

MEITRACK TC68S GPRS Protocol

Applicable Model: TC68S/TC68SG

Change History

File Name	MEITRACK TC68S GPRS Protocol	Created By	Kyle Lv
Project	TC68S/TC68SG	Creation Date	2017-08-25
		Update Date	2018-12-03
Subproject	GPRS Protocol	Total Pages	21
Version	V1.0	Confidential	Internal Documentation

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1 Command Format

1.1 GPRS Command Format

- GPRS command sent from the server to the tracker:
`@@<Data identifier><Data length>,<IMEI>,<Command type>,<Command><*Checksum>\r\n`
- GPRS command sent from the tracker to the server:
`$$<Data identifier><Data length>,<IMEI>,<Command type>,<Command><*Checksum>\r\n`

1.2 Tracker Command Format

\$\$<Data identifier><Data length>,<IMEI>,<Command type>,<Event code>,<(-)Latitude>,<(-)Longitude>,<Date and time>,<Positioning status>,<Number of satellites>,<GSM signal strength>,<Speed>,<Direction>,<Horizontal dilution of precision (HDOP)>,<Altitude>,<Mileage>,<Run time>,<Base station info>,<I/O port status>,<Analog input value>,<Assisted event info>,<Customized data>,<*Checksum>\r\n

Note:

- A comma (,) is used to separate data characters. The character type is the American Standard Code for Information Interchange (ASCII). (Hexadecimal is represented as 0x2C.)
- Symbols "<" and ">" will not be present in actual data, only for documentation purpose only.
- All multi-byte data complies with the following rule: High bytes are prior to low bytes.
- The size of a GPRS data packet is about 160 bytes.

Descriptions about GPRS packets from the tracker are as follows:

Parameter	Description	Example
@@	Indicates the GPRS data packet header sent from the server to the tracker. The header type is ASCII. (Hexadecimal is represented as 0x40.)	@@
\$\$	Indicates the GPRS data packet header sent from the tracker to the server. The header type is ASCII. (Hexadecimal is represented as 0x24.)	\$\$
Data identifier	Contains 1 byte. The type is the ASCII, and its value ranges from 0x41 to 0x7A.	Q
Data length	Indicates the length of characters from the first comma (,) to \r\n. Decimal. Example: \$\$<Data identifier><Data length>,<IMEI>,<Command type>,<Command><*Checksum>\r\n	25
IMEI	Indicates the tracker's IMEI number. The number type is ASCII. It has 15 digits generally.	353358017784062
Command type	Hexadecimal For details, see chapter 2 and chapter 3.	AAA
Event code	Decimal For details, see section 1.3 "Event Code."	1
Latitude (-)yy.dddddd	Unit: degree Decimal	22.756325 (indicates 22.756325°N)

	<p>When a minus (-) exists, the tracker is in the southern hemisphere. When no minus (-) exists, the tracker is in the northern hemisphere.</p> <p>yy indicates the degree.</p> <p>dddddd indicates the decimal part.</p>	-23.256438 (indicates 23.256438°S)
Longitude (-)xxx.dxxxx	<p>Unit: degree</p> <p>Decimal</p> <p>When a minus (-) exists, the tracker is in the western hemisphere. When no minus (-) exists, the tracker is in the eastern hemisphere.</p> <p>xxx indicates the degree.</p> <p>dddddd indicates the decimal part.</p>	<p>114.752146 (indicates 114.752146°E)</p> <p>-114.821453 (indicates 114.821453°W)</p>
Date and time yymmddHHMMSS	<p>yy indicates year.</p> <p>mm indicates month.</p> <p>dd indicates day.</p> <p>HH indicates hour.</p> <p>MM indicates minute.</p> <p>SS indicates second.</p> <p>Decimal</p>	<p>091221102631</p> <p>Indicates 21 December 2009, 10:26:31 am.</p>
Positioning status	<p>Indicates the GPS signal status.</p> <p>A = Valid</p> <p>V = Invalid</p>	<p>A</p> <p>The GPS is valid.</p>
Number of satellites	<p>Indicates the number of received GPS satellites.</p> <p>Decimal</p>	<p>5</p> <p>Five GPS satellites are received.</p>
GSM signal strength	<p>Value: 0–31</p> <p>Decimal</p>	<p>12</p> <p>The signal strength is 12.</p>
Speed	<p>Unit: km/h</p> <p>Decimal</p>	<p>58</p> <p>The speed is 58 km/h.</p>
Direction	<p>Indicates the driving direction. The unit is degree. When the value is 0, the direction is due north. The value ranges from 0 to 359.</p> <p>Decimal</p>	<p>45: indicates that the location is at northeast.</p> <p>90: indicates that the location is at due east.</p>
HDOP	<p>The value ranges from 0.5 to 99.9. The smaller the value is, the more the accuracy is.</p> <p>Decimal</p> <p>When the accuracy value is 0, the signal is invalid.</p> <p>0.5–1: Perfect</p> <p>2–3: Wonderful</p> <p>4–6: Good</p> <p>7–8: Medium</p> <p>9–20: Below average</p> <p>21–99.9: Poor</p>	<p>5</p> <p>The HDOP is 5.</p>

Altitude		Unit: meter Decimal	118
Mileage		Unit: meter Decimal Indicates the total mileage. The maximum value is 4294967295. If the value exceeds the maximum value, it will be automatically cleared.	564870
Run time		Unit: second Decimal Indicates the total time. The maximum value is 4294967295. If the value exceeds the maximum value, it will be automatically cleared.	2546321
Base station info		The base station information includes: MCC MNC LAC CI The MCC and MNC are decimal, while the LAC and CI are hexadecimal. Note: Base station information in an SMS is empty.	460 0 E166 A08B
I/O port status		Hexadecimal Status values of eight input ports and eight output ports: Bits 0–7 correspond to status of output ports 1–8. Bits 8–15 correspond to status of input ports 1–8.	0421 (hexadecimal) = 0000 0100 0010 0001
Analog input value		Separated by " ". Hexadecimal AD1 AD2 AD3 Battery analog External power analog Note: Analog input values in an SMS report are empty. Voltage formula of battery analog (AD4): $(AD4 \times 3.3 \times 2)/4096$ Voltage formula of external power supply (AD5): $(AD5 \times 3.3 \times 16)/4096$	123 456 235 1456 222 (Hexadecimal)
Assisted event info	Geo-fence number	32-bit unsigned Only available by GPRS event code 20 or 21.	02 00 00 00 (indicates geo-fence 2)
	System flag	Contains 4 bytes; hexadecimal (example: FEDCBA00) Descriptions about bits 0–31 are as follows: Bit 0: reserved. Bit 1: indicates the ACC status. When the value is 1 , the ACC is on; when the value is 0 , the ACC is off. Bit 2: indicates the anti-theft status. When the value is 1 , the device is in arming state; when the value is 0 , the device is disarming state. Bit 3–31: reserved. Only available by GPRS event code 35.	00000003 The ACC is on.

	Time spent on this trip	32-bit unsigned Unit: second Indicates the driving duration between engine start and engine stop. Value: 0–4294967295 Only available by GPRS event code 145.	E0 04 00 00 (indicates 1248 seconds)
	Vehicle theft trigger source	32-bit unsigned Trigger code of a vehicle theft event Flag generated by event 58	01 00 00 00
	Average driving speed	32-bit unsigned Unit: km/h Average driving speed = Mileage of a trip/Time Only available by GPRS event code 145.	7B 00 00 00 (indicates 123 km/h)
	Max speed per hour	32-bit unsigned Unit: km/h Only available by GPRS event code 145.	C9 00 00 00 (indicates the 201 km/h)
	Mileage of a trip	32-bit unsigned Unit: meter When data contains FF, the mileage of a trip does not exist. Only available by GPRS event code 145.	66 1F B8 F2 (indicates 4072152934m)
	Customized data	Reserved A separator still exists.	
	*	Separates commands from checksums. 1 byte and ASCII (Hexadecimal is represented as 0x2A)	*
	Checksum	2 bytes. The parameter indicates the sum of all data (excluding the checksum and ending mark). It is a hexadecimal character. Example: \$\$<Data identifier><Data length>,<IMEI>,<Command type>,<Command><*Checksum>\r\n	BE
	\r\n	2 bytes. The parameter is an ending character. The type is ASCII. (Hexadecimal value: 0x0d 0x0a)	\r\n

1.3 Event Code

Event Code	Event	Default SMS Header (At Most 16 Bytes)
1	SOS Pressed	SOS
17	Low Battery	Low Battery
18	Low External Battery	Low Ext-Battery
19	Speeding	Speeding
20	Enter Geo-fence	Enter Fence N (N means the number of the fence)

21	Exit Geo-fence	Exit Fence N (N means the number of the fence)
22	External Battery On	Tracker connected
23	External Battery Cut	Tracker removed
24	GPS Signal Lost	GPS Signal Lost
25	GPS Signal Recovery	GPS Recovery
26	Enter Sleep	Enter Sleep
27	Exit Sleep	Exit Sleep
29	Device Reboot	Power On
31	Heartbeat	/
32	Cornering	Cornering
33	Track By Distance	Distance
34	Reply Current (Passive)	Now
35	Track By Time Interval	Interval
36	Tow	Tow
41	Start Moving	Start Moving
42	Stop Moving	Stop Moving
56	Armed	Armed
57	Disarmed	Disarmed
58	Vehicle Theft	Vehicle Theft
70	Reject Incoming Call	/
72	Auto Answer Incoming Call	/
135	Fatigue Driving	Fatigue Driving
136	Enough Rest after Fatigue Driving	Enough Rest
138	Speed Recovery	Speed Recovery
139	Maintenance Notice	Maintenance
144	Ignition On	Ignition On
145	Ignition Off	Ignition Off

2 Command List

Command	Command Description
A10	Real-Time Location Query (GPRS)
A11	Setting a Heartbeat Packet Reporting Interval (GPRS)
A12	Tracking by Time Interval (GPRS)
A13	Setting the Cornering Report (GPRS)
A14	Tracking by Distance
A21	Setting GPRS Parameters
A22	Setting the DNS Server IP Address
A23	Setting the Standby GPRS Server
A70	Reading All Authorized Phone Numbers
A71	Setting Authorized Phone Numbers

A72	Setting Listen-in Phone Numbers
A73	Setting the Smart Sleep Mode
AAA	Automatic Event Report
AFF	Deleting a GPRS Event in the Buffer
B05	Setting a Geo-Fence
B06	Deleting a Geo-Fence
B07	Setting the Speeding Alert
B08	Setting the Towing Alert
B21	Setting the Anti-Theft Function
B31	Turning off the LED Indicator
B34	Setting a Log Interval
B35	Setting the SMS Time Zone
B36	Setting the GPRS Time Zone
B99	Setting Event Authorization
C02	Notifying the Tracker of Sending an SMS
C03	Setting a GPRS Event Transmission Mode
D65	Setting the Maintenance Mileage
D66	Setting Maintenance Time
E91	Reading Device's Firmware Version and SN
F01	Restarting the GSM Module
F02	Restarting the GPS Module
F08	Setting the Mileage and Run Time
F09	Deleting SMS/GPRS Cache Data
F11	Restoring Initial Settings

3 Command Details

3.1 Real-Time Location Query (GPRS) – A10

GPRS Sending	A10
GPRS Reply	<i>AAA,34,(-)Latitude,(-)Longitude,Date and time,Positioning status,Number of satellites,GSM signal strength,Speed,Direction,HDOP,Altitude,Mileage,Run time,Base station info,I/O port status,Analog input value</i>
Description	34: indicates the GPRS command event code.
Example	
GPRS Sending	@@Q25,353358017784062,A10*6A\r\n
GPRS Reply	\$\$Q128,353358017784062,AAA,34,22.543176,114.078448,100313093738,A,5,22,2,205,5,-14,0,60,0 0 10133 4110,0000,149 153 173 2707 914,*91\r\n

3.2 Setting a Heartbeat Packet Reporting Interval (GPRS) – A11

GPRS Sending	A11, <i>Interval</i>
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GPRS Reply	A11,OK
Description	<p>The heartbeat packet function is used to keep the Transmission Control Protocol (TCP) connection open when the interval of scheduled GPRS reporting is long.</p> <p>Interval = 0: function disabled (default).</p> <p>Interval = [1...65535]: function enabled. Unit: minute.</p> <p>The heartbeat function is available only in conjunction with deep sleep mode. When the device enters deep sleep mode, a heartbeat packet will be sent at the specified interval.</p> <p>A heartbeat packet is to confirm the device is online, and positioning data is invalid.</p>
Example	
GPRS Sending	@@S28,353358017784062,A11,10*FD\r\n
GPRS Reply	<p>\$\$S28,353358017784062,A11,OK*FE\r\n</p> <p><i>After the above command is run successfully, the tracker will send the following GPRS heartbeat packet to the platform every 10 minutes in sleep mode:</i></p> <p>\$\$a131,353358017784062,AAA,31,22.913458,114.083183,080229123628,V,9,23,21,83,1,18,1350,127,0 0 10133 4110,0000,169 181 184 2714 919,*60</p>

3.3 Tracking by Time Interval (GPRS) – A12

GPRS Sending	A12,Interval
GPRS Reply	A12,OK
Description	<p>Unit: x10 seconds</p> <p>Interval = 0: function disabled.</p> <p>The maximum time interval is 65535 x 10 seconds.</p> <p>6 x 10 seconds are recommended.</p>
Example	
GPRS Sending	@@V27,353358017784062,A12,6*D5\r\n
GPRS Reply	<p>\$\$V28,353358017784062,A12,OK*02\r\n</p> <p><i>After the above command is run successfully, the tracker will send the following GPRS data packet to the platform every 1 minute:</i></p> <p>\$\$W129,353358017784062,AAA,35,22.540113,114.076141,100313094354,A,5,22,1,17,4,4,129,0,435,0 0 10133 4110,0000,166 224 193 2704 916,*BE\r\n</p>

3.4 Setting the Cornering Report (GPRS) – A13

GPRS Sending	A13,Angle
GPRS Reply	A13,OK
Description	<p>When the driving angle exceeds the preset value, the tracker will send a GPRS data packet with location information to the server, which ensures a smoother route on the platform.</p> <p>Angle = 0: function disabled (default).</p> <p>Angle = [1...359]: function enabled. Recommended value: 30.</p>
Example	
GPRS Sending	@@X29,353358017784062,A13,120*37\r\n

GPRS Reply	<pre>\$\$X28,353358017784062,A13,OK*05\r\n</pre> <p>After the above command is run successfully, if the cornering angle is greater than 120 degree, the tracker will send the following GPRS data packet to the server:</p> <pre>\$\$Y129,353358017784062,AAA,32,22.540968,114.077455,100313094534,A,4,22,1,166,3,175,0,534,0 0 10133 4110,0000,141 138 159 2691 904,*D9\r\n</pre>
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3.5 Tracking by Distance – A14

GPRS Sending	A14,Distance
GPRS Reply	A14,OK
Description	<p>Distance = 0: function disabled (default).</p> <p>Distance = [1...65535]: function enabled. Unit: meter.</p> <p>Note: When both the GPRS time interval and distance tracking functions are enabled, the "first reach first report" rule will be applied. For example, set the time interval to 6 x 10 seconds and distance to 200 meters. If the road is clear, a distance data packet will be reported first; if there is heavy traffic on the road, a time interval data packet will be reported first. Then both the time interval and distance counters will be reset to 0.</p> <p>300 is recommended.</p>
Example	
GPRS Sending	@@D30,353358017784062,A14,1000*4A\r\n
GPRS Reply	<pre>\$\$D28,353358017784062,A14,OK*F2\r\n</pre> <p>After the above command is run successfully, if the driving distance reaches 1000m, the tracker will send a data packet to the server.</p> <pre>\$\$D131,353358017784062,AAA,33,22.547271,114.047405,080310080929,A,8,21,13,89,1,12,8525,561,0 0 10133 4110,0000,163 185 186 2712 939,*31\r\n</pre>

3.6 Setting GPRS Parameters – A21

GPRS Sending	A21,Connection mode,IP address,Port,APN,APN user name,APN password
GPRS Reply	A21,OK
Description	<p>Connection mode = 0: function disabled.</p> <p>Connection mode = 1: function enabled; use TCP/IP reporting mode.</p> <p>Connection mode = 2: function enabled; use UDP reporting mode.</p> <p>IP address: IP address or domain name. A maximum of 32 bytes are supported.</p> <p>Port: a maximum of 5 digits.</p> <p>APN/APN user name/APN password: a maximum of 32 bytes respectively.</p> <p>If no user name and password are required, leave them blank.</p>
Example	
GPRS Sending	@@H48,353358017784062,A21,1,67.203.13.26,8800,,,*C9
GPRS Reply	\$\$H28,353358017784062,A21,OK*F4\r\n

3.7 Setting the DNS Server IP Address – A22

GPRS Sending	<i>A22,DNS server IP address</i>
GPRS Reply	A22,OK
Description	An incorrect DNS server IP address may lead to GPRS data reporting failures after the A21 command is used. Use the A22 command to set the DNS server IP address (confirm the IP address with your domain name provider.). Then use the A21 command to reset the domain name. DNS server IP address: a maximum of 16 bytes
Example	
GPRS Sending	@@K38,353358017784062,A22,75.127.67.90*FD\r\n
GPRS Reply	\$\$K28,353358017784062,A22,OK*F8\r\n

3.8 Setting the Standby GPRS Server – A23

GPRS Sending	<i>A23,IP address,Port</i>
GPRS Reply	A23,OK
Description	IP address: a maximum of 32 bytes Port: a maximum of 5 digits When the tracker fails to send data to the active server set by command A21, data is automatically sent to the standby server to prevent data loss.
Example	
GPRS Sending	@@S43,353358017784062,A23,67.203.13.26,8800*F0
GPRS Reply	\$\$S28,353358017784062,A23,OK*01\r\n

3.9 Reading All Authorized Phone Numbers – A70

GPRS Sending	A70
GPRS Reply	<i>A70,SOS phone number 1,SOS phone number 2,SOS phone number 3,Listen-in phone number 1,Listen-in phone number 2</i>
Description	Read all authorized phone numbers.
Example	
GPRS Sending	@@T25, 353358017784062,A70*93\r\n
GPRS Reply	\$\$T85,353358017784062,A70,13811111111,13822222222,13833333333,13844444444,13855555555*21\r\n

3.10 Setting Authorized Phone Numbers – A71

GPRS Sending	<i>A71,Phone number 1,Phone number 2,Phone number 3</i>
GPRS Reply	A71,OK
Description	Phone number: A phone number has a maximum of 16 bytes. If no phone numbers are set, leave them blank. Phone numbers are empty by default.

	<p>Phone number 1: SOS phone number. When you call the tracker by using the phone number, you will receive SMS notification about the location, geo-fence alert and low power alert.</p> <p>When the SOS button is pressed, the tracker will dial phone numbers 1, 2, and 3 in sequence. The tracker stops dialing when a phone number responds.</p>
Example	
GPRS Sending	@@U61,353358017784062,A71,13811111111,13822222222,13833333333*7D\r\n
GPRS Reply	\$\$U28,353358017784062,A71,OK*06\r\n

3.11 Setting Listen-in Phone Numbers – A72

GPRS Sending	A72,Listen-in phone number 1,Listen-in phone number 2
GPRS Reply	A72,OK
Description	<p>When you call the tracker by using authorized listen-in phone numbers, the tracker will answer the call automatically and enter the listen-in state. In this way, the tracker will not make any sound.</p> <p>A maximum of two phone numbers can be set. Each phone number has a maximum of 16 digits. If no phone numbers are set, leave them blank. Phone numbers are empty by default.</p> <p>If no phone numbers are set and commas are remained, phone numbers set before will be deleted.</p>
Example	
GPRS Sending	@@V49,353358017784062,A72,13844444444,13855555555*55\r\n
GPRS Reply	\$\$V28,353358017784062,A72,OK*08\r\n

3.12 Setting the Smart Sleep Mode – A73

GPRS Sending	A73,Sleep level
GPRS Reply	A73,OK
Description	<p>Set the automatic smart sleep mode when the tracker is idle.</p> <p>Sleep level = 0: function disabled (default).</p> <p>Sleep level = 1: normal sleep. The GSM module always works, and the GPS module occasionally enters the sleep mode. The tracker works 25% longer in the normal sleep mode than that in the normal working mode. This mode is not recommended for short interval tracking; this will affect the route precision.</p> <p>Sleep level = 2: deep sleep. If no event is triggered after five minutes, the GPS module will stop working and the GSM module will enter sleep mode. Once an event is triggered, the GPS and GSM modules will be woken up. A heartbeat event will be triggered only in the deep sleep mode, which will be uploaded every one hour by default.</p> <p>Triggering events include: SOS alert, low internal/external battery, external power status, towing alert, ACC ON, (button) changes on any input port, vibration, incoming call, SMS receiving, call, and heartbeat event (The GPS is disabled during heartbeat</p>

	wakeup.). Note: In any condition, you can use an SMS or a GPRS command to disable the sleep mode, and then the tracker exits the sleep mode and returns back to the normal working mode.
Example	
GPRS Sending	@@W27,353358017784062,A73,2*D9\r\n
GPRS Reply	\$\$W28,353358017784062,A73,OK*0A\r\n

3.13 Automatic Event Report – AAA

GPRS Event Report	<i>AAA,Command type,(-)Latitude,(-)Longitude,Date and time,Positioning status,Number of satellites,GSM signal strength,Speed,Direction,HDOP,Altitude,Mileage,Run time,Base station info,I/O port status,Analog input value</i>
Description	When an event occurs, the tracker automatically reports the event to the server.
Example	
GPRS Reply	<i>When you press the SOS button, the tracker will send the following information to the server: \$\$G127,353358017784062,AAA,1,22.538169,114.075958,100313095653,A,3,21,4,46,5,581,0,148,0 0 10133 4172,0000,166 204 205 2709 878,*77\r\n</i>

3.14 Deleting a GPRS Event in the Buffer – AFF

GPRS Sending	<i>AFF,Number of deleted GPRS events</i>
GPRS Reply	Use the AFF command to clear the existing data when the GPRS connection mode is UDP. <i>AFF,Number of remaining cache,Command type, (-)Latitude,(-)Longitude,Data and time,Positioning status,Number of satellites,GSM signal strength,Speed,Direction,HDOP,Altitude,Mileage,Run time,Base station info,I/O port status,Analog input value</i>
Description	Number of deleted GPRS events: hexadecimal. In general, the number is 1. Number of remaining cache: indicates the number of events in the buffer; hexadecimal.
Example	
GPRS Sending	@@h27,353358017784062,AFF,1*0B\r\n
GPRS Reply	\$\$h28,353358017784062,AFF,OK*3D\r\n

3.15 Setting a Geo-Fence – B05

GPRS Sending	<i>B05,Geo-fence number,Latitude,Longitude,Radius,IN Geo-fence alert,OUT Geo-fence alert</i>
GPRS Reply	B05,OK
Description	Geo-fence number: 1–8. A maximum of eight geo-fences can be set. Latitude: latitude of the geo-fence center; decimal; accurate to 6 digits after the decimal

	<p>point. If there are only 4 digits after the decimal point, add two digits 0. Otherwise, the command cannot be used successfully.</p> <p>Longitude: longitude of the geo-fence center; decimal; accurate to 6 digits after the decimal point. If there are only 4 digits after the decimal point, add two digits 0. Otherwise, the command cannot be used successfully.</p> <p>Radius: The value ranges from 1 to 4294967295. The unit is meter.</p> <p>IN Geo-fence alert = 0: function disabled.</p> <p>IN Geo-fence alert = 1: function enabled.</p> <p>OUT Geo-fence alert = 0: function disabled.</p> <p>OUT Geo-fence alert = 1: function enabled.</p>
Example	
GPRS Sending	@@H57,353358017784062,B05,1,22.913191,114.079882,1000,0,1*96\r\n
GPRS Reply	<p>\$\$H28,353358017784062,B05,OK*F7\r\n</p> <p><i>When the tracker exits the geo-fence (latitude: 22.913191; longitude: 114.079882; radius: 1000m), it will send the following GPRS data packet to the server:</i></p> <p>\$\$J132,353358017784062,AAA,21,22.918046,114.089726,080229123812,A,10,22,12,32,1,21,6667,847,0 0 10133 4110,0000,124 181 183 2714 922,*5A\r\n</p>

3.16 Deleting a Geo-Fence – B06

GPRS Sending	B06, <i>Geo-fence number</i>
GPRS Reply	B06,OK
Description	Geo-fence number: 1–8. Only one geo-fence can be deleted each time by SMS or GPRS command.
Example	
GPRS Sending	@@J27,353358017784062,B06,1*C8\r\n
GPRS Reply	<p>\$\$J28,353358017784062,B06,OK*FA\r\n</p> <p><i>After the above command is run successfully, the first geo-fence will be deleted.</i></p>

3.17 Setting the Speeding Alert – B07

GPRS Sending	B07, <i>Driving speed</i>
GPRS Reply	B07,OK
Description	<p>Driving speed = 0: function disabled (default).</p> <p>Driving speed = [1...255]: function enabled. Unit: km/h. When the driving speed reaches the preset value, a speeding alert will be generated.</p>
Example	
GPRS Sending	@@P28,353358017784062,B07,60*05\r\n
GPRS Reply	<p>\$\$P28,353358017784062,B07,OK*01\r\n</p> <p><i>When the tracker driving speed reaches 60 km/h, it will send the following information to the server:</i></p> <p>\$\$k134,353358017784062,AAA,19,22.916675,114.088813,080229123718,A,10,22,61,31,1,21,</p>

	6635,395,460 0 10133 4110,0000,164 185 181 2712 915,*F7\r\n
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3.18 Setting the Towing Alert – B08

GPRS Sending	B08,Vibration duration
GPRS Reply	B08,OK
Description	<p>When the tracker's vibration duration exceeds the preset value, the tracker will send an alert to an authorized phone number or the server. Before using the towing alert function, use the A73 command to set the smart sleep level to 2 and use the B08 command to set the consecutive vibration duration. Otherwise, the towing alert function is unavailable.</p> <p>Vibration duration = 0: function disabled (default). Vibration duration = [1...255]: function enabled. Unit: second.</p>
Example	
GPRS Sending	@@I27,353358017784062,B08,3*CB\r\n
GPRS Reply	<p>\$\$I28,353358017784062,B08,OK*FB\r\n</p> <p><i>When the tracker vibrates for more than three consecutive seconds, it will send the following information to the server:</i></p> <p>\$\$K133,353358017784062,AAA,36,22.916675,114.088813,080229123718,A,10,22,61,3 1,1,21,6635,395,460 0 1013 4110,0000,164 185 181 2712 915,*A2</p>

3.19 Setting the Anti-Theft Function – B21

GPRS Sending	B21,Status
GPRS Reply	B21,OK
Description	<p>Status = 1: function enabled (default). Status = 0: function disabled.</p> <p>Note: The device can determine whether the engine is activated based on vehicle battery voltage. When the device is in arming state and the ACC is on, a vehicle theft alert will be generated, the buzzer will make a sound, and the device will call and send an SMS to the authorized phone numbers.</p>
Example	
GPRS Sending	@@C27,353358017784062,B21,1*BE\r\n
GPRS Reply	\$\$C28,353358017784062,B21,OK*F0\r\n

3.20 Turning off the LED Indicator – B31

GPRS Sending	B31,A
GPRS Reply	B31,OK

Description	When A is 00 , the tracker's indicator is turned on (default). You can query the device's running status according to the indicator status. When A is 10 , the tracker's indicator is turned off.
Example	
GPRS Sending	@@J28,353358017784062,B31,10*F7\r\n
GPRS Reply	\$\$J28,353358017784062,B31,OK*F8\r\n

3.21 Setting a Log Interval – B34

GPRS Sending	B34,Log interval
GPRS Reply	B34,OK
Description	Set the interval for recording data to device's memory when the GPS signal is valid. Recorded logs can only be read by GPSLog or Meitrack Manager software. Log interval = 0: function disabled (default). Log interval = [1...65535]: function enabled. Unit: second.
Example	
GPRS Sending	@@N28,353358017784062,B34,60*03\r\n
GPRS Reply	\$\$N28,353358017784062,B34,OK*FF\r\n

3.22 Setting the SMS Time Zone – B35

GPRS Sending	B35,SMS minute
GPRS Reply	B35,OK
Description	The default time zone of the tracker is GMT 0. You can run the B35 command to change the SMS report time zone to the local time zone. The SMS report time zone is different from the GPRS data packet time zone. When SMS minute is 0 , the time zone is GMT 0 . When SMS minute is a value ranging from -32768 to 32767, set time zones.
Example	
GPRS Sending	@@O29,353358017784062,B35,480*3C\r\n
GPRS Reply	\$\$O28,353358017784062,B35,OK*01\r\n After the above command is run successfully, the tracker SMS time zone is changed to UTC+08:00 (China time zone).

3.23 Setting the GPRS Time Zone – B36

GPRS Sending	B36,GPRS minute
GPRS Reply	B36,OK
Description	When GPRS minute is 0 , the time zone is GMT 0 (default). The MS02 can automatically detect the user time zone, so that the GPRS time zone does not need to be changed. Otherwise, inaccurate data occurs. When GPRS minute is a value ranging from -32768 to 32767, set time zones.

Example	
GPRS Sending	@@P29,353358017784062,B36,480*3E\r\n
GPRS Reply	\$\$P28,353358017784062,B36,OK*03\r\n After the above command is run successfully, the GPRS time zone is changed to UTC+08:00 (China time zone).

3.24 Setting Event Authorization – B99

GPRS Sending	B99,<SMS>/<0>,<Phone number location>/<Authorized phone number>,<Operation code>, [Event code 1].....[Event code n] B99,<CALL>/<1>,<Phone number location>/<Authorized phone number>,<Operation code>, [Event code 1].....[Event code n] B99,<GPRS>/<2>,<Operation code>, [Event code 1].....[Event code n] 0000,B99,<CAMERA>/<3>,<Operation code>, [Event code 1].....[Event code n] B99,<BUZZER>/<4>,<Operation code>, [Event code 1].....[Event code n].
GPRS Reply	B99,<SMS>/<0>,<Phone number location>,<Authorized phone number>, [Event code 1].....[Event code n] B99,<CALL>/<1>,<Phone number location>,<Authorized phone number>, [Event code 1].....[Event code n] B99,<GPRS>/<2>,[Event code 1].....[Event code n] B99,<CAMERA>/<3>,[Event code 1].....[Event code n] B99,<BUZZER>/<4>,[Event code 1].....[Event code n]
Description	Fields SMS, CALL, CAMERA, GPRS, and BUZZER can be presented by 0–4 in decimal string. Operation codes GET, SET, ADD, and DEL can be presented by 0–3 in decimal string. These characters are not case-sensitive. Note: Ensure that an authorized phone number is set by using the A71 command or the parameter configuration tool before the B99 command is used to set the SMS/CALL event code. The tracker compares the authorized phone number issued by B99 with the authorized phone number (excluding +86 characters) of the tracker. If the phone numbers are the same, the new event code will be stored. If the phone numbers are inconsistent, an error SMS will be sent.
Example	
GPRS Sending	@@B34,863070010825791,B99,gprs,get*BC\r\n
GPRS Reply	\$\$B33,863070010825791,B99,1,17,18*B5\r\n

3.25 Notifying the Tracker of Sending an SMS – C02

GPRS Sending	C02, X,Phone number,Content
GPRS Reply	C02,OK
Description	Used for the platform to notify the tracker of sending an SMS to a mobile phone. X = 0: in TEXT mode X = 1: in Unicode mode

	<p>Phone number: a maximum of 16 digits</p> <p>Content: a maximum of 140 characters</p> <p>After receiving the message, the tracker sends Content information to specified phone numbers.</p>
Example	
GPRS Sending	@@f47,353358017784062,C02,0,15360853789,Meitrack*B1\r\n
GPRS Reply	\$\$f28,353358017784062,C02,OK*13\r\n

3.26 Setting a GPRS Event Transmission Mode – C03

GPRS Sending	C03, X
GPRS Reply	C03,OK
Description	<p>X = 0: automatic event report (default)</p> <p>X = 1: Before another event can be transmitted, existing event reports need to be confirmed and deleted on the server by the AFF command. Select this mode when GPRS uses UDP.</p>
Example	
GPRS Sending	@@f27,353358017784062,C03,0*E1\r\n
GPRS Reply	\$\$f28,353358017784062,C03,OK*14\r\n

3.27 Setting the Maintenance Mileage – D65

GPRS Sending	D65, <i>Eight mileage points</i>
GPRS Reply	D65,OK
Description	<p>Send eight mileage points.</p> <p>Eight mileage points: (Current mileage + Time interval between maintenance services x 1), (Current mileage + Time interval between maintenance services x 2), (Current mileage + Time interval between maintenance services x 3), (Current mileage + Time interval between maintenance services x 4), (Current mileage + Time interval between maintenance services x 5), (Current mileage + Time interval between maintenance services x 6), (Current mileage + Time interval between maintenance services x 7), (Current mileage + Time interval between maintenance services x 8)</p>
Example	Set mileage points: 30000, 50000,60000,70000,80000,90000,100000,110000
GPRS Sending	@@V75,353358017784062,D65,30000,50000,60000,70000,80000,90000,100000,110000*EA\r\n
GPRS Reply	\$\$V28,353358017784062,D65,OK*OD\r\n

3.28 Setting Maintenance Time – D66

GPRS Sending	D66, <i>Eight time points</i>
GPRS Reply	D66,OK
Description	Send the time point of next eight times of maintenance services.

	Time point: days from January 1, 1990 to the next maintenance
Example	Set the time point. The next maintenance time is November 22, 2013. The first time point is 8726.
GPRS Sending	@@V65,353358017784062,D66,8726,8816,8906,8996,9086,9176,9266,9356*A2\r\n
GPRS Reply	\$\$V28,353358017784062,D66OK*E2\r\n

3.29 Reading Device's Firmware Version and SN – E91

GPRS Sending	E91
GPRS Reply	E91,Version,SN
Description	Read the tracker's firmware version and SN.
Example	
GPRS Sending	@@W25,353358017784062,E91*7D\r\n
GPRS Reply	\$\$W38,353358017784062,FWV1.00,12345678*1C\r\n

3.30 Restarting the GSM Module – F01

GPRS Sending	F01
GPRS Reply	F01,OK
Description	Restart the GSM module.
Example	
GPRS Sending	@@j25,353358017784062,F01*88\r\n
GPRS Reply	\$\$j28,353358017784062,F01,OK*19\r\n

3.31 Restarting the GPS Module – F02

GPRS Sending	F02
GPRS Reply	F02,OK
Description	Restart the GPS module.
Example	
GPRS Sending	@@Z25,353358017784062,F02*79\r\n
GPRS Reply	\$\$Z28,353358017784062,F02,OK*0A\r\n

3.32 Setting the Mileage and Run Time – F08

GPRS Sending	F08,Run time,Mileage
GPRS Reply	F08,OK
Description	Run time: <ul style="list-style-type: none"> ● Value range: [0...4294967295] ● Decimal ● Unit: second

	<p>If you do not want to set the parameter, leave it blank.</p> <p>Mileage:</p> <ul style="list-style-type: none"> ● Value range: [0...4294967295] ● Decimal ● Unit: meter <p>If you do not want to set the parameter, leave it blank.</p>
Example	
GPRS Sending	@@D40,353358017784062,F08,0,4825000*51\r\n
GPRS Reply	\$\$D28,353358017784062,F08,OK*FA\r\n

3.33 Deleting SMS/GPRS Cache Data – F09

GPRS Sending	F09, <i>Number</i>
GPRS Reply	F09,OK
Description	<p>If the number is 1, SMS cache data to be sent is deleted.</p> <p>If the number is 2, GPRS cache data to be sent is deleted.</p> <p>If the number is 3, SMS and GPRS cache data to be sent is deleted.</p>
Example	
GPRS Sending	@@E27,353358017784062,F09,1*CA\r\n
GPRS Reply	\$\$E28,353358017784062,F09,OK*FC\r\n

3.34 Restoring Initial Settings – F11

GPRS Sending	F11
GPRS Reply	F11,OK
Description	Restore initial settings except the SMS password.
Example	
GPRS Sending	@@[25,353358017784062,F11*7A\r\n
GPRS Reply	\$\$[28,353358017784062,F11,OK*0B\r\n

If you have any questions, do not hesitate to email us at info@meitrack.com.