WhatsGPS

S288G
3G
(GPS+GPRS+GSM)

User Manual

1、Product Introduction

288G GPRS/GSM type GPS intelligent terminal (mobile user terminal) has built-in industrial grade GPRS/GSM communication module and the latest high-receiving sensitivity GPS positioning module. It adopts GPRS and SMS dual-mode communication mode. The terminal runs stably, reliably and fully functions. There are many interfaces, which can be applied to different fields such as leasing, mortgage, electric car, etc., and can also be customized according to different industries and different user needs.

2、Main features

1、Device has a small form factor, a built-in GPS antenna and a GSM antenna, and is easy to install;
2、Support UDP/TCP communication;
3、Support SMS parameter setting function and query function;
4、Support low power mode;
5、Support GPS data timing upload and naming function;

6、 Support base station assisted positioning function;

7、 Support remote power off and power off function;

8、 Support SMS power off and power off function;

9、 Support serial port upgrade function;

10、 Support blind zone data refill function;

11、 Support power off alarm function;

12、 Supports overspeed alarm function;

13、 Support mileage statistics function;

14、 Support SMS alarm notification function;

15、 Support SOS alarm function;

16、 Support fatigue driving alarm function;

17、 Supports GEO-fence in and out alarm functions;

18、 Support timeout parking alarm function

19、 Support mobile phone wap real-time car search, direct google map display;

3、 Detailed Specification

Parameter	
Working voltage	8VDC ~ 55VDC
Working current	50mA ~ 160mA
GSM module	Global
Protocol	UDP/TCP（customization）
GPS module	The latest TD chip

GPS sensitivity	-167dBm
GPS frequency	L1，1575.42 MHz，1561.10MHz
Channel	64 channel
Position accuracy	< 3M，2D RMS
Speed accuracy	0.1 M/S
Time accuracy	Synchronous GPS time
Default data	WGS-84
Re-acquire	Average 0.1S
Hot Start	Average 1S
Warm start	Average 10S
Cold start	Average 28S
Height limit	18,000m（60,000F）Max
Speed limit	515KM/S（1000 knots）Max
Acceleration limit	小于4g

Others	
Working temperature	-20°～70°C
Storage temperature	-30°～85°C
Device size	95mm × 50mm × 16mm
Temperature	5%～95%
Built-in battery	Less than 1 hours

4.1、 Power cable

Pic:
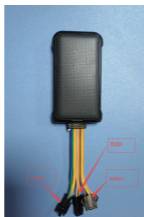
Pin description:

1.Power port

Pin	Color	Functions/Wiring method
1	Red	The power input is positive, the working voltage is 8VDC ~50VDC, and the positive of the car battery is connected;
2	Black	The power input is negative, and the negative of the car battery is connected; (If the relay needs to be connected, it is connected to the negative terminal of the relay white line)
3	Yellow	ACC;

2、Locking oil

Pin	Color	Functions
1	Orange	Lock the oil circuit positive, connect the relay yellow line
2	Grey	Lock the oil circuit negative, connect the relay white wire

3、咪头

Pin	Color	Functions
1	Orange	SOS+
2	Yellow	SOS—

Note: There may be minor adjustments to different batches of line color. Please refer to the actual product line color.

Preparation and operation of intelligent terminal before installation

Preparation before installation

1.Contact the relevant person in charge to open the platform login user name and password.

2.Open the SIM card for GPRS data service. At the same time, you must apply for a SIM package for your SIM card. You can apply for 10M or 20M or 50M. The minimum billing unit of the SIM card shall be in bytes (BYTE). The traffic used by the device for

normal operation: 5~8M for 1 minute monitoring, 10~12M for 30 seconds monitoring, and the flow rate unit is byte.

3.Record the relevant vehicle information such as the SIM card number and the vehicle license plate number to be installed, and use the open user name and password to log in to the online car or CS version of the client software to add information about the fleet, vehicle, etc. (Ps: system when loading The number must be 15 digits starting with 860013, such as: 860013512345678)

4.Before installing the GPS vehicle terminal on site, connect the GPS vehicle terminal and the complete set of accessories (the accessories to be installed to the customer) in the indoor test environment, and supply power to the GPS vehicle terminal with the s tabilized power supply to ensure the GPS vehicle terminal and all accessories. Can work normally.

4、Installation Precautions

4.1.Firstly check whether the vehicle power supply voltage is normal and whether its voltage range meets the power supply voltage range of the GPS vehicle terminal. When selecting the power supply, the power supply should try to select the main power

supply of the vehicle (the power cable directly connected to the battery);

4.2. When selecting the installation position of the GPS vehicle terminal, try to keep away from the car electronic equipment and other heat source devices, especially the wireless equipment and high-power electronic equipment, and install it firmly to avoid damage to the GPS vehicle terminal due to long-term large vibration;

4.3.The antenna is an all-weather product that can be installed in a suitable position inside and outside the car. Concealed installation is recommended to be installed on the back of the front panel plastic cover, the back of the trunk cover or other plastic products. Note that the GPS antenna must have a certain visible sky range, not by the metal casing, coated glass Etc.

4.4.Do not plug in the SIM card with power to avoid burning the card.

5、Installation

5.1、Warm tips

The power cable is recommended to be connected behind the car main switch or on the car battery line.

5.2、 Installation steps and parameter settings:

①Disassemble the screws and insert the SIM card into the SIM card holder on the circuit board. When taking the circuit board, please be careful not to touch the components on the circuit board as much as possible to avoid static damage to the circuit board.

②Turn on the backup battery switch. Under normal conditions, the circuit board starts to charge and the indicator light is on;

③Select the car power access point and connect the external input power to the terminal;

④After the lights are flashing normally, you can start the parameters of the SMS setting terminal. The specific setting instructions are as follows:

SS,*CMNET*,**,**,*IP*,*port*,*device system number *,*sim card number*,*123456*

*APN： Telecom carrier access address, such as CMNET;

*PORT： server port;

*IMEI number： device ID， 11-digit length number starting with 13;

*SMS service number: The service short signal will be applied when the terminal actively reports the

alarm. The national number must be added before the number. For example, the domestic 13512345678 should be *+8613512345678*. The service SMS number is the corresponding target number when the SMS message service is opened.

*SMS verification password: The factory default is 123456, which must be 6 digits;

EG:

S,*CMNET*,*28.60.185.172*,*9999*,*13512345002*, *+8613418776340*,*123456*

⑤After the terminal normally logs in to the platform, install the circuit board into the outer casing, fix the panel with screws, fix the terminal and antenna in the proper position, and arrange the cable, restore the car line and the removed part of the panel, and the installation is basically completed.

Terminal remote restart command: R, *PASSWORD* Time zone adjustment: Adjust_Time, time zone, *PASSWORD*

Working interval setting: SET+TIME=T1, T2, *123456* T1 indicates the ACC open transmission interval, and T2 indicates the ACC open transmission interval.

Set the SMS response number above to send the number of the SMS mobile phone.

Precautions:

The parameter input must be correct. Otherwise, the platform cannot be logged in normally. It is recommended to use the short message T command to query whether the parameters are correct, and check whether the terminal is online normally on the monitoring platform.

6、Standard accessories

6.1、Accessories

Standard: Power cord, Velcro, warranty card, warranty card receipt, certificate

7、General troubleshooting and maintenance knowledge

①1 Do not soak the device into the water.

②2 Keep the car battery fully charged and working properly.

③3 When the vehicle is under the building, tunnel or high building, it will affect the GPS signal and the reception of GPRS and CDMA communication network signals, causing the equipment to work abnormally; when the vehicle

drives out of the above area, the equipment will automatically recover.

④4 The power supply of the device is between 9V and 33V DC. The recommended working voltage is 12V or 24V. The installation should first determine whether the user's power system is within this range. Exceeding the maximum voltage of the terminal will damage the terminal.

⑤5 When the external temperature exceeds the normal working range of the terminal, the terminal should stop working.

⑥6 When the terminal is powered on, please do not plug or unplug the antenna to avoid damage to the terminal.

⑦7 In case of abnormality, please do not repair it yourself. The manufacturer is not responsible for the damage caused by connecting the non-original accessories or unplugging the connections between the components.

8、After sales service

①This product enjoys one year warranty from the date of sale. During the warranty period, the equipment is damaged due to non-human factors or product quality. Please contact Guangzhou Sward Technology Co., Ltd. for free maintenance.

②The equipment for the customer to remove the boot casing shall not be repaired.

③After the expiration of the warranty period, the product damage and failure caused by the use, but the cost of repair materials is required.

④Provide consulting services for purchase, use and installation for customers free of charge.

Trouble shooting

1. when the terminal displays offline or offline status in the background.

2. to confirm whether the GSM network is normal, please use your mobile phone to call the SIM card of the terminal Number, according to the prompt tone to determine the status of the terminal.

If there is no connection, the prompt terminal cannot be connected temporarily or is not in the service area. The area where the terminal is located may not cover the GSM signal or the signal is weak in the basement. Please drive to the area where there is a signal to use. If not connected, it indicates that the terminal balance is insufficient or the machine is stopped. Terminal SIM card is overdue, please recharge this SIM card.

If there is a connection and hear "toot... Du.... Du...." When the sound.

The terminal SIM card is installed correctly and has balance, please consult the operator of this card to open GPRS function; You can also use the mobile phone in the browser input you commonly used url, see whether can open the web page; If you can't open it, you don't have GPRS service. Please contact

3.If the device' GPS function is normal, but can not locate for a long time, please check whether the installation setup of device is correct:

1)Please make sure the GPS antenna face is up;

2)Please make sure there is no electromagnetic wave-absorbent object (metal) above the device, especially the thermal-protective coating on the windshield, it may affect the GPS reception of the device;

Warranty card

Maintenance record

Maintenance shop	
Sending date	
Fault description	
Maintenance situation	
IMEI number	
Maintenance person	

Maintenance record

Maintenance shop	
Sending date	
Fault description	
Maintenance situation	
IMEI number	
Maintenance person	

the operator to open it for you.

If there is no connection, the prompt terminal cannot be connected temporarily or is not in the service area. The area where the terminal is located may not cover the GSM signal or the signal is weak in the basement. Please drive to the area where there is a signal to use.

If not connected, it indicates that the terminal balance is insufficient or the machine is stopped.

First of all, check the LEDs' status. If it is not convenient to check that, please check the SIM card status :

1)Call the SIM card number of the device to check whether you can get through;

2)Check whether the vehicle is in no GSM area, such as basement;

3)Check the GSM/GPS disconnection area, whether it is all disconnected or few of them disconnected, to make sure whether it is the fault of operator's internet.

4)Check whether your SIM card charge is overdue;

5)Check whether the SIM card supports GPRS;

6)Check the parameter setup, whether the device IMEI number, GPRS sending interval is correct;