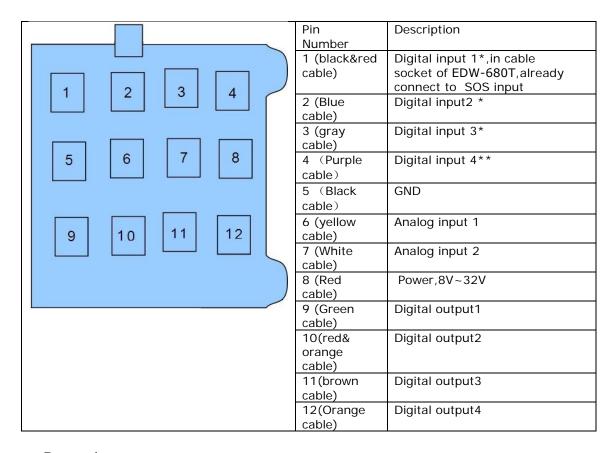


Name	Remarks
GPS led	GPS led, work with 3 status:
	In each 3s, lighting for 2.9s and dark for 0.1s: get

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	good GPS signal
	In each 3s, lighting for 1.5s and dark for 1.5s: no
	GPS signal
	In each 3s,keep dark: device is in off status
GSM led	GSM led, work with following 3 status:
	In each 3s, lighting for 2.9s and dark for 0.1s: get
	good GSM signal
	In each 3s, lighting for 1.5s and dark for 1.5s: no
	GSM signal
	In each 3s,keep dark: device is in off status
SIM card slot	Open the slot to place SIM card
Multi functional	Please refer following table for more info about
port	this port

## Multi functional port:



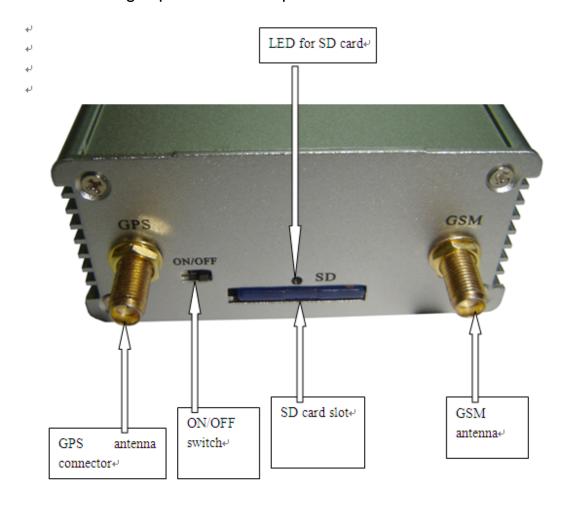
#### Remark:

\*: Digital input 1, Digital input2, Digital input 3 is negative trigger

\*\*: Digital input 4 is positive trigger, in which input4 is usually to connect with ignition or taxi meter for pulse counter

# 2.3 Back panel

# Following is picture of back panel:



Name	Remarks
LED for SD card	SD card led, working with following 3 status
	Keep lighting:no read/write SD card
	Blinking : read/write SD card
	Dark: no SD card in SD card slot

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## 2.8 Package contents

The basic package is including EDW-680T,GPS antenna, GSM/GPRS antenna, cables for multi function connector. The optional accessory including :relay, Mobile data terminal, CCD camera, RFID reader, temperature sensor, tank fuel level sensor, SD card, printer ,OBD bridge, CAN bridge, Bluetooth kit. For more details about optional accessory ,please refer to "Redview GPS AVL Accessory Guide"

# 3. Specification

### 3.1 Software Features

Tracking via SMS or GPRS (TCP/UDP) Quad band GSM module GSM/GPS integrated Support CAN/OBD bridge Bus Support printer With 4 serial RS232 port 2 analog port 4 digital input and 4 digital output Input pulse count(taxi meter count) Can work with camera to take picture Can work with RFID to identify driver Can work with mobile data terminal for text display Can work with SD card to store journey info Can work with Bluetooth to transfer data wireless Build-in 3 axis sensor Build-in flash Build-in battery

#### 3.2 Hardware Features

GSM/GPRS core

Simcom: SIM340D: 850/900/1680/1900MHz

GSM/GPRS services: Data, SMS/GPRS class B, class 10, TCP

UDP, IP

Physical characteristics

Dimensions(L\*W\*H): 85mm\*120mm\*30mm Weight:approx:200g(including build-in battery)

Temperature range

Operation: -20 Celsius degree to +80 Celsius degree

Power sources

Input voltage: 10~32 Volt DC regulated/Max 2A

Rechargeable Li-ion battery 850mAh

Antenna GSM/GPRS antenna GPS antenna

Indication: 3 LED indicator for GSM/GPRS, GPS status, SD card

status

# 3.3 Technical specification

# GSM/GPRS specification

Frequency	Simcom 340D:	
Bands	850/900/1680/1900Mhz	
GSM class	Small MS	
Transmit	Class 4(2w) at EGSM900 and GSM850	
power	Class 1(1W) at DCS1680 and PCS 1900	
GPRS	GPRS multi-slot class 10	
connectivity	GPRS mobile station class B	
Data GPRS	Data up/downlink transfer:	
	Max.85.6/42.8kbps	
	Coding scheme: cs-1,cs-2,cs-3 and cs-4	
	Supports the protocols PAP and CHAP	
	commonly used for PPP connections	
Data CSD	CSD transmission rates: 2.4,4.8,9.6,14.4 kbps	
SMS	SMS,MT,MO,CB,Text and PDU mode	
	Support transmission of SMS alternatively over	
	CSD or GPRS	
	User can choose preferred mode	
TCP/IP stack	Internet	
	services: TCP, UDP, HTTP, FTP, SMTP, POP3	
FAX	Group 3: Class 1, Class 2	
SIM	Supported SIM card: 3V	

# GPS module specification

General	Receive Frequency	1.57542Ghz +/-1.023Mhz
	GPS datum	WGS-84
SIRF star III chipset	Acquisition Rate	Conventional mode
		Cold/warm/hot start<
		42/38/1 sec (95% typical)
	Accuracy	Position: 10 meters CEP without
		SA

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	Velcocity: 0.1 meters/s, without SA Time: 1 ms sync to GPS time
Channel	24 channel GPS

#### 4. Function

EDW-680T is able to be powered from 8V to 32V DC. The VIN,GND and ignition line of the vehicle port should be connected with the vehicle to use car management. The VIN line should be connected to +12V or +24V DC of vehicle parts using 2A fuse, for example the vehicle battery. And also ,the SIM card capable of GSM/GPRS should be inserted before connect with power. After completing the connection, the user should change the configuration for its network operator and user's environment.

EDW-680T receives GPS data via GPS antenna after fixing GPS signal. And then the device sends the location data to control center according to its configuration which is able to be set by control center or user's SIM.

#### 4.1 Communication function

EDW-680T is able to be communicated by GSM and GPRS network using SMS and GPRS packet. The device can support both GSM and GPRS network, but the control center software is able to be distinguished by the application of SMS and IP packet.

Following communication mode is supported:

#### - SMS only mode:

When the control center does not have internet connection, it can be communicated with the device via SMS. To conduct it, the control center should connect with GSM modem.

#### GPRS only mode:

When the control center have internet connection, the device is communicated with the control center via GPRS packet at time interval. The time interval can be preset by customer thru GPRS/SMS/UART configuration cable.

#### - SMS and GPRS mode

When the control center connect with GSM modem and internet ,the control center communicates with the device through both GPRS packet and SMS at time interval. The time interval can be preset by customer thru GPRS/SMS/UART config cable.

#### 4.2 Alarm function

EDW-680T send alarm SMS/GPRS package to the predefined SMS number/IP address. The alarm package is able to be activated for following functions:

Journey start/end alarm

Over speed alarm

Panic alarm

Towing alarm

Geo-fence alarm

Over time driving alarm

Alarm which can preset by customer, such as over

temperature alarm

Crash alarm

## 4.3 Data logging and forward function

EDW-680T can work with 2 ways to data logging and forward. By flash:

When enter GPRS blind area, the position info, data from external sensor can be stored in flash and forwarded when GPRS re-establish.

By SD card:

The journey info, the picture info, the status info from CAN bus, the driver's info can be stored in SD card and can be get by GPRS, by Com port. Following info can be stored in SD card:

Driver's name

Driver's company

Driver's license code

Vehicle's license plate number

Vehicle ID info

Vehicle's position, speed, direction in each second

Vehicle's mileage

Time point when engine start

Time point when engine stop

Times which driver over speed driving

Times which driver over time working

Times which open the car door

Times which stop the car door

Picture taken from camera

Info from OBD bridge

For more about how EDW-680T store data in SD card, please refer: How EDW-680T work with SD card.

#### 4.4 RFID card identification function

EDW-680T can work with RFID reader to detect the RFID tag. The tag info will be compared with card database info. Once the current RFID tag can match the tag info in database, it will control the relay to turn on the car .If the current RFID tag cannot match the tag info in database ,it will control the relay to turn off the car . For more about how EDW-680T work with RFID reader, please refer to document named" how EDW-680T work with RFID reader"

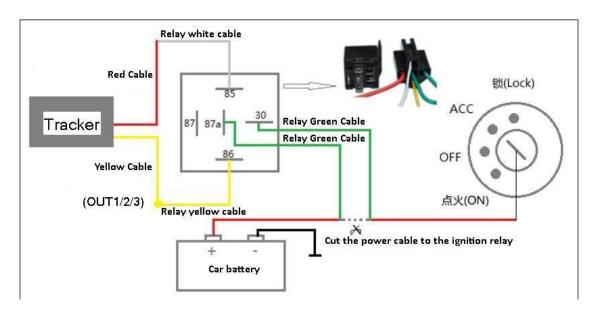
### 4.5 CCD camera picture taken function

The EDW-680T can work with CCD camera to get the picture info. The picture info will be send from tracker to server. And then the picture will be shown on server real time. For more about how EDW-680T work with RFID reader, please refer to document named" how EDW-680T work with CCD camera"

#### 4.6 Vehicle control function

The multi analog/digital output of EDW-680T make the device can control the vehicle, such as shutdown engine, close window and close door. Please don't use that function when the vehicle is in high speed . Following picture shows how EDW-680T work with relay

#### to control vehicle:



#### 4.8 Tank fuel detector function

Connected with external tank fuel level sensor, EDW-680T can detect the fuel level of tank and send it to control center via GPRS. For more info about this function, please refer to document "how to use tank fuel level sensor "

# 4.9 Temperature detector function

Connected with external temperature sensor, EDW-680T can detect the temperature and send it to control center via GPRS. For more info about this function, please refer to document

"how to use temperature sensor "

## 4.10 Pulse counter (meter calculate) function

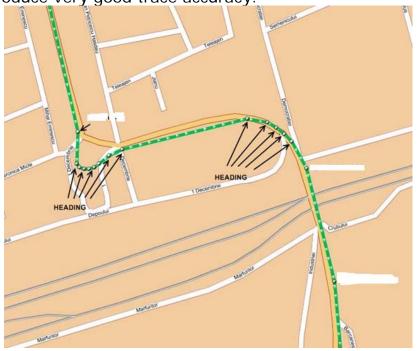
EDW-680T can work with vehicle's meter and calculate the

mileage according to pulse number and send it to server. For more about this function, please refer to document" HoEDW-680Twork with vehicle's meter to calculate mileage "

User can also reset the mileage function by SMS. For more info about how to reset the mileage report, please refer to sms command list part of this document.

## 4.11 Intelligent tracking method

EDW-680T can detect direction change.EDW-680T can send position data when the heading difference between two consecutive positions changed by a value larger than the configured value. In this way, the EDW-680T can produce very good trace accuracy.



The above picture shows that the EDW-680T will send position info when direction change.

To minimize the traffic cost, user can preset the degree of direction change .For more info about how to preset the value ,please refer to the SMS command list at the end of this user manual.

## 4.12 Moving and Park working method

EDW-680T can detect the moving and parking method. The park mode means the vehicle is not move and the engine is off. The moving mode means the vehicle is moving or the engine is on.

When in park mode, it will send the GPRS package in default time interval of 5 minutes.

When in moving mode, EDW-680T will send the GPRS package in default time interval of 30 seconds.

The time interval of park and moving mode can be preset by user. For more info about how to set time interval, please refer the 5.3.4 part of this document.

#### 4.13 Hand free voice communication

EDW-680T can work with external hand free voice communication to making call and receiving call. Once the buzz ring, the user can receive call by press SOS button. User can make call to preset telephone number by press SOS button.

#### 4.14 Audio broadcast

With external audio decoder and amplify, EDW-680T can broadcast audio message to reminder driver/passenger. Customer can configure the trigger condition of audio message and the content of audio message. This is widely used in bus tracking for stop reminder and taxi tracking for passenger reminder. For more about this feature, please refer" how EDW-680T work with audio broadcast feature".

## 4.15 Printer

EDW-680T is a GPS tracker, can work with SD card and printer, to record, sending and print dangerous driving behavior, including over speed driving, over time driving, harshing braking, etc. This is widely used in police enforcement

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assistance.

For more info ,please refer document named" how EDW-680T work with printer"

## 4.16 Read vehicle data from OBD bridge or CAN bridge

EDW-680T GPS tracker can connect with external OBD bridge Or CAN bridge to read vehicle info. The vehicle info include: vehicle speed, engine RPM, vehicle distance, fuel level, axle weight ,trailer weight.

For more about which vehicle brand CAN bridge can work with, please refer to "program and function lists for CAN bus bridge". For more about how EDW-680T GPS tracker work with CAN bus, please refer user manual named" how EDW-680T work with CAN bus.

#### 4.17 Crash detection

With build-in 3-axis accelerator sensor, EDW-680T can detect and record vehicle's crash, fast stop and fast start in SD card .The stored info can be also send via GPRS .For more about this feature, please refer " how EDW-680T work with crash detection".

#### 4.18 Bluetooth communication

With optional Bluetooth kits, EDW-680T can send info stored in SD card via Bluetooth. For more about this feature, please refer" how EDW-680T work with Bluetooth ".

#### 4.19 Mobile data terminal interface

With mobile data terminal, 2 ways text communication between host server and driver is available. The host server can also inform destination to driver and provide navigation. The driver can also reply the host server via text communication and voice communication.

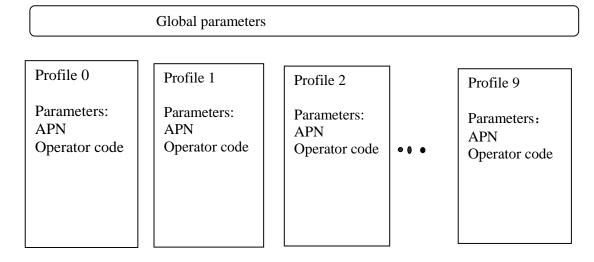
### 4.20 Anti GSM Jamming

When the EDW-680T detect GSM signal jammed, it will store the

all info in internal flash. At the same time, the internal buzz will be triggered and keep trigger until GSM signal recover. The internal buzzer can stop when receive SMS command of stop buzzer or GSM signal recover. For more about the stop buzzer SMS, please refer to Chapter 7:SMS command list.

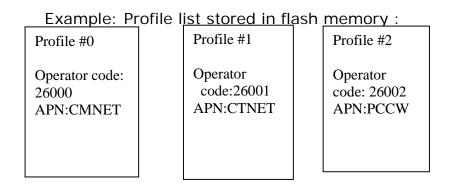
#### 4.21 Roaming

EDW-680T has 10 profiles saved in Flash memory of the module. Each profile has a list of parameters, which enables EDW-680T to operate in different modes, using different profiles. You are allowed to setup up to 10 different profiles. Global parameters contain settings that are common for all 10 profiles. This means that if you set EDW-680T to call to predefined number, you will be able to call it using any profile. Basic scheme of global parameters and profiles is shown below. Switching between profiles can be performed by profile switch depending on GSM operator code.

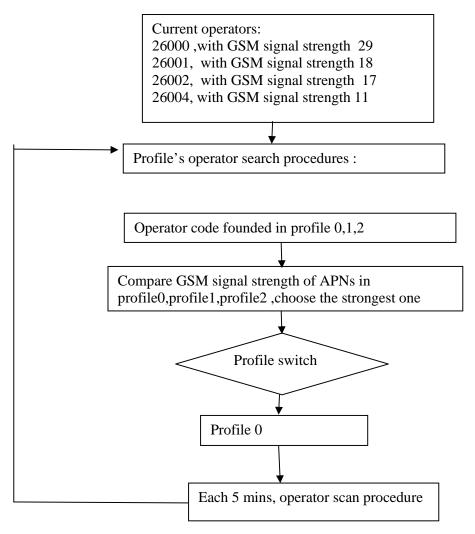


Profile Switch depending on GSM operator code and signal strength

Profile switching is mostly used in roaming applications ,to save communication cost . In the current operator lists, the module will choose the one which match the profile and with strongest GSM signal, as example below shows:



Example: Profile switching:



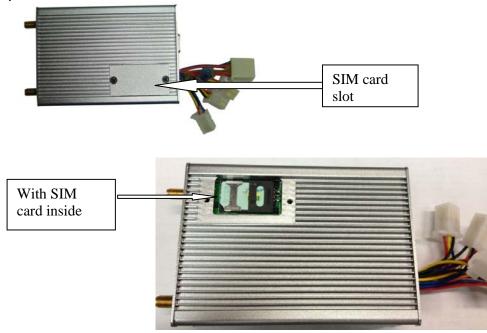
You may configure the profile list by SMS command. For more please refer part 7, SMS command list .

## 5. Get start

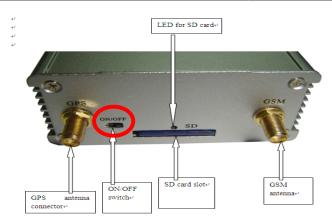
EDW-680T will only accept commands from a user with the correct password. Commands with wrong password are ignored. The default password is 000000.

## 5.1 Device installation

- 5.1.1 Connect the external GSM antenna and GPS antenna
- 5.1.2 Open the SIM card slot and then insert SIM card



## 5.1.3 Turn on the device



#### 5.1.4 Connect the device and the vehicle via the cables.

The Power and GND of the EDW-680T should be connected to the vehicle. If these signals are not connected to the vehicle, please use power supply or 12/24V battery.

#### 5.2 Basic SMS Commands

## 5.2.1 Position Report

To know the location of your EDW-680T, send an SMS or make a telephone call directly to EDW-680T and it will report its location by SMS. Command: W<password>,<000>

Notes: The default password is 000000.

Example:

SMS sent: W000000,000

SMS received:

Latitude = 22 32 36.63N Longitude = 114 04 57.37E, Speed =

2.6854Km/h, 2008-12-24,01:50

To get EDW-680T's position by another easier way:

- (a) Call EDW-680T using your mobile phone.
- (b) After listening to the ring for 10 20 seconds, hang up the phone.
- (c) Then after 20 second, your mobile phone will receive a position SMS.

## 5.2.2 Set Interval for Automatic Timed Report

Description: Automatic timed reports will be sent to your mobile phone according

to the time interval you set.

Command: W<password>,002,XXX

Notes: XXX is the interval in **minute**. If XXX=000 it will stop tracking

Example:

SMS sent: W000000,002,005 SMS received: Set Timer Ok/005

EDW-680T will then report its location by SMS every 5 minutes.

## 5.2.3 Stop Automatic Timed Report

Description: Automatic timed reports will stop once EDW-680T

receives stop command.

Command: W<password>,002,000

Example:

SMS sent: W000000,002,000 SMS received: Set Timer Ok/000

EDW-680T will stop automatic timed report

For more detailed SMS commands please go to Chapter 7 - SMS Command List

# 5.3 GPRS Settings by SMS

Tracking via GPRS, you should set IP, Port and APN for EDW-680T. Ensure that your SIM card in EDW-680T supports GPRS connection prior to setting.

#### 5.3.1 Set ID for EDW-680T

Command: W<password>,010,ID

Note: Tracker ID must not over 14 digits.

Example: W000000,010,123456789

EDW-680T will then reply with an SMS ('Set SIM

Ok/123456789') to confirm this setting.

#### 5.3.2 Set APN

Command: W<password>,011,APN,APN Name,APN Password Note: If no APN name and password required, input APN only.

Example: W000000,011,CMNET

EDW-680T will reply with an SMS (like 'Set APN Ok/CMNET') to confirm this

settina.

5.3.3 Set IP Address and Port

Command: W<password>,012,IP,PORT

Example: W000000,012,202.116.11.12,6800

EDW-680T will then reply an SMS ('Set IP Ok /202.116.11.12,6800') to

confirm this setting.

# 5.3.4 Set Time Interval for Sending GPRS Packet

Command: W<password>,014,time interval(in unit of 10 seconds)

(MOVE Mode: vibration)

Example: W000000,014,00003

EDW-680T will send GPRS packet every 30 seconds in Move

mode(vibration)

Command: W<password>,114,time interval(in unit of 10 seconds)

(PARK Mode: No vibration ) Example: W000000,114,00012

EDW-680T will send GPRS packet every 120 seconds in Park

mode(no vibration)

W000000,014,00000 is "STOP GPRS".

For more information regarding of bulk configuration by USB cable please refer to < GPS Tracker Parameter Editor>.

#### 5.4 How to use external sensor

- 5.4.1 Connect external sensor with EDW-680T
- 5.4.2 Control center send related command to tracker unit to set the parameter of using external sensor, such as time interval of taking photo of CCD camera.
- 5.4.3 Receiving GPRS package which include detection data.

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For more info about how to use external sensor, Please refer to "Redview GTP GPRS communication Protocol for GPS Tracker"

# 6 Troubleshooting

Problem: Unit will not turn on		
Possible Cause:	Resolution:	
Wiring was not connected properly	Check and make sure wiring	
	connection is in order.	
Battery needs charging	Recharge battery	
Problem: Unit will not respond to	SMS	
Possible Cause:	Resolution:	
GSM antenna was not installed	Make EDW-680T connected to	
properly	GSM network.	
GSM Network is slow	Wait for SMS. Some GSM networks	
	slow down during peak time or	
	when they have equipment	
	problems.	
Unit is sleeping	Cancel sleeping mode	
Wrong password in your SMS or	Write correct password or SMS	
wrong SMS format	format	
The SIM in EDW-680T has run	Replace or top up the SIM card	
out of credit		
No SIM card	Insert working SIM card. Check in	
	phone that the SIM can send SMS	
	message.	
SIM card has expired	Check in phone that the SIM can	
	send SMS message. Replace SIM	
	card if needed.	
SIM has PIN code set	Remove PIN code by inserting SIM	
	in you phone and deleting the	
	code.	
SIM is warped or damaged	Inspect SIM, clean the contacts. If	
	re-inserting does not help try	
	another to see if it will work.	
Roaming not enabled	If you are in a different country	

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	your SIM account must have roaming enabled.	
Problem: SMS received starts with 'Last'		
Possible Cause:	Resolution:	
Unit does not have clear view of the sky	Move the antenna of the unit to a location where the sky is visible.	
EDW-680T is in an inner place	Wait for the target to come out	
Battery is low	Recharge the unit and the GPS will start working.	

# **7 SMS Command List**

(Remarks: \*\*\*\*\* is user's password, and the default password is 000000)

Description	nmunication Configuration  Command ,parameter and return	Example
Set ID	W*****,010.ID	,
Set ID	7 7	W000000,010,123456789
	Parameter: ID: must not over 14 digitals	
0 1 4 5 11	Return: Set SIM OK/ID W*****,011,APN,APNName,APN Password	INCOCCO OLL CAMPET
Set APN	Parameter: APN: please contact SIM card supply for APN. The	W000000,011,CMNET
	default APN is CMNET	
	APN Name: if no APN name, just leave empty	
	APN password: if no APN password, just leave	
	empty The total length of APN,APN name and APN	
	password is not over 54 characters	
	Return: Set APN OK/APN ,APN name,APN password	
Set IP and	W*****,012,IP, Port	W000000,012,202.116.11.12,6800
port	Parameter: IP: xxx.xxx.xxx	W000000,012,202.110.11.12,0800
ροιτ	Port: [1,65534]	
	Return: Set IP OK/IP,port	
Set Time	W******.014.Time interval	W000000.014.00003
Interval for	Parameter: Time interval: XXXXX should be in five digitals.	11000000,011,00000
Sending	XXXXX=00000, to close this	
GPRS Packet	function:	
in move	XXXXX=00001~65535, time interval for	
Mode	sending GPRS packet and in unit of 10 seconds.	
	Return: Set TM OK/Time interval	
Set Time	W*****,114,Time interval	W000000,114,00012
Interval for	Parameter: Time interval XXXXX should be in five digitals and	
Sending	in unit of 10 seconds.	
GPRS Packet	XXXXX=00000, to close this function;	
in park	XXXXX=00001~65535, time interval for	
mode	sending GPRS packet and in unit of 10 seconds.	
Enable ping	W*****,200,Switch	W000000,200,1
	Parameter: Switch =0: disable ping command	
	Switch=1:enable ping command(default)	
Set DNS	W00000,012,DNS domain ,Port	W000000,012,xy.gicp.net,8000
domain	Parameter: DNS domain: max 16 characters	
	Port: [1,65534]	

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System Cor	nfiguration	
Description	Command ,parameter and return	Example
Change the	W*****,040,Prefer Time zone	W000000,040,-08
time in all	Parameter: Prefer Time zone: AXX, which is time differ to	
SMS	Greenwich Mean Time .	
feedback .	A: + or -	
	XX: 00~12	
	The default time zone in SMS is Greenwich Mean	
	time .	
Reboot the	W*****,991,RESET	
device in 10	Return: The device will reset in 10 mins	
mins	Note: The RESET should be in capital	
Restore all	W*****,991,199###	
default		
parameter		
Change	W*****,001,New password	W000000,001,123456
password	Parameter : new password, which is 6 digital	

Position & status & version reporting		
Description	Command , parameter and return	Example
Get current	W*****,000	W000000,000
position		
Set interval	W*****,002,time interval	W000000,002,001
for	Parameter: time interval of automatic report by SMS ,in unit of	
automatic	1 min,from 001~999.When time interval is	
timed report	000, will stop report position by SMS	
by SMS		
Get position	W*****,100	
with google		
map's		
linkage		
Get IMEI	W*****,607	
Get firmware	W*****,600,.	
version		

Application Configuration		
Description	Command ,parameter and return	Example
Configure the	W*****,003,switch,1,telephone number	W000000,003,1,1,008675526030340
1 <sup>st</sup> phone	Parameter: switch=0: disable the phone call feature	
number for	Switch=1:enable the phone call feature .when sos button is	
SOS button	pressed, will call preset telephone	
phone call	Telephone number: max 16 digitals	
Configure the	W*****,103,telephone number	W000000,103,008675526030442
2 <sup>nd</sup> phone	Parameter: telephone number: max 16 digitals	
number for		
SOS phone		
call		
Add country	W*****,502,*country code and district code XXX#	W000000,502,*86#
code, district	Parameter: country code and district code	
code to		
received		
telephone		
number when		
SOS button is		
pressed		
Add country,	W*****,524,*country code and district code#	W000000,524,*52#
district	Parameter: county code and district code	
number when		
send feedback		

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sms		
Extend	W*****,008,ABCDEFG###	W000000,008,1000100
Settings	Parameter: ABCDEFG	
	A=0, turn off the function of sending an SMS location report	
	to the authorized phone number when it makes a call	
	to EDW-680T.	
	A=1, turn on the function of sending an SMS location report to the authorized phone number when it makes a	
	call to EDW-680T.	
	B=0, location data of NMEA 0183 GPRMC will be interpreted	
	into normal text for easy reading.	
	For example:	
	Longitude = 114 degree - 04 cent -57.74 second	
	Latitude = 22 degree -32 cent -40.05 second <b>B=1</b> , location data complies with NMEA 0183 GPRMC	
	protocol.	
	For example:	
	\$GPRMC,072414.000,V,3114.3763,N,12131.3255,E,	
	0.00,0.00,050805,*00	
	C=0, turn off the function to automatically hang up an	
	incoming call.  C=1, turn on the function to automatically hang up an	
	incoming call after 4 - 5 rings.	
	<b>D=0</b> , Turn off the function of sending an SMS when EDW-680T	
	is turned on.	
	D=1, Turn on the function of sending an SMS to SOS	
	number when EDW-680T is turned on.	
	E=0, reserved	
	E=1, EDW-680T shuts down automatically when the powervoltage lower than 3V.	
	F=0, Turn off the alert when EDW-680T enters GPS blind area	
	F=1, Turn on the alert when EDW-680T enters GPS blind	
	area. SMS is to be sent to SOS number	
	G=0, LED light works normally	
	G=1, LED light stops flashing when EDW-680T working. ### is the ending character	
	(default value is: ABCDEFG=1000100 )	
Output control	W*****,020,port No., switch	W000000,020,1,1
	Parameter: Port No. =1, Out put 1	
	=2, Output2	
	=3, Output3	
	=4, Output4	
	=5, Output5 Switch =0, to close the output	
	=1, to open the output	
Delete all info	W*****,503	
store in flash		
Enable/disable	W*****,722,switch	W000000,722,1
motion sensor	Parameter: switch=0: enable(default) =1: disable	
Set degree of	= 1: disable W*****,036,Degree	W00000,036,090
direct change	Parameter : degree , from 30~270 degree	
tracking		
Set the text in	W*****,033,1,text	W000000,033,1,help me
SOS alarm	Parameter : text: no more than 8 characters	
SMS Set current	W*****,612	
Set current telephone	,U12	
number as the		
number to		
receive SOS		
alarm		
Set	W*****,431,sensitivity	W000000,431,1
The sensitivity of microphone	Parameter: sensitivity=[1,4] =1: mini sensible	
or microphone	= 1 . Hilli sensible =4: max sensible	

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Enable/disable	W*****,210, switch	T
voice	Parameter: switch=0: disable voice wiretapping	
wiretapping	=1:enable voice wiretapping	
Set threshold of entering sleep mode	W*****,026,threshold Parameter: threshold: when the device keep in park mode for more than preset threshold mins, enter sleep mode. In sleep mode, the GPS module will be turn off to save power  = [00,99] = 00:disable sleep mode	W000000,026,20
set time interval of automatically picture taken and picture quality which stored in SD card	W*****,760,quality picture,time interval Paramter: picture quality: =1 :maxim level picture quality, which is 640*480 =2 : middle level picture quality, which is 320*240 =3 :minimum level picture quality ,which is 160*120 Time interval: time interval of taking picture=[5,999],in units of minutes mini time interval of taking picture is 5 mins . =0: stop take picture automatically, default value	W000000,760,1,012
set time interval of sending picture and picture quality from tracker to server by GPRS	W*****,762,picture quality,time interval Parameters: picture quality: =1:maxim level picture quality, which is 640*480 =2: middle level picture quality, which is 320*240 =3:minimum level picture quality, which is 160*120 time interval: interval of taking picture and send picture to server via GPRS,=[10,999]. in units of minutes mini time interval of taking picture is 5 mins. =0: stop take picture automatically, default value	W000000,762,3,010
set end time of journey info stored in SD card.after this SMS is send, the data in 10 mins before this time will be print on paper	W*****,536,MMDD,HHMM parameters: MM : month	W000000,536,0618,1505
Enable pulse counter	W*****,640,switch parameter:  switch =1: Enable Speed sensor =0: Disable speed sensor	
Set parameter for speed sensor	W*****,662, pulse number in 1 kilometer Parameter: pulse number in 1 kilometer=[0,99999]	W000000,662,00400
Enable OBD diagnostic	W*****,050,switch Parameter: switch=0: disable OBD diagnostic =1:enable OBD diagnostic	W000000,050,1

Alerts Configuration		
Description	Command ,parameter and return	Example
Set	W*****,004,threshold	W000000,004,1
threshold of	Parameter: threshold: when internal battery's voltage is lower	
low power	than threshold, will send low power alert by both	
alert	SMS and GPRS	
	Threshold=0: disable this feature(default)	
	=1:send alert when battery voltage	
	lower than 3.3V	
	=2: send alert when battery voltage	
	lower than 3.4V	

Set threshold of overspeed alert	=3: send alert when battery voltage lower than 3.5V =4: send alert when battery voltage lower than 3.6V =5: send alert when battery voltage lower than 3.7V  W*****,005,threshold Parameter: threshold: when the vehicle speed higher than threshold; the device will send over speed alert by SMS and GPRS .The alert will be stored in SD card also. Threshold=00,disable this feature (default) =[01,20], the threshold is in unit of 10km/h	W000000,005,08 Explain: The threshold of over speed alert is 80km/h
Set geo- fence alert	W*****,006,radium of geo-fence alert Parameter: radium of fence, the point is current position Radium of geo-fence alert=00, disable =01, 30m =02, 50m =03, 100m =04, 200m =05, 300m =06, 500m =07, 1000m =08, 2000m	
Set threshold for motion alarm	W*****,041,threshold Parameter: threshold =0:Close motion alarm =1:in 30s,the vibration duration 0.1s =2: in the 30s,the vibration duration is 1s =3: in the 30s,the vibration duration is 10s  When the threshold is set to 2 and keep vibrating for 2s in unit of 30s,the device will send motion alarm by SMS and GPRS	
Enable buzz when GSM anti- jamming alarm	W******,042,switch Parameter: switch=1: enable buzz (default) =0: disable buzz In anti-jamming mode, when enable buzz command is set,the buzz will keep output until GSM signal recover or receive disable buzz command.	

Roaming profile setting		
Description	Command,parameter and return	Example
Configure profile	w*****,563,X,YYYYY,CCCCCCCCCCCCccccccccccccccccccc	w000000,7,46000,cmnet
Erase all profiles	W*****,544	w000000,544

