Gosafe®

G717 Cigar Lighter GPS Tracking Device

User Manual | Version 1.01

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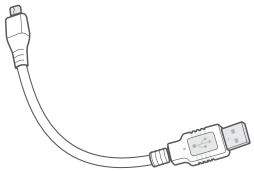
1.DEVICE INTRODUCTION

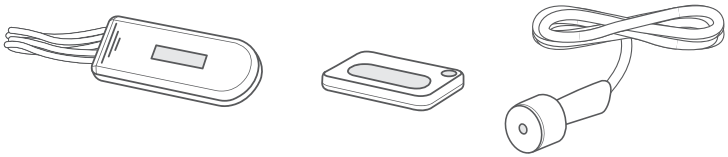
G717 is a simple tracking device which can be plugged into cigarette lighter port unlike anything else. Also it can fulfill dial-communication with its inside microphone and using vehicle FM radio as speaker. Just by connecting to the cigarette lighter port, you can know within one minute the exact location of your G717.

1.2 PHYSICAL APPERANCE

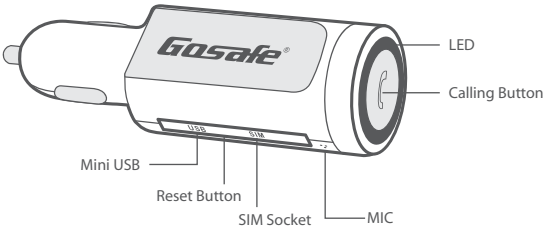
USB Configuration cable



Wireless relay set (optional)



1.3 FRONT VIEW



1.4 DEVICE FEATURES

- Gets power from cigarette lighter port.
- Quick Dial Buttons that allow the device to call up to 3 pre-determined numbers
- A sensitive microphone for using the cellular phone functions
- Using vehicle FM radio as speaker
- G-force sensor to detect car accident
- 2.4G wireless immobilize relay to keep your car safety
- LED's showing device status
- Quad-band modem for worldwide coverage, with a highly sensitive GPS module
- Secure online account access for device personalization and tracking
- Use the Geo-fence feature (also known as Safety Zone) to set defined perimeters around device and receive alert notifications

1.5 SCOPE OF THE FILE

This file is only used for the user, who uses the mobile phone to fulfill the tracking. Other operations like server are not included in this document.

1.6 SPECIFICATION

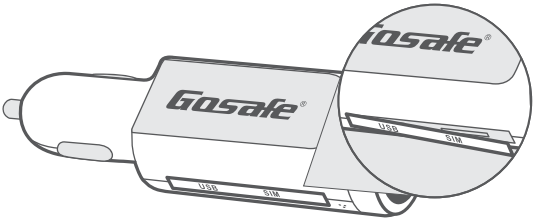
Physical	Size Weight	108(L)x32(W)x32(H)mm 55g
Environmental	Temperature Humidity	- 20 °C to + 60 °C 5-75%
Power	Voltage Battery Power Consumption	9-34V DC Li-Ion 3.7V 180mAh 70mA（Active） 500 uA(Sleep)
GSM	Antenna Modem	Internal 500 uA Quad - Band 850/900/1800/1900MHZ
GPS	Antenna Receiver Channels Position Accuracy Sensitivity	Internal uBlox NEO 6M 50 Parallel Channels Autonomous<2.5M -162dBm

1.7 TERMS AND ABBREVIATIONS

Abbreviation	Description
APN	Access Point Network
MCC	Mobile Country Code
MNC	Mobile Network Code
GPRS	General Packet Radio Service
GSM	Global System for Mobile Communications
TCP	Transmission Control Protocol
UDP	User Datagram Protocol
SMS	Short Message Service
IP	Internet Protocol
LBS	Location Based Service

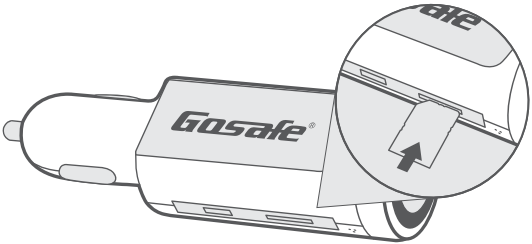
2.QUICK INSTALL INSTRUCTIONS

2.1 REMOVE SIM SOCKET COVER



2.2 INSERT SIM CARD

Insert SIM card into SIM socket..
Connect the device to cigarette lighter port. Wait until the blue LED always be ON (within 3 minutes).

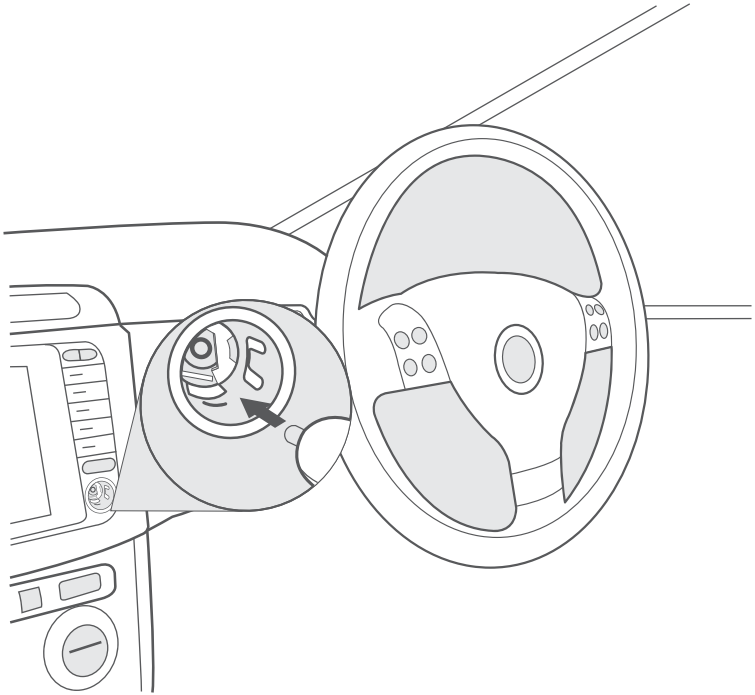


Note

Before starting, please prepare the SIM card. SIM card should be network card with call number display, voice call. If you also want to use the TCP/UDP server, please open GPRS internet function of the SIM card. Please do activate the SIM card, disable its PIN code function, and make sure SIM card has enough balance.

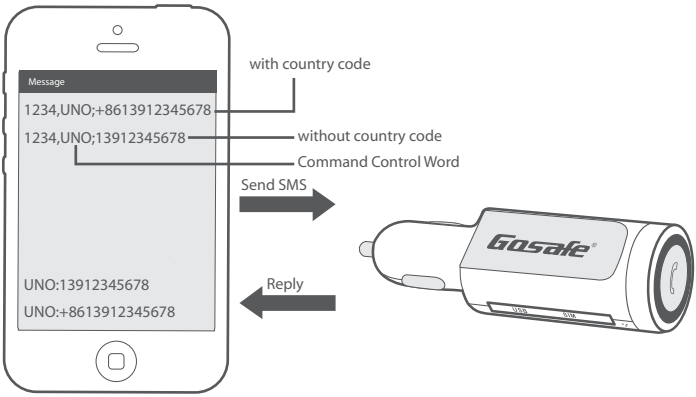
2.3 POWER ON

Connect the device to cigarette lighter port. Wait until the blue LED always be ON (within 3 minutes).



2.4 SET USER NO.

To set user No., you can use any mobile phone to send the following SMS command to the SIM card No. which is inside the device:



Note

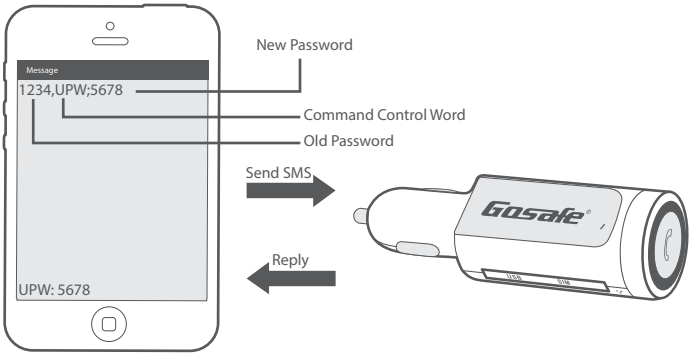
"86" is country code of China. If the device is not used for international roaming, you can also ignore the country code and just send the phone number like "1234,UNO;13912345678".

Device will send SMS to user each 30 min or alarm triggered. To protect device, if there is any error in this command, device will not send back any error warning.

Then user can fulfill other functions by sending user commands. After user sending command, device will reply one confirmation SMS back to user mobile phone.

2.5 MODIFY PASSWORD

To modify user password at the first usage is strongly suggested. To modify password, you can use user No. Send following SMS command to the SIM card No.:

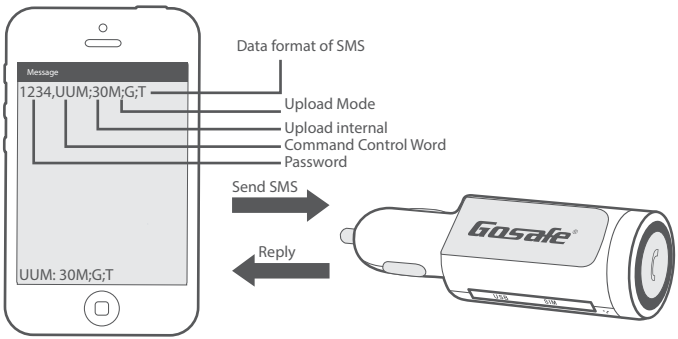


Note

Please memorize your New Password and wait for confirmation SMS for password modification from device.
Only if this command is sent by user No. the system can process this command.

2.6 SET USER WORK MODE

Device will send location information SMS or call to user by time set (default is 30 min). User can send following command to change the interval and data format.



Note:

upload internal: "M" is the time unit. This unit can be "S"(second)/ "M" (min)/
"H(hour). "30M" means upload interval is 30min. The range of this parameter is
(30~900S)/(15~59M)/(1~240H).

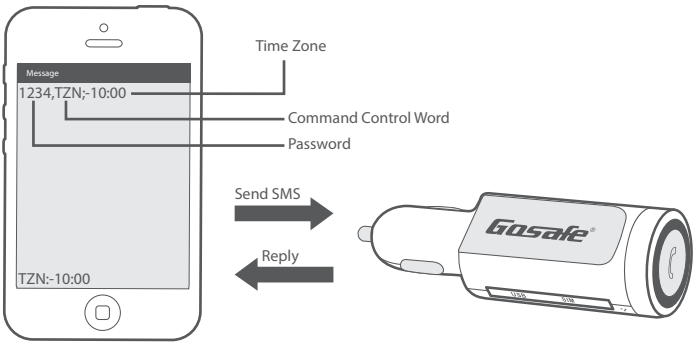
upload mode: "O": close unloading. Then device will not send SMS to user by time set."G": upload GPS data by interval set. when there is no GPS , upload LBS (base station) data."S": upload LBS (base station) data by interval set with hexadecimal format."L": monitoring. Device call to user by interval set.

Data format of SMS: "T": text
"W": hyper-link. In this format, device will send a web link.
Example of close upload: 1234,UUM;30M;O;W
Default :UUM0;30M;G;W

2.7 SET TIME ZONE

After setting the time zone, device will send the local time in the SMS , provided that GPS data is valid. Also you can set the daylight saving time and device will automatically shift the time. If there is no GPS, data device will not send the time.

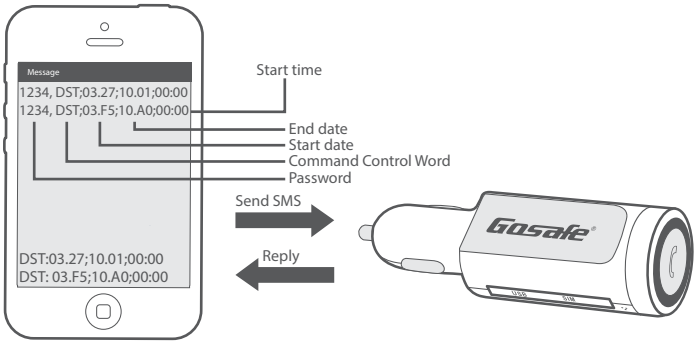
2.7.1 SET TIME ZONE COMMAND FORMAT



Note:

"-10:00" Time Zone. Enter the time zone parameter from -12:00 to 12:00.

2.7.2 SET DAYLIGHT SAVING TIME COMMAND FORMAT



Note:

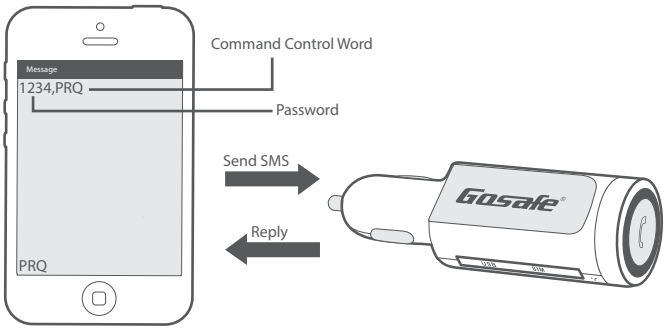
"03.27"/" 03.F5": Daylight saving time start date. You can use two formats. The first one is "month month. day day". "03.27" represents March 27. The second one is ""month month. week day of week". Week can be set "A B C D F". "A" for the first week, "B" for the second week, and so on, the fifth week or last week can use the "F" to represent.
Day of week can be set to "0 1 2……6". Beginning on Sunday ("0" represent Sunday) to Saturday ("6" represent Saturday). "03.F5" represents Friday on the last week of march.

"10.01"/" 10.A0": Daylight saving time start date. You can use two formats. Definition of format is same as parameter 3. "10.01" represents October 1st. "10.A0" represents Sunday on the first week of October

"00.00":start time, format is "hour hour: minute minute"."00:00" represents time is "00:00"

2.8 LOCATION POLL

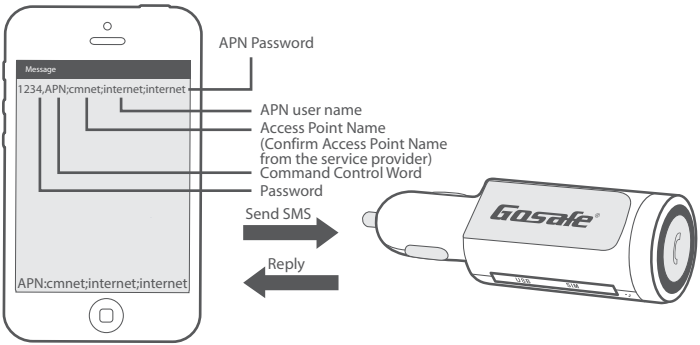
There are two ways to poll the location from the device.
1) By sending PQR SMS to device:



2) User mobile can call to the device number and hang up after first ring. The device will send back the GPS location to the user mobile.

2.9 SET APN

Only if the APN is set, you can goes to our web for tracking by using GPRS. Make sure your SIM card inside the device has turned on GPRS.

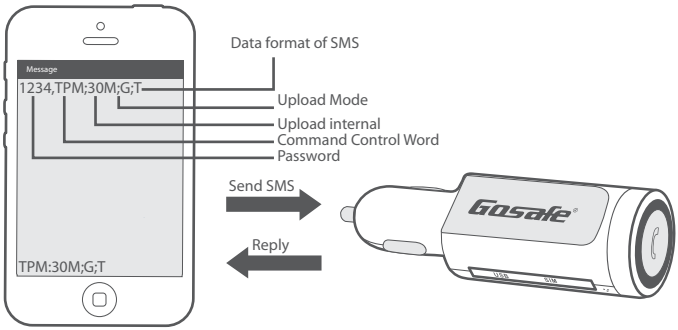


Note:

If you only set the APN without the username and password "APN:cmnet, APN username: empty, APN password: empty",
command is: 1234,APN;cmnet
Reply is: APN:cmnet;;

2.10 SET TCP SERVER WORK MODE

Device will send location information to TCP server by time set (default is 60S). User can send following command to change the interval and data format.



Note:

upload internal: "M" is the time unit. This unit can be "S"(second)/ "M" (min)/
"H(hour). "30M" means upload interval is 30min. The range of this parameter is
(5~900S)/(15~59M)/(1~240H).

upload mode: "O": close unloading. Then device will not send SMS to user by time set."G": upload GPS data by interval set. when there is no GPS , upload LBS (base station) data."S": upload LBS (base station) data by interval set with hexadecimal format. Data format of SMS "T": data format of SMS. Can set to:
"T": text
"B": binary

Example of close upload: 1234,TPM;30M;O;W
Default : TPM;60S;G;B

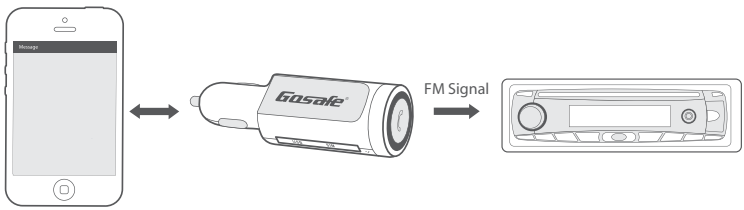
3 DUAL COMMUNICATION

Note:

This function is fulfilled by press “calling button”. There is a common definition for the button and buzzer. Please refer to “Trouble shooting-LED flashes and buzzer”. The maximum dial-communication time is 3 minutes.

3.1 FM RADIO SETTING

There is a microphone inside the device. And the speaker function is fulfilled by vehicle FM radio. Set a frequency parameter to device. Then when start Dual-communication, device will send voice information to radio on the frequency set. The drawing bellow shows the structure for dial-communication.



User mobile phone

Device G717
(microphone inside)

FM Radio
(work as speaker)

Use the following steps to set the FM radio.

3.1.1 SET FM RADIO MATCHING FREQUENCY

User must avoid the frequency that is used by other companies.
Set FM radio matching frequency parameter to device by using the following command.

Sr.	Description	Ctrl Word	Command	Reply	Remarks
1	Set FM radio matching frequency	FMF	1234,FMF;8600	FMF: 8600	"8600": Frequency. Parameter setting = real radio frequency /1000. If one want to use the frequency of 86MHz, then the, parameter should set to 8600 because parameter= 86,000,000/10000=8600.

3.1.2 MATCH BY BUTTON

Here are steps for the matching.

	Operation	Buzzer/sound	LED	Status
Step 1	Press "calling button"	Be (Buzzer on stimultaneously for button press)		
Step 2	Hold on for 1~2 seconds	Be -(last for 1 second)	Red LED always on	Operation wait status
Step 3	Hold on for 2~5 seconds	Be -, Be- each last for 1 second	Red LED flash frequency is 1 second	
Step 4	Release "calling button"		Red LED flash frequency is 1 second	
Step 5	Adjust FM radio to the matching frequency	A song rings when Match successfully	Red LED flash frequency is 1 second	Matching
Step 6	Press "calling button" to exist	No song	Blue LED always on	Standby status

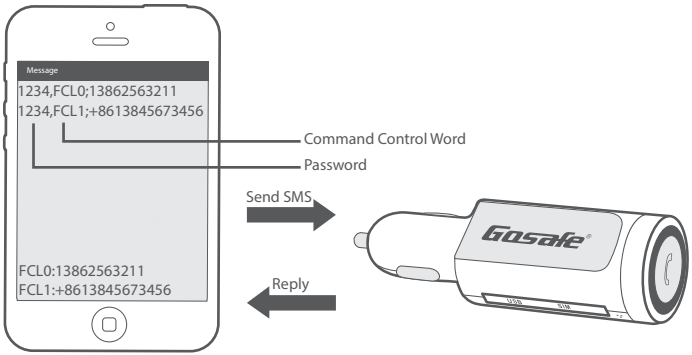
3.2 ANSWER A CALL

Following are the steps to answer a call:

	Operation	Buzzer/sound	LED	Status
Step 1	Phone calling in (Pickup phone / Hang up phone)	Be-, Be Be & Song rings	Red LED and blue LED flash alternatively	Phone calling in
Step 2	Pickup phone (turn on FM radio and set to matching frequency. Press “calling button for less then 1 second)		Blue LED fresh frequencyis 1 second	Dual - Communication
Step 3	Device stop dual - communication (press “calling button for less then 1 second)		Blue LED always on	Exist Dual - Communication (goes to standby status
Step 4	Calling phone stop dual-communcation	Be Be Be	Blue LED always on	Exist Dual - Communication (goes to standby status
Step 5	Hang up phone (press “calling button for more then 2 seconds)		Blue LED always on	Standby status

3.3 QUICK DIAL A CALL

You can save 3 quick dial phone numbers in the device by using the following command:



Note

"FCL0" is used for phone number 1 "FCL1" is for number 2 and "FCL2" is used for number 3.

"13862563211"/"+8613845673456": phone number. If device or phone number may be in roaming function, please add "+country code" in front of the number like Exp. "+8613845673456".

3.4 STEP TO DIAL A CALL

Following are the steps to dial a call;

	Operation	Buzzer/sound	LED	Status
Step 1	Turn on FM radio and set to the matching frequency. Press “calling button”	Be (buzzer on simultaneously for button press)		
Step 2	Hold on for 1~2 second	Be-(last for 1 second)	red LED always on	operation wait status
Step 3	release “calling button”		red LED always on	operation status
Step 4	Dial to first number: Press one time within 1 second Dial to second number: Press 2 times within 1.5 second Dial to third number: Press 3 times within 2 second (please dial out within 5S after button released. otherwise device exist will to standby status)	buzzer on simultaneously for each button press	Red LED and blue LED flash alternatively	Calling out
Step 5	Pick up		Blue LED fresh frequency is 1 second	Dual-communication
Step 6	Device stop dual-communication (press “calling button for less then 1 second”)		Blue LED always ON	Exist dual-communication (goes to Standby status)
Step 7	phone stop dual-communication or phone number does not exist	Be Be Be	Blue LED always ON	Exist dual-communication (goes to Standby status)

4. ALARM

When alarm triggered, device will send one SMS to user mobile phone with the location information. In default setting, device will send alarm twice and interval is 3 min. Then it will automatically clear alarm and send alarm again when new alarm will be triggered. You can use OEM software to set upload times and interval and clear alarm by receiving command (setting method is not mentioned in this document).
Here is a sample of moving alarm when GPS location is valid.
Device send alarm:
http://maps.google.com/maps?q=23.164472,113.428360&t=m&z=16
Alarm: Moving

COMMANDS FOR ALARMS

Sr.	Description	Ctrl Word	Command	Reply	Remarks
4.1	Power off alarm				When device is disconnected with the external power, this alarm will be triggered.
4.2	Enable/Disable move alarm	MOT	MOT;0 MOT;1	MOT:0 MOT:1	There is a movement sensor inside the device. When device status shift from stop to moving, it will send move alarm. You can enable / disable this alarm by disable the movement sensor. "1"/"0": enable/disable movement sensor. can set to "0"(disable)/ "1"(enable"). When disable the movement sensor, device status will always be stopped (No movement status)
4.3	Enable/Disable Over Speed Alarm and Set Parameter	SPO	SPO;0 SPO;1	SPO:0 SPO:1	"0"/"1": enable/disable alarm. Can set to "0"(disable)/ "1"(enable"). Default is disable over-speed alarm.
	Set the alert and alarm speed	SOP	SOP; 100;120	SOP: 100;120	"120": alarm speed. unit: KM/H. in this sample, "120" means alarm speed is 120KM/H. Default is "1234, SOP;80;100" which means alarm speed threshold is 100KM/H.

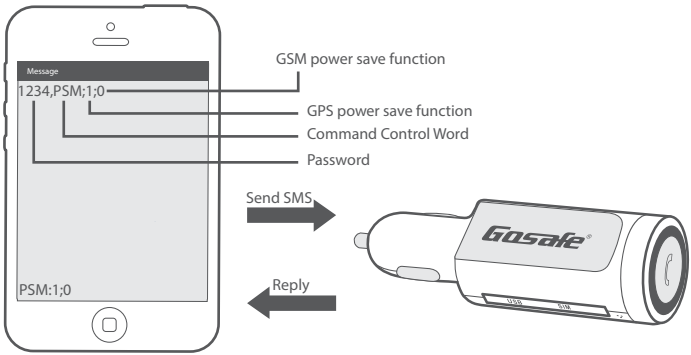
Sr.	Description	Ctrl Word	Command	Reply	Remarks
4.4	Anti-jamming alarm				Our device can test whether there is a jamming and send alarm to user after jamming is cleared . Then user can get the information that somebody is trying to steal the device or doing something bad.
4.5	Enable/Disable Goe-fence Alarm	GOF	GOF;0 GOF;87	GOF:0 GOF:87	There are 28 fences in total, from numbers 0 to 27. You can enable/disable alarm for different fence independently by sending the following command. “0”/”87”: enable/disable alarm for different geo-fence. Range:0~ FFFFFFF hexadecimal format. Each bit of this parameter represents one geo-fence. Bit0 represent geo-fence0 and bit1 represent geo-fence 1…... definition of each bit is: “0”：disable geo-fence “1”：enable geo-fence In this sample, user want to “enable alarm for fence 0&1&2&7”, which means bit0&bit1&bit2&bit7 are set to “1” (enable) and the other bits are set to “0”(disable). Shown in binary format is “0000 0000 0000 0000 0000 1000 0111” which equals to “0000087” in hexadecimal. The front data of “00000” can be ignored. Then the parameter 3 is set to “87”. Default :GOF;FFFFFFF (means enable all the goe-fence)
4.6	Clear alarm	UAC	UAC	UAC	In default, device will clear alarm after it sends twice for one alarm triggered.

5. POWER SAVING MODE SETTING

In order to save the power, device can power off GPS and GSM modem separately when device is standby.

Working process:

When the upload time set is up or an alarm is triggered, modems will wake up. The maximum wake up time is 6 minutes. If there is GSM signal, device uploads data. If there is no GSM signal, device will save the data in flash. When upload works are finished, device will power off the modems again. User can enable power save function by the following command.



Note

"1"(enable) and "0"(disable).

Only if the upload intervals for user and server are larger then 15 min, power save function can be used.

5.1 GPS POWER SAVE CONDITIONS

Because some functions are related to GPS location data, in order to fulfill GPS power save function, you need to close the following functions:

- Close mileage upload function (OEM configuration software or web setting using MGE command. default is open)
- Close geo-fence alarm function (user can set, please refer to part "4 Alarm". Default is open)
- Close over-speed alarm function (user can set, please refer to part "4 Alarm". Default is close)
- Close upload data when harsh turn occurred (OEM configurationsoftware or web setting using TRN command. Default is close).
- Close function of "upload data by distance". (OEM configuration software or web setting using DIS command. Default is close).
- Close upload data when speed changed occurred (OEM configuration software or web setting using SPD command. Default is close).

6. OTHER FUNCTIONS

COMMAND TABLE

Sr.	Description	Ctrl Word	Command	Reply	Remarks
6.1	Adjusting Volume	AGN	AGN;9;10	AGN:9;10	Please do not adjust the volume if there is no issue because some noise may be occurred. "9": microphone volume. Set this parameter to change the volume of the microphone. The lager number represents larger voice volume. Range: 0~18. "90": speaker volume. Set this parameter to change the volume of the speaker. The lager number represents larger voice volume. range: 0~16 default: AGN; 18;4
6.2	Change ring tone and FM match music	TON	TON;1;6	TON:1;6	When a phone is calling to device, device rings. When FM radio frequency matched during the setting process, device has a music come up. Use can change the ring tone and music by the command. "1": One number relate to one kind of ring tone.Range:0~8 "6":FM match music. One number relate to one kind of music.range: 0~18 Default: TON;1;6
6.3	Hotline number	HOT	HOT0; +8613912323456 or HOT0; 13912323456	HOT0:+8613912323456 or HOT0:13912323456	When hotline number calls to device, device will pick up automatically. This can forced the device to start dual-communication. You can set 15 hotline numbers and user number can be one of them. Please use OEM configuration or our web to set the numbers. When SOS alarm triggered, device will also send alarm to hotline numbers. Hotline number can also clear the SOS alarm by calling to device. User number can also fulfill this function by the following command. "+8613912345678": Call back number. "+" is country code mark while "86" is country code of China. If the device is not going to dial to international phone, you can also ignore the country code and just send command like "1234,CAL;13912345678". After device received this command, it will dial back to the number and start dual-communication.

Sr.	Description	Ctrl Word	Command	Reply	Remarks
6.4	Voice monitor	VOM	VOM; +8613912345678	VOM: +8613912345678	This function is used to start the voice monitor without knowing by the device holder or when device holder is in dangerous, it is batter to start voice monitor. There are two methods. "+8613912345678": Call back number. "+" is country code mark while "86" is country code of China. If the device is not going to dial to international phone, you can also ignore the country code and just send command like "1234,VOM;13912345678". After device received this command, it will dial back to the number of "para3" and only open microphone (do not open speaker). Then user starts to monitor.
	set voice monitor number				When voice monitor number calls to device, device will pick up automatically and only open microphone (do not open speaker). You can set 5 numbers. The voice monitor numbers you set cannot use dual-communication function because when these numbers call to device, device will pick up quickly and start monitor function. Please use OEM configuration or our web to set the numbers.
6.5	Query the phone conversation time	CTR	CTR	CTR:50;180	"50": total incoming call time. unit is seconds. This time will reset to "0" after it is up to 2^{32} seconds. Reply, "180": total incoming call time. Total outgoing call time. unit is seconds. This time will reset to "0" after it is up to 2^{32} seconds.
6.6	Wireless immobilizer				Only if you have the wireless relay, this function can be fulfilled.Please <install manual GSI-470> to install the immobilize relay on your vehicle.
	1) control the immobilizer output	IMM	IMM;1	IMM:1	"1": Immobilizer output control. This parameter can be: "0" : immobilize output OFF "1": immobilize output ON
	2) to check immobilizer connected.	RFS	RFS	RFS:1	"1": indicate whether there is immobilizer connected. This parameter can be: "0"(disconnect) or "1" (connected)

6.7 COMBINED COMMANDS

To save time and SMS resource on configuration, user can apply combine command, in which there is more than one command, to operate configuration. The combine command would begin with user password, which is followed by commands (commands order is flexible).

Pw	,	Command word	;	Parameter	;	Parameter	,	Command word	;	Parameter
		First command						Second Command		

If there is duplication of the same command in the same combine command, just the last piece of command would be processed; if there is error in the command, the command with error would be discarded, and device would only confirm setting of correct commands with no error warning. If all the commands are error, an alarm will be sent. All setting commands, except user No. setting command under the condition of the user number has never been changed, can be set by combine command.
Example：1234,UUM;30M;G;T,UPW;1234

7. STRUCTURES OF SMS FROM DEVICE

7.1NORMAL LOCATION SMS (TXT FORMAT)

(Located Successful)	
G717 V1.38	Device Name and Version
GPS 8/3	Satellites Connected &Time used for Location (secs)
UTC 12-06-26 12:24:20	Greenwich date and time(if time zoon is set, start head is "LTM")
N23.164536	Latitude in degree-minute format
E113.428459	Longitude in degree-minute format
SPD:10km/h 5	Device speed and Move Direction
TMP=35.6C	Temperature
PWR=12.2V	Power
(Located Unsuccessful) use LBS	
G717 V1.38	Device Name and Version
UTC 12-06-26 12:24:20	Greenwich date and time(if time zoon is set, start head is "LTM")
MCC=460	Mobile Country Code
MNC=1	Mobile Network Code
LAC=2503	Location Area Code
CID=962C	Cell Identity
TMP=35.6C	Temperature
PWR=12.2V	Power

7.2 NORMAL LOCATION SMS (HYPERLINK FORMAT)

(Located Successful) Google link	
G717 V1.38	Device Name and Version
http://maps.google.com/-maps?q=23.164375,113.428421&t=m&z=16	Google Map Link
TMP=35.1C	Temperature
PWR=12.2V	Power
(Located Unsuccessful) use LBS	
G717 V1.38	Device Name and Version
UTC 12-06-26 02:24:20	Greenwich date and time(if time zoon is set, start head is "LTM")
MCC=460	Mobile Country Code
MNC=1	Mobile Network Code
LAC=2503	Location Area Code
CID=962C	Cell Identity
TMP=30.6C	Temperature
PWR=12.2V	Power

7.3 ERROR COMMAND ALERT

Gosafe G717 V1.38
Error command!

7.4 ALARM

Alarm type	SMS received (hyperlink)	SMS received (TXT)	SMS received (LBS)
Power off	G717 V1.38 http://maps.google.com/maps?q=23.164472,113.428360&t=m&z=16 Alarm: Power Off	G717 V1.38 GPS 8/3 UTC 12-06-26 11:44:20 N23.164472 E113.428672 SPD:1km/h 0 Alarm: Power Off	G717 V1.38 UTC 12-06-26 01:47:08 MCC=460 MNC=0 LAC=2503 CID=962C Alarm: Power Off
move	G717 V1.38 http://maps.google.com/maps?q=23.164472,113.428360&t=m&z=16 Alarm: Moving	G717 V1.38 GPS 8/3 UTC 12-06-26 11:44:20 N23.164472 E113.428672 SPD:1km/h 0 Alarm: Moving	G717 V1.38 UTC 12-06-26 01:47:08 MCC=460 MNC=0 LAC=2503 CID=962C Alarm: Moving
over-speed	G717 V1.38 http://maps.google.com/maps?q=23.164472,113.428360&t=m&z=16 Alarm: Over Speed	G717 V1.38 GPS 9/3 UTC 12-06-08 12:24:20 N23.164614 E113.428672 SPD:100km/h 8 Alarm: Over Speed	G717 V1.38 UTC 12-06-26 01:47:08 MCC=460 MNC=0 LAC=2503 CID=962C Alarm: Over Speed
anti-jamming	G717 V1.38 http://maps.google.com/maps?q=23.164472,113.428360&t=m&z=16 Alarm: Anti-Jamming	G717 V1.38 GPS 9/3 UTC 12-06-08 12:24:20 N23.164614 E113.428672 SPD:10km/h 5 Alarm: Anti-Jamming	G717 V1.38 UTC 12-06-26 01:47:08 MCC=460 MNC=0 LAC=2503 CID=962C Alarm: Anti-Jamming
geo-fence	G717 V1.38 http://maps.google.com/maps?q=23.164472,113.428360&t=m&z=16 Alarm: Geo-Fence in	G717 V1.38 GPS 9/3 UTC 12-06-08 12:24:20 N23.164614 E113.428672 SPD:10km/h 5 Alarm: Geo-Fence in	G717 V1.38 MCC=460 MNC=0 LAC=2503 CID=962C Alarm: Geo-Fence in

8. LED FLASHES & RELEVANT DEVICE STATUS

There is an external LED light to reflect device status in G717.
When device is working correctly and can go online, device LED indication is shown as follow:

Status	LED Flashes
Standby status	Blue LED always being on (low luminance)
Operation wait status	Red LED always being on (low luminance)
Calling in or out	Blue and red LED fresh alternatively. Frequency is 1 second
During dual-communication	Blue LED fresh, Frequency is 1 second
Matching successfully	Red LED fresh, Frequency is 1 second

Device also uses red LED flashes to indicate relevant error if any of the following situations happens: Device Error, SIM card no balance, GSM network cannot register. User can count LED quick flashes then compare it to below table:

Error Details	LED Flashes	Solutions
GSM module Communication Error	1 flash	Power OFF then check GSMmodule power supply and communication
SIM card Error	2 flash	Power OFF then check whether SIM installation is good and PIN is disabled
Cannot register at GSM network	3 flash	To check whether SIM card is overdue and/or device in an area there is no GSM signal
GPS module Error	4 flash	Power OFF then check GPS module power supply and communication
SMS Sending Error	5 flash	To check whether there is SIM card SMS center setting error and/or SIM card is overdue
Can't use GPRS	6 flash	To check whether the APN is correct and SIM has GPRS function or not
TCP connection Error	7 flash	To check if the server is normal
Unknown Error	8 flash	Power OFF then Power ON, if there is still the error, please contacts us.

9. TROUBLE SHOOTING

Sr.	Description	Ctrl Word	Command	Reply	Remarks
9.1	Cannot receive reply SMS	SCN	SCN;+8613800138000	SCN:+8613800138000	when device power is on, it will search the SMS center number cannot search by device. Solution: send command to change the SMS center number. Make sure that the number is correct. "+" is country code mark while "86" is country code of China. This number must have country code.
9.2	GSM cannot online				
	1) Check GSM register	REG	REG	REG:1	"1": indicate weather GSM can register. This parameter can be: "0": no registered. Mobile Equipment is not searching new telecom provider. "1": registered local telecom provider "2": not registered. Mobile Equipment is searching new telecom provider. "3": register rejected "4": not registered. Unknown reason. "5": registered roaming. If reply is "0" or "2" or "3", please contact the tech support engineer.
	2) Check the signal quality	CSQ	CSQ	CSQ:1	para-"1": indicate the GPS signal quality. This parameter can be: "0": no signal "1": weak signal "2": not good signal "3"/"4": good signal "5": best signal Please contact to tech engineer if reply parameter is "0".
	3) Check TCP connect	TPS	TPS	TPS:1	"1": indicate weather TCP can connect. This parameter can be: "0": no connection "1": connect to fixed IP "2": connect to domain Please contact to tech engineer if reply parameter is "0".

Sr.	Description	Ctrl Word	Command	Reply	Remarks
9.3	Cannot start voice monitor				SIM card inside device do not have call number display function. Then device will not pickup automatically because it does not recognize the number. Please open this function.
9.4	No ring from FM radio when calling	FMS	FMS	FMS:ERROR	1) Please confirm that the FM radio setting is correct and matched to device. If during matching process, there is a song comes up. 2) If setting is correct, please send the command "ERROR": if parameter is "ERROR", please contact support engineer. If reply digit number, need to check other problems.

10. USER COMMAND LIST AND DEFAULT SETTING

ID	Command words	Explain	Default parameters	DFP command reset to default	Upgrade firmware reset to default
1	UNO	Set user phone number	empty	√	×
2	UPW	Set user password	UPW;1234	√	×
3	UUM	User upload mode	UUM0;30M;G;W UUM1;12H;G;W	√	×
4	UAC	User alarm clear	none	×	×
5	PRQ	Request location information	none	×	×
6	SCN	SMS center number	empty	×	×
7	APN	APN	none	×	√
8	CAL	Dual communication	none	×	×
9	VOM	Voice monitor	none	×	×
10	SPO	enable/disable over Speed	SPO;0	√	×
11	SOP	Speeding alarm parameters setting	SOP;80;100	√	×
12	MOT	Enable/ disable movement sensor	MOT;1	√	×
13	GOF	Enable /disable Geo-fence	GOF;FFFFFFF	√	×
14	TZN	Time zone setting	TZN;0:00	√	×
15	IMM	Immobilize output	IMM;0	√	×
16	FCL	Quick call list	empty	×	√
17	DST	Daylight-saving time setting	DST;0	√	×
18	FMF	FM frequency setting	8600	√	×
19	CTR	Query the phone conversation time	empty	×	×
20	CSQ	Query GSM signal quality	empty	×	×

ID	Command words	Explain	Default parameters	DFP command reset to default	Upgrade firmware reset to default
13	RFS	Query wireless 2.4G status	empty	×	×
12	ERS	Query error status	empty	×	×
14	FMS	Query FM status	empty	×	×
15	AGN	Audio volume setting	AGN;8;4	√	×
16	TON	Ringing tone setting/ FM match music	TON;1;6	√	×
15	REG	Query GSM register status	empty	×	×
16	TPS	Query TCP connection status	empty	×	×

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