MEITRACK T633L GPRS Protocol

Applicable Model: T633L

Change History

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Contents

1 T633L Command Format

1.1 GPRS Command Format

The GPRS command format is as follows:

GPRS command sent from the server to the tracker	*@@<Data identifier><Data length>,<IMEI>,<Parameter table No.><Command code>,<Command content><*Checksum>*\r\n
GPRS command sent from the tracker to the server	*$$<Data identifier><Data length>,<IMEI>,<Event code>,<Command content/Error code><*Checksum>*\r\n
Command description	

- **@@**: Indicates the packet header sent from the server to the tracker. Contains 2 characters.
- **Data identifier**: Contains 1 byte. The character type is hexadecimal, and its value ranges from **0x41** to **0x7A**. The data identifier in the reply command must be the same as that of the sending command. Otherwise, the command fails to be sent.
- A comma "," is used to separate data characters. The character type is the American Standard Code for Information Interchange (ASCII) (hexadecimal: 0x2C).
- **Data length**: Indicates the length of characters from the first separator "," to the ending character "\r\n" (including the first separator and the ending character). The character type is decimal.
  $$*<Data identifier><Data length>,<IMEI>,<Command type>,<Command content><*Checksum>*\r\n
- **IMEI**: Indicates the IMEI number of the GSM module. But the number stored on the flash memory can be changed.
- **Parameter table No.**: When the parameter value is **0** or not set, all parameter tables are modified. When the parameter value is **1**, the basic parameter table is modified. When the parameter value is **2**, roaming parameter table 1 is modified.
- **Command code**: Consists of letters and digits. For detail, see the chapter 3 "Command Details."
- **Command content**: no more than 1,024 bytes.
- *****: This is a fixed character. **Checksum**: Contains 2 hexadecimal characters; indicates the sum of characters from the packet header "$$" to the asterisk "*" (including the packet header and asterisk).
  $$*<Data identifier><Data length>,<IMEI>,<Command type>,<Command content><*Checksum>*\r\n
- **\r\n**: Contains 2 bytes. The parameter is an ending character. Hexadecimal: 0x0D 0x0A.
- **$$**: Indicates the packet header sent from the tracker to the server. Contains 2 bytes. Hexadecimal: 0x24 0x24.

If there are multiple commands, use the separator "," to separate them. If there is no command and the **Command content** parameter is required, the separator "," needs to be remained.

1.2 Tracker Command Format

The data format is as follows:

***$$<Data identifier><Data length>,<IMEI>,<Command type>,<Number of remaining cache records><Number of data packets><Data packet 1><Data packet 2><Data packet 3>…<Data packet N><*Checksum>*\r\n**

There is one or multiple data packets. When there are multiple data packets, the data is stored in the form of cache in the flash memory after the network is disconnected. After the network is connected normally, the tracker sends the cached data to the server in batches. When there is only one data packet, it means that this is a piece of real-

time data. The following is an example of data including only one data packet.

The command content in CCE format is as follows:

Parameter	Description	Example
@@ / $$	@@: Indicates the GPRS data packet header sent from the server to the tracker. The header type is ASCII (hexadecimal: 0x40). $$: Indicates the GPRS data packet header sent from the tracker to the server. The header type is ASCII (hexadecimal: 0x24).	Hexadecimal: 0x24 0x24 ASCII: $$
Data identifier	Contains 1 byte. The type is the ASCII, and its value ranges from **0x41** to **0x7A**.	Hexadecimal: 0x47 ASCII: G
Data length	Unit: byte. Type: decimal. Indicates the length of characters from the first separator "," to the ending character "\r\n" (including "," and "\r\n"), that is, the content underlined below. $$*<Data identifier><Data length>,<IMEI>,<Command type>,<Number of remaining cache records><Number of data packets><Data packet 1><Data packet 2><Data packet 3>…<Data packet N><*Checksum>*\r\n	Hexadecimal: 0x32 0x30 0x35 ASCII: 205
IMEI	Indicates the tracker's IMEI number. It has 15 digits generally.	Hexadecimal: 0x38 0x36 0x38 0x39 0x39 0x38 0x30 0x33 0x33 0x320x 34 0x32 0x33 0x33 0x36 ASCII: 868998033242336
Command type	Indicates the type of commands in the tracker protocol.	Hexadecimal: 0x43 0x43 0x45 ASCII: CCE
The following data is hexadecimal:		
Number of remaining cache records	Contains 4 bytes; hexadecimal; little-endian	0x00 0x00 0x00 0x00 The number of remaining cache records is 0.
Number of data packets	Contains 2 bytes; hexadecimal; little-endian	0x01 0x00 The entire message contains only data packet.
The following is the detailed data of each data packet which needs to be parsed by using hexadecimal numbers. This protocol only describes data including only one data packet.		
Length of the current data packet	Contains 2 bytes; hexadecimal; little-endian. Indicates the length of characters from the "total number of ID in the current data packet" parameter to the last parameter ID of the current data packet.	0xAB 0x00 The length of the current data packet is 171 bytes.
Total number of ID in the	Contains 2 bytes; hexadecimal; little-endian	0x2E 0x00

current data packet			There are 46 ID numbers in the data packet.
Number of 1-byte parameter ID		Value range: 0x00–0xFF The length of the following parameter ID numbers is 1 byte.	0x0E There are 14 parameter ID numbers whose length is 1 byte. 0x00: The current data packet does not contain any parameter ID number whose length is 1 byte.
Event code	Parameter ID: 0x01	For details, see the section 1.3 "Event Code." Data type: BYTE	0x23 The event code is 35.
GPS positioning status	Parameter ID: 0x05	0x01: The GPS positioning is valid. 0x00: The GPS positioning is invalid. Data type: BYTE	0x01 The GPS positioning is valid.
Number of satellites	Parameter ID: 0x06	Indicates the number of received GPS satellites. Data type: BYTE	0x0A The number of received GPS satellites is 10.
GSM signal strength	Parameter ID: 0x07	Value range: 0x00–0x31 Data type: BYTE	0x1C The GSM signal strength is 28.
Output port status	Parameter ID: 0x14	Indicates the status values of eight output ports. Bits 0–7 correspond to status of output ports 1–8. Data type: BYTE	0x00 Converted to binary digits: 0000 0000 Output ports 1–8 is inactive.
Geo-fence number	Parameter ID: 0x1B	The data is available only when the GPRS event code is 20 or 21. Data type: BYTE	0x00 No Enter Geo-fence or Exit Geo-fence alert is generated.
Temperature sensor No.	Parameter ID: 0x27	07 Indicates temperature sensor 7. The data is available only when the GPRS event code is 50 or 51. Data type: BYTE	
Clutch switch	Parameter ID: 0x93	01: The clutch pedal is pressed. 00: The clutch pedal is released. Upload data after reading it. Data type: BYTE	0x00 The clutch pedal is released.
Tachograph performance	Parameter ID: 0x94	01: performance analysis 00: normal performance Upload data after reading it. Data type: BYTE	0x00 The tachograph performance is normal.

Parking brake switch	Parameter ID: 0x95	01: Apply the brake. 00: Do not apply the brake. Upload data after reading it. Data type: BYTE	0x00 Do not apply the brake.
Cruise control system	Parameter ID: 0x96	01: The cruise control system is switched on. 00: The cruise control system is switched off. Upload data after reading it. Data type: BYTE	0x00 The cruise control system is switched off.
Accelerator pedal position (%)	Parameter ID: 0x97	1-byte hexadecimal data Upload data after reading it. Data type: BYTE	0x14 You press down 20% of the accelerator pedal of your vehicle.
CAN bus fuel level (%)	Parameter ID: 0x9D	1-byte hexadecimal data Upload data after reading it. Data type: BYTE	0x23 The fuel level left is 35%.
Actual engine torque (%)	Parameter ID: 0x9E	1-byte hexadecimal data Upload data after reading it. Data type: SINT8	0x12 The actual engine torque is 18%.
Actual engine torque at current speed (%)	Parameter ID: 0xA1	1-byte hexadecimal data Upload data after reading it. Data type: BYTE	0x12 The actual engine torque at current speed is 18%.
Number of 2-byte parameter ID		Value range: 0x00–0xFF The length of the following parameter ID numbers is 2 bytes.	0x10 There are 16 parameter ID numbers whose length is 2 bytes. 0x00: The current data packet does not contain any parameter ID number whose length is 2 bytes.
Speed	Parameter ID: 0x08	Unit: km/h; little-endian Data type: WORD	0x15 0x00 The driving speed is 21 km/h.
Driving direction	Parameter ID: 0x09	The unit is degree. When the parameter value is **0**, the direction is due north. The parameter value ranges from **0** to **359**. Little-endian. Data type: WORD	0x66 0x00 The driving direction is 102 degrees.
Horizontal dilution of precision (HDOP)	Parameter ID: 0x0A	Value range: 5–999 Unit: 1/10; little-endian Data type: WORD	0x13 0x00 The HDOP is 1.9.
Altitude	Parameter	Unit: meter; little-endian	0x2D 0x00

	ID: 0x0B	Data type: SINT16	The altitude is 45 meters.
AD1	Parameter ID: 0x16	Analog <AD1>; little-endian Voltage formula of analog: AD1/100 Data type: WORD	0x00 0x00 Convert the digits to decimal digits: 0 0/100 = 0 The AD1 voltage is 3.95 V.
AD2	Parameter ID: 0x17	Analog <AD2>; little-endian Voltage formula of analog: AD2/100 Data type: WORD	0x00 0x00 Convert the digits to decimal digits: 0 0/100 = 0 The AD2 voltage is 3.95 V.
AD3	Parameter ID: 0x18	Analog <AD3>; little-endian Voltage formula of analog: AD3/100 Data type: WORD	0x00 0x00 Convert the digits to decimal digits: 0 0/100 = 0 The AD3 voltage is 3.95 V.
AD4	Parameter ID: 0x19	Battery analog <AD4>; little-endian Voltage formula of analog: AD4/100 When the battery power is full, the voltage is 4.2 V. When the battery power is empty, the voltage is 3.4 V. Formula of remaining battery power (%): (AD4/100-3.4)/0.8 x 100% Data type: WORD	0xA0 0x01 Convert the digits to decimal digits: 416 416/100 = 4.16 The voltage is 4.16V. The remaining battery power is 99%.
AD5	Parameter ID: 0x1A	External power analog <AD5>; little-endian Voltage formula of analog: AD5/100 Note: When the external power supply is disconnected, the voltage of AD5 is about 2 V instead of 0. Data type: WORD	0x51 0x05 Convert the digits to decimal digits: 1366 1366/100 = 13.66 The voltage of the external power supply is 13.66 V.
Fuel level (%)	Parameter ID: 0x29	Little-endian. After the digits are converted to decimal digits, the converted value divided by 10000 is the actual value. Data type: WORD	0x7A 0x0D Convert the digits to decimal digits: 3450 The fuel level is 34.50%.
AD6	Parameter ID: 0x41	Analog <AD6>; little-endian Voltage formula of analog: AD6/100 Data type: WORD	0x00 0x00 Convert the digits to decimal digits: 0 0/100 = 0 The AD6 voltage is 0.
Vehicle speed (based on the tachograph) (km/h)	Parameter ID: 0x91	2-byte hexadecimal data Upload data after reading it. Data type: WORD	0x15 0x00 Convert the digits to decimal digits: 21 The vehicle speed is 21

			km/h.
Vehicle speed (based on the wheel) (km/h)	Parameter ID: 0x92	2-byte hexadecimal data Upload data after reading it. Data type: WORD	0x15 0x00 Convert the digits to decimal digits: 21 The vehicle speed is 21 km/h.
Engine speed (rpm)	Parameter ID: 0x99	2-byte hexadecimal data Upload data after reading it. Data type: WORD	0x12 0x04 Convert the digits to decimal digits: 1042 The engine rotational speed is 1042 rpm.
Engine coolant temperature (deg C)	Parameter ID: 0x9C	2-byte hexadecimal data Upload data after reading it. Data type: SINT16	0x32 0x00 Convert the digits to decimal digits: 50 The engine coolant temperature is 50°C.
Ambient air temperature (deg C)	Parameter ID: 0x9F	2-byte hexadecimal data Upload data after reading it. Data type: SINT16	0x28 0x00 Convert the digits to decimal digits: 40 The ambient air temperature is 40°C.
Number of 4-byte parameter ID		Value range: 0x00–0xFF The length of the following parameter ID numbers is 4 bytes.	0x0F There are 15 parameter ID numbers whose length is 4 bytes. 0x00: The current data packet does not contain any parameter ID number whose length is 2 bytes.
Latitude	Parameter ID: 0x02	Unit: millionth of a degree; little-endian Data type: SINT32	0xE6 0x87 0x57 0x01 Convert the digits to decimal digits: 22513638 The latitude is 22.513638 degrees.
Longitude	Parameter ID: 0x03	Unit: millionth of a degree; little-endian Data type: SINT32	0XE6 0x5F 0xCC 0x06 Convert the digits to decimal digits: 114057190 The longitude is 114.057190 degrees.
Date and time	Parameter ID: 0x04	Contains 4 bytes; little-endian Unit: second Starting time: 1 January, 2000, 00:00:00 am. Data type: DWORD	0xEA 0x8D 0xA7 0x22 Convert the digits to decimal digits: 581406186

Mileage	Parameter ID: 0x0C	Indicates the total mileage. Unit: meter; little-endian Data type: DWORD	0x56 0x05 0x00 0x00 Convert the digits to decimal digits: 1366 The total mileage is 1366 meters.
Run time	Parameter ID: 0x0D	Indicates the total time. Unit: second; little-endian Data type: DWORD	0x96 0x1B 0x00 0x00 Convert the digits to decimal digits: 7062 The run time is 7062 seconds.
System flag	Parameter ID: 0x1C	The data is available only when the GPRS event code is 35. Bit 0: Whether to modify the EEP2 parameter. When the parameter value is **1**, the EEP2 parameter is modified. Bit 1: Indicates the ACC status. When the parameter value is **1**, the ACC is on. Bit 2: Indicates the anti-theft status. When the parameter value is **1**, the tracker is in the arming state. Bit 3: vibration flag. When the parameter value is **1**, the tracker is vibrating. Bit 4: moving flag. When the parameter value is **1**, the tracker is moving. Bit 5: Whether to connect the external power supply. When the parameter value is **1**, the external power supply is connected. Bit 6: Whether the tracker is charging. When the parameter value is **1**, the tracker is charging. Bit 7: Whether to enable the sleep mode. When the parameter value is **1**, the sleep mode is enabled. Bit 8: Whether to connect the FMS. When the parameter value is **1**, the FMS is connected. Bit 9: Whether to enable the FMS function. When the parameter value is **1**, the function is enabled. Bits 10–31: reserved. Data type: DWORD	0x00 0x00 0x03 0x00 Converted to binary digits: 0000 0000 0000 0000 0000 0011 0000 0000 The tracker supports the FMS function and is connected to the FMS.
RFID ID	Parameter ID: 0x25	Indicates the ID number of a RFID card. The data is available only when the GPRS event code is 37. Data type: DWORD	0xD7 0x9D 0xD1 0x00 The RFID ID number is 13737431.

Input port status	Parameter ID: 0x42	Bits 0–31 correspond to status of input ports 1–31. When the parameter value is **0**, the port is inactive. When the parameter value is 1, the port is active. Data type: DWORD	0x00 0x00 0x00 0x04 Converted to binary digits: 0000 0000 0000 0000 0000 0000 0000 0100 The input port 3 is active, while other input ports are inactive.
Total fuel consumption (L)	Parameter ID: 0x98	4-byte hexadecimal data Data type: DWORD	0x01 0x02 0x00 0x00 Convert the digits to decimal digits: 513 The total fuel consumption is 513 L.
Total engine run time (h)	Parameter ID: 0x9A	Little-endian. After the digits are converted to decimal digits, the converted value divided by 10 is the actual value. Data type: DWORD	0x12 0x34 0x00 0x01 Convert the digits to decimal digits: 16790546 The total engine run time is 1679054.6 hours.
High resolution vehicle distance (m)	Parameter ID: 0x9B	4-byte hexadecimal data Data type: DWORD	0x11 0x22 0x00 0x00 Convert the digits to decimal digits: 8712 The total mileage is 8712 meters.
High resolution total fuel consumption (L)	Parameter ID: 0xA0	Little-endian. After the digits are converted to decimal digits, the converted value divided by 1000 is the actual value. Data type: DWORD	0x12 0x00 0x01 0x00 Convert the digits to decimal digits: 65554 The total fuel consumption is 65.554 L.
Fuel consumption rate (L/H)	Parameter ID: 0xA2	Little-endian. After the digits are converted to decimal digits, the converted value divided by 100 is the actual value. Data type: DWORD	0x12 0x00 0x02 0x00 Convert the digits to decimal digits: 131090 The fuel consumption rate is 1310.90 L/H.
Axle weight (kg)	Parameter ID: 0xA3	Little-endian. After the digits are converted to decimal digits, the converted value divided by 10 is the actual value. Data type: DWORD	0x12 0x34 0x00 0x00 Convert the digits to decimal digits: 13330 The axle weight is 1333.0 kg.
Service distance (km)	Parameter ID: 0xA4	4-byte hexadecimal data Data type: SINT32	0x22 0x30 0x00 0x00 Convert the digits to decimal digits: 12322 The service distance is 12322 km.
Instantaneous	Parameter	Little-endian. After the digits are converted to	0x12 0x56 0x00 0x00

fuel consumption (km/L)	ID: 0xA5	decimal digits, the converted value divided by 1000 is the actual value. Data type: DWORD	Convert the digits to decimal digits: 22034 The instantaneous fuel consumption is 22.034 km/L.
Number of unfixed-byte parameter ID		Value range: 0x00–0xFF The length of the following parameter ID numbers is 8 or 12 bytes, or is unfixed. The ordering of parameter ID numbers is not fixed. For details, see the parameter ID table.	0x01 There is one unfixed-byte parameter ID number. 0x00: The current data packet does not contain any parameter ID number whose length is unfixed.
Current base station info	Parameter ID: 0x0E	<Data length><MCC><MNC><LAC><CELL_ID><RX_LEVEL> Data length: hexadecimal; indicates the length of the base station data. Unit: byte. MCC: 16-bit unsigned; little-endian; indicates the Mobile Country Code. MNC: 16-bit unsigned; little-endian; indicates the Mobile Network Code. LAC: 16-bit unsigned; little-endian; indicates the Location Area Code. CELL_ID: 32-bit unsigned; little-endian; indicates the cell ID. RX_LEVEL: 16-bit signed; little-endian; indicates the signal strength. Data type: STRUCT	0x0C 0xCC 0x01 0x01 0x00 0x45 0xA5 0x8B 0xD4 0xE9 0x01 0xBB 0xFF 0x0C: The data length is 12 bytes. 0xCC 0x01: The MCC is 460. 0x01 0x00: The MNC is 01. 0x45 0xA5: The LAC is 42309. 0x8B 0xD4 0xE9 0x01: The cell ID is 32101515. 0xBB 0xFF: The signal strength is -69 dbm.
Picture name	Parameter ID: 0x28	The data is available only when the GPRS event code is 39. Time unit: second. Start time: 1 January, 2000, 00:00:00 am. Data type: STRUCT	0xCB 0x0F 0x23 0x19 0x01 0x1E 0x0C 0x00 There are two pieces of DWORD data: 0x19230FCB 0x000C1E01. 0x19230FCB: Indicates the date and time, that is, 130513024323. 0x000C1E01: Indicates the last part of the file name ,that is, C1E01. The file name is **130513024323_C1E01.jpg**.
Temperature sensor 1	Parameter ID: 0x2A	Little-endian Data type: STRUCT	0x01 0x09 0x1A 01: Indicates sensor 01. 09 1A: signed; 2 bytes;

			little-endian. The temperature is 66.65°C.
Temperature sensor 2	Parameter ID: 0x2B	Little-endian Data type: STRUCT	0x01 0x09 0x1A 01: Indicates sensor 01. 09 1A: signed; 2 bytes; little-endian. The temperature is 66.65°C.
Temperature sensor 3	Parameter ID: 0x2C	Little-endian Data type: STRUCT	0x01 0x09 0x1A 01: Indicates sensor 01. 09 1A: signed; 2 bytes; little-endian. The temperature is 66.65°C.
Temperature sensor 4	Parameter ID: 0x2D	Little-endian Data type: STRUCT	0x01 0x09 0x1A 01: Indicates sensor 01. 09 1A: signed; 2 bytes; little-endian. The temperature is 66.65°C.
Temperature sensor 5	Parameter ID: 0x2E	Little-endian Data type: STRUCT	0x01 0x09 0x1A 01: Indicates sensor 01. 09 1A: signed; 2 bytes; little-endian. The temperature is 66.65°C.
Temperature sensor 6	Parameter ID: 0x2F	Little-endian Data type: STRUCT	0x01 0x09 0x1A 01: Indicates sensor 01. 09 1A: signed; 2 bytes; little-endian. The temperature is 66.65°C.
Temperature sensor 7	Parameter ID: 0x30	Little-endian Data type: STRUCT	0x01 0x09 0x1A 01: Indicates sensor 01. 09 1A: signed; 2 bytes; little-endian. The temperature is 66.65°C.
Temperature sensor 8	Parameter ID: 0x31	Little-endian Data type: STRUCT	0x01 0x09 0x1A 01: Indicates sensor 01. 09 1A: signed; 2 bytes; little-endian. The temperature is 66.65°C.
Magnetic card reader	Parameter ID: 0x39	<RfidLen><RfidData> RfidLen: Indicates the length of the magnetic card's ID number; contains 1 byte. RfidData: Indicates the detailed data of the magnetic card; contains at most 160 bytes. Data type: STRUCT	

The current data packet ends here.		
*	Contains 1 byte. It is used to separate the command content from the checksum. ASCII (hexadecimal: 0x2A)	*
Checksum	Contains 2 bytes. Indicates the sum of hexadecimal characters from the packet header "$$" to the asterisk "*" (including the packet header and asterisk). *$$<Data identifier><Data length>,<IMEI>,<Command type>,<Hexadecimal data packet><*Checksum*>*\r\n	If the sum result is **0x27 0x62**, send the checksum 62 (low byte 0x62) in ASCII format, that is, **0x36 0x32**. Hexadecimal: 0x36 0x32 ASCII: 62
\r\n	Contains 2 bytes. This is an ending character. The type is ASCII (hexadecimal: 0x0D,0x0A).	\r\n

1.3 Event Code

Event Code	Event	Default SMS Header (At Most 16 Bytes)
1	**SOS Pressed**	SOS
2	**Input 2 Active**	Door Open
3	**Input 3 Active**	Ignition On
4	**Input 4 Active**	In4 Active
5	**Input 5 Active**	In5 Active
6	**Input 6 Active**	In6 Active
7	**Input 7 Active**	In7 Active
8	**Input 8 Active**	In8 Active
9	**Input 1 Inactive**	In1 Inactive
10	**Input 2 Inactive**	Door Close
11	**Input 3 Inactive**	Ignition Off
12	**Input 4 Inactive**	In4 Inactive
13	**Input 5 Inactive**	In5 Inactive
14	**Input 6 Inactive**	In6 Inactive
15	**Input 7 Inactive**	In7 Inactive
16	**Input 8 Inactive**	In8 Inactive
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**	Ext-Battery On
23	**External Battery Cut**	Ext-Battery Cut
24	**GPS Signal Lost**	GPS Signal Lost

25	**GPS Signal Recovery**	GPS Recovery
26	**Enter Sleep**	Enter Sleep
27	**Exit Sleep**	Exit Sleep
28	**GPS Antenna Cut**	GPS Antenna Cut
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
37	**RFID (change uart rate)**	
41	**Stop Moving**	Stop Moving
42	**Start Moving**	Start Moving
50	**Temperature High**	Temp High
51	**Temperature Low**	Temp Low
52	**Full Fuel**	Full Fuel
53	**Low Fuel**	Low Fuel
54	**Fuel Theft**	Fuel Theft
70	**Reject Incoming Call**	/
72	**Auto Answer Incoming Call**	/
82	**Refuelling**	**Refuelling**
83	**Ult-Sensor Drop**	**Ult-Sensor Drop**
118	**Input 9 Active**	**In9 Active**
119	**Input 9 Inactive**	**In9 Inactive**
129	**Harsh Braking**	Harsh Braking
130	**Harsh Acceleration**	Fast Accelerate
133	**Idle Overtime**	Idle Overtime
134	**Idle Recovery**	Idle Recovery
135	**Fatigue Driving**	Fatigue Driving
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138	**Speed Recovery**	Speed Recovery

2 Command List

Command	Command Description
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3 Command Details

3.1 Real-Time Location Query (GPRS) – A10

GPRS Sending	A10
GPRS Reply	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*
Description	**34**: Indicates the event code of the GPRS command.
Applicable Model	T633L
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,*Interval*
GPRS Reply	A11,OK
Description	The heartbeat packet function is used to keep the Transmission Control Protocol (TCP) connection open when the interval of scheduled GPRS reporting is long. Interval = 0: function disabled (default). Interval = [1…65535]: function enabled. Set the heartbeat packet reporting interval. Unit: minute. The heartbeat function is available only in conjunction with deep sleep mode. When the device enters the deep sleep mode, a heartbeat packet will be sent at the specified interval. A heartbeat packet is to confirm the device is online, and positioning data is invalid.
Applicable Model	T633L
Example	
GPRS Sending	@@S28,353358017784062,A11,10*FD\r\n
GPRS Reply	$$S28,353358017784062,A11,OK*FE\r\n *After the above command is sent successfully, the device will send the following GPRS heartbeat packet to the platform every 10 minutes in sleep mode:* *$$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*

3.3 Tracking by Time Interval (GPRS) – A12

GPRS Sending	A12,*Interval*
GPRS Reply	A12,OK
Description	Interval unit: x10 seconds

	Interval = 0: function disabled. The maximum time interval is 65535 x 10 seconds. Recommended value: 6 x 10 seconds
Applicable Model	T633L
Example	
GPRS Sending	@@V27,353358017784062,A12,6*D5\r\n
GPRS Reply	$$V28,353358017784062,A12,OK*02\r\n *After the above command is sent successfully, the device will send the following GPRS data packet to the platform every one minute:* *$$W129,353358017784062,AAA,35,22.540113,114.076141,100313094354,A,5,22,1,174,4,129,0,435,0|0|10133|4110,0000,166|224|193|2704|916,*BE\r\n*

3.4 Setting the Cornering Report (GPRS) – A13

GPRS Sending	A13,*Angle*
GPRS Reply	A13,OK
Description	When the driving angle exceeds the preset value, the device will send a GPRS data packet with location information to the server, which ensures a smoother route on the platform. Angle = 0: function disabled (default). Angle = [1…359]: function enabled. Recommended value: 30
Applicable Model	T633L
Example	
GPRS Sending	@@X29,353358017784062,A13,120*37\r\n
GPRS Reply	$$X28,353358017784062,A13,OK*05\r\n *After the above command is sent successfully, if the cornering angle is greater than 120 degrees, the device will send the following GPRS data packet to the server:* *$$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*

3.5 Tracking by Distance – A14

GPRS Sending	A14,*Distance*
GPRS Reply	A14,OK
Description	Distance = 0: function disabled (default). Distance = [1…65535]: function enabled. Set the distance. Unit: meter. Note: When both the GPRS time interval and distance tracking functions have been set, the "first reach first report" rule will be applied, and then both the time interval and distance counters will be reset to 0. For example, set the time interval to 6 x 10 seconds and distance to 200 meters. If the road is clear and the driving time is less than one minute, a distance data packet will be reported first; if there is heavy traffic on the road and the vehicle only drives 100 meters within one minute, a time interval data packet will be reported first.

	Recommended value: 300
Applicable Model	T633L
Example	
GPRS Sending	@@D30,353358017784062,A14,1000*4A\r\n
GPRS Reply	$$D28,353358017784062,A14,OK*F2\r\n *After the above command is sent successfully, if the driving distance reaches 1000 meters, the device will send the following data packet to the server:* *$$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*

3.6 Setting the Parking Scheduled Tracking Function (GPRS) – A15

GPRS Sending	A15,*Interval*
GPRS Reply	A15,OK
Description	The function is available for vehicle trackers only. With the function, the number of GPRS messages is reduced, and thus GPRS traffic is saved. After the A15 function is set, the A16 function will be automatically enabled. For details about engine status, see the section 3.7 "Enabling the Parking Scheduled Tracking Function (GPRS) – A16." Interval unit: x10 seconds Interval = 0: function disabled. The maximum time interval is 65535 x 10 seconds. Note: If data needs to be sent at the specified time interval after the vehicle starts or stops, the function needs to work with the A12 function. For details, see A12 and A16 commands.
Applicable Model	T633L
Example	
GPRS Sending	@@E27,353358017784062,A15,6*C7\r\n
GPRS Reply	$$E28,353358017784062,A15,OK*F4\r\n

3.7 Enabling the Parking Scheduled Tracking Function (GPRS) – A16

GPRS Sending	A16,*Status*
GPRS Reply	A16,OK
Description	**The function is available for vehicle trackers only. The first positive input port (high level) of the device must be connected to engine detection. Otherwise, the function is unavailable.** When the status value is **1**, the parking scheduled tracking function is enabled, and GPRS data is sent at the following interval: Engine on: Data is sent at the interval of the A12 command. Engine off: Data is sent at the interval of the A15 command. When the status value is **0**, the parking scheduled tracking function is disabled, and GPRS data is sent at the following interval:

	Engine on: Data is sent at the interval of the A12 command. Engine off: Data is sent at the interval of the A15 command.
Applicable Model	T633L
Example	
GPRS Sending	@@F27,353358017784062,A16,0*C3\r\n
GPRS Reply	$$F28,353358017784062,A16,OK*F6\r\n

3.8 Controlling Output 1 Status by RFID/iButton – A17

GPRS Sending	A17,*X*
GPRS Reply	A17,OK
Description	X = 1: function enabled. Before using the function, you must ensure: 1. ACC detection is connected to input 3; 2. A RFID card has been authorized. X = 0: function disabled (default). For example, after swiping the authorized RFID card, you must start the engine (input 3 connects to engine detection) within one minute. If the time exceeds one minute, you need to swipe the card again. After the engine is started, input 3 will always detect the ACC status. If ACC ON is detected (that is, input 3 is the high level), output 1 will not generate data. If ACC OFF is detected, wait for one minute and then swipe the authorized RFID card to start the engine as required. For details about how to authorize a RFID card, see commands D10–D15.
Applicable Model	T633L
Example	
GPRS Sending	@@T27,353358017784062,A17,1*D3\r\n
GPRS Reply	$$T28,353358017784062,A17,OK*05\r\n

3.9 Setting GPRS Parameters – A21

GPRS Sending	A21,*Connection mode*,*IP address*,*Port*,*APN*,*APN user name*,*APN password*
GPRS Reply	A21,OK
Description	Connection mode = 0: function disabled. Connection mode = 1: function enabled; use the TCP/IP reporting mode. Connection mode = 2: function enabled; use the UDP reporting mode. IP address: IP address or domain name. A maximum of 32 bytes are supported. Port: a maximum of 5 digits APN/APN user name/APN password: a maximum of 32 bytes respectively If no user name and password are required, leave them blank.
Applicable Model	T633L
Example	
GPRS Sending	@@H58,353358017784062,A21,1,server.meigps.com,8800,CMNET,,*A0
GPRS Reply	$$H28,353358017784062,A21,OK*F4\r\n

3.10 Setting the DNS Server IP Address – A22

GPRS Sending	A22,*DNS server IP address*
GPRS Reply	A22,OK
Description	An incorrect DNS server IP address may lead to GPRS data reporting failures after the A21 command is used. You can use the A22 command to set the DNS server IP address (confirm the IP address with your domain name provider), and then use the A21 command to reset the domain name. DNS server IP address: a maximum of 16 bytes
Applicable Model	T633L
Example	
GPRS Sending	@@K38,353358017784062,A22,75.127.67.90*FD\r\n
GPRS Reply	$$K28,353358017784062,A22,OK*F8\r\n

3.11 Setting the Standby GPRS Server – A23

GPRS Sending	A23,*IP address*,*Port*
GPRS Reply	A23,OK
Description	IP address: a maximum of 32 bytes Port: a maximum of 5 digits When the device fails to send data to the active server set by the A21 command, data will be automatically sent to the standby server to prevent data loss.
Applicable Model	T633L
Example	
GPRS Sending	@@S44,353358017784062,A23,182.92.69.175,8800*35\r\n
GPRS Reply	$$S28,353358017784062,A23,OK*01\r\n

3.12 Reading All Authorized Phone Numbers – A70

GPRS Sending	A70
GPRS Reply	A70,*SOS phone number 1*,*SOS phone number 2*,*SOS phone number 3*,*Listen-in phone number 1*,*Listen-in phone number 2*
Description	Read all authorized phone numbers.
Applicable Model	T633L
Example	
GPRS Sending	@@T25, 353358017784062,A70*93\r\n
GPRS Reply	$$T85,353358017784062,A70,13811111111,13822222222,13833333333,13844444444,13855555555*21\r\n

3.13 Setting Authorized Phone Numbers – A71

GPRS Sending	A71,*Phone number 1*,*Phone number 2*,*Phone number 3*
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. Phone number 1: SOS phone number. When you call the device by using the phone number, you will receive an SMS notification about the location, geo-fence alert and low battery alert. When the SOS button is pressed, the device will dial phone numbers 1, 2, and 3 in sequence. It will stop dialing when a phone number responds.
Applicable Model	T633L
Example	
GPRS Sending	@@U61,353358017784062,A71,13811111111,13822222222,13833333333*7D\r\n
GPRS Reply	$$U28,353358017784062,A71,OK*06\r\n

3.14 Setting Listen-in Phone Numbers – A72

GPRS Sending	A72,*Listen-in phone number 1*,*Listen-in phone number 2*
GPRS Reply	A72,OK
Description	When you call the device by using authorized listen-in phone numbers, the device will answer the call automatically and enter the listen-in state. In this way, the device will not make any sound. Listen-in phone number: 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. If no phone numbers are set and commas are remained, phone numbers set before will be deleted.
Applicable Model	T633L
Example	
GPRS Sending	@@V49,353358017784062,A72,13844444444,13855555555*55\r\n
GPRS Reply	$$V28,353358017784062,A72,OK*08\r\n

3.15 Setting the Smart Sleep Mode – A73

GPRS Sending	A73,*Sleep level*
GPRS Reply	A73,OK
Description	Set the automatic smart sleep mode when the device is idle. Sleep level = 0: function disabled (default). Sleep level = 1: normal sleep. The GSM module always works, and the GPS module occasionally enters the sleep mode. The device works 25% longer in the normal sleep mode than that in the normal working mode. This mode is not recommended for short interval tracking because it will affect the route precision. 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 the sleep mode. Once an event is triggered, the GPS and GSM modules will be woken up. The above actions will be cycled. A heartbeat event is triggered only in the deep sleep mode and is uploaded every one hour by default. Triggering events include the SOS alert, low power alert for internal battery, low power

	alert for external battery, external power status, GPS antenna cut-off alert, towing alert, high temperature, low temperature, fuel theft, vehicle theft, ACC ON, (button) changes in any input port, vibration, incoming call, SMS receiving, call, and heartbeat event (GPS invalid during heartbeat wakeup).
Applicable Model	T633L
Example	
GPRS Sending	@@W27,353358017784062,A73,2*D9\r\n
GPRS Reply	$$W28,353358017784062,A73,OK*0A\r\n

3.16 Setting a Geo-Fence – B05

GPRS Sending	B05,*Geo-fence number*,*Latitude*,*Longitude*,*Radius*,*Enter Geo-fence alert*,*Exit Geo-fence alert*
GPRS Reply	B05,OK
Description	Geo-fence number: The parameter value ranges from **1** to **8**. A maximum of eight geo-fences can be set. Latitude: Indicates the latitude of the geo-fence center; decimal; accurate to six digits placed after the decimal point. If there are only four digits placed after the decimal point, add two digits 0. Otherwise, the command cannot be used successfully. Longitude: Indicates the longitude of the geo-fence center; decimal; accurate to six digits placed after the decimal point. If there are only four digits placed after the decimal point, add two digits 0. Otherwise, the command cannot be used successfully. Radius: The parameter value ranges from **1** to **4294967295**. Unit: meter. Take coordinates of the above latitude and longitude as the center point and draw a circle with this radius. Enter Geo-fence alert = 0: function disabled. Enter Geo-fence alert = 1: function enabled. Exit Geo-fence alert = 0: function disabled. Exit Geo-fence alert = 1: function enabled.
Applicable Model	T633L
Example	
GPRS Sending	@@H57,353358017784062,B05,1,22.913191,114.079882,1000,0,1*96\r\n
GPRS Reply	$$H28,353358017784062,B05,OK*F7\r\n *When the device exits the geo-fence (latitude: 22.913191; longitude: 114.079882; radius: 1000 meters), it will send the following GPRS data packet about an Exit Geo-fence alert to the server:* *$$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*

3.17 Deleting a Geo-Fence – B06

GPRS Sending	B06,*Geo-fence number*
GPRS Reply	B06,OK
Description	Geo-fence number: The parameter value ranges from **1** to **8**. Only one geo-fence can be

	deleted each time by sending an SMS or GPRS command.
Applicable Model	T633L
Example	
GPRS Sending	@@J27,353358017784062,B06,1*C8\r\n
GPRS Reply	$$J28,353358017784062,B06,OK*FA\r\n *After the above command is sent successfully, the first geo-fence will be deleted.*

3.18 Setting the Speeding Alert – B07

GPRS Sending	B07,*Driving speed*,*Buzzer flag*
GPRS Reply	B07,OK
Description	Driving speed = 0: function disabled (default). Driving speed = [1…255]: function enabled. When the driving speed reaches the preset value, a speeding alert will be sent. Unit: km/h. Buzzer flag = 0: The buzzer will make a buzzing sound when the vehicle exceeding the speed limit (default). Buzzer flag = 1: The buzzer will not make a buzzing sound when the vehicle exceeding the speed limit.
Applicable Model	T633L
Example	
GPRS Sending	@@P28,353358017784062,B07,60*05\r\n
GPRS Reply	$$P28,353358017784062,B07,OK*01\r\n

3.19 Setting the Towing Alert – B08

GPRS Sending	B08,*Consecutive vibration time*
GPRS Reply	B08,OK
Description	When the device's consecutive vibration time exceeds the preset value, the device 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 time. Otherwise, the towing alert function will be unavailable. Consecutive vibration time = 0: function disabled (default). Consecutive vibration time = [1…255]: function enabled. Set the consecutive vibration time. Unit: second.
Applicable Model	T633L
Example	
GPRS Sending	@@I27,353358017784062,B08,3*CB\r\n
GPRS Reply	$$I28,353358017784062,B08,OK*FB\r\n *After the above command is sent successfully, if the device vibrates for more than three consecutive seconds, it will send the following GPRS data packet about a towing alert to the server:* *$$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*

3.20 Setting the Vibration Sensitivity Level – B09

GPRS Sending	B09,*Sensitivity level*
GPRS Reply	B0,OK
Description	Sensitivity level: The parameter value ranges from **1** to **65535**. The parameter value cannot be **0**. The smaller the parameter value is, the stronger the sensitivity is. The default parameter value is **1**.
Applicable Model	T633L
Example	
GPRS Sending	@@I27,353358017784062,B09,3*CC\r\n
GPRS Reply	$$I28,353358017784062,B09,OK*FC\r\n

3.21 Fast Setting the Towing Alert – B10

GPRS Sending	B10,*Consecutive vibration time*,*Idling time*
GPRS Reply	B10,OK
Description	Consecutive vibration time = 0: function disabled (default). Consecutive vibration time = [1…255]: function enabled. Set the consecutive vibration time. Unit: second. Idling time: The default parameter value is **2**. Unit: minute. Idling time = 0: The power-saving mode is disabled. Idling time = [1…255]: The power-saving function is enabled. When the idling time exceeds the preset value, the device will enter the power-saving mode.
Applicable Model	T633L
Example	
GPRS Sending	@@I29,353358017784062,B10,5,5*29\r\n
GPRS Reply	$$I28,353358017784062,B10,OK*F4\r\n

3.22 Setting a Polygonal Geo-Fence – B11

GPRS Sending	B11,*Geo-fence number*,*Latitude 1*,*Longitude 1*,*Latitude 2*,*Longitude 2*...*Latitude N*,*Longitude N*,*Enter Geo-fence alert*,*Exit Geo-fence alert*
GPRS Reply	B11,OK
Description	Geo-fence number: The parameter value ranges from **1** to **8**. (The maximum value varies depending on customization projects.) Latitude: accurate to 6 digits placed after the decimal point. For example, 22.512517 or -22.512517. Longitude: accurate to 6 digits placed after the decimal point. For example, 114.057200 or -114.057200. Enter Geo-fence alert: The parameter value is **0** or **1**. **0**: An alert will not be generated when the device enters the geo-fence. **1**: An alert will be generated when the device enters the geo-fence. Exit Geo-fence alert: The parameter value is **0** or **1**. **0**: An alert will not be generated when

	the device exits the geo-fence. **1**: An alert will be generated when the device exits the geo-fence. If the command only contains the parameter **Geo-fence number**, related geo-fences will be deleted. If the geo-fence is circular, the command to be sent is **B11,*Geo-fence number*,*Latitude*,*Longitude*,*Radius (meter)*,*Enter Geo-fence alert*,*Exit Geo-fence alert***.
Applicable Model	T633L
Example	
GPRS Sending	@@I59,353358017784062,B11,5,31,22.913458,114.083183,100,1,1*F5\r\n
GPRS Reply	$$I28,353358017784062,B11,OK*F5\r\n

3.23 Setting the Idling Alert – B14

GPRS Sending	B14,*Consecutive speed time (second)*,*Speed (km/h)*,*Alert time (second)*
GPRS Reply	B14,OK
Description	Consecutive speed time: The parameter value ranges from **0** to **60000**. Unit: second. The default parameter value is **180**. Speed: The parameter value ranges from **0** to **200**. Unit: km/h. The default parameter value is **5**. Alert time: The parameter value ranges from **0** to **60000**. Unit: second. The default parameter value is **120**. If you want to read the parameters, send **B14**.
Applicable Model	T633L
Example	
GPRS Sending	@@I27,353358017784062,B14,180,5,120*AE\r\n
GPRS Reply	$$I28,353358017784062,B14,OK*F8\r\n

3.24 Setting Driver Fatigue Parameters – B15

GPRS Sending	B15,*Consecutive driving time (minute)*,*Alert time (second)*,*Rest time (minute)*
GPRS Reply	B15,OK
Description	Consecutive driving time: The parameter value ranges from **0** to **1000**. Unit: minute. The default parameter value is **240**. Alert time: The parameter value ranges from **0** to **60000**. Unit: second. The default parameter value is **300**. Rest time: The parameter value ranges from **0** to **1000**. Unit: minute. The default parameter value is **20**. If you want to read the parameters, send **B15**.
Applicable Model	T633L
Example	
GPRS Sending	@@I27,353358017784062,B15,240,300,20*79\r\n
GPRS Reply	$$I28,353358017784062,B15,OK*F9\r\n

3.25 Setting the Consecutive Time of the Speeding Alert – B16

GPRS Sending	B16,*Consecutive speeding alert time*,*Time for recovering normal speed*
GPRS Reply	B16,OK
Description	Consecutive speeding alert time: The parameter value ranges from **1** to **30000**. The default parameter value is **15**. Unit: second. Time for recovering normal speed: The parameter value ranges from **1** to **30000**. The default parameter value is **15**. Unit: second. If you want to read the parameters, send **B16**. When the driving speed exceeds the speeding alert threshold and the consecutive speeding time is greater than the preset value, a speeding alert will be generated. When the driving speed is lower than the speeding alert threshold and the consecutive time is greater than the preset value, a normal speed recovery event will be generated.
Applicable Model	T633L
Example	
GPRS Sending	@@I27,353358017784062,B15,240,300,20*79\r\n
GPRS Reply	$$I28,353358017784062,B15,OK*F9\r\n

3.26 Setting the Anti-Theft Function – B21

GPRS Sending	B21,*Status*
GPRS Reply	B21,OK
Description	Status = 1: function enabled (default). Status = 0: function disabled.
Applicable Model	T633L
Example	
GPRS Sending	@@C27,353358017784062,B21,1*BE\r\n
GPRS Reply	$$C28,353358017784062,B21,OK*F0\r\n

3.27 Setting the Camera Timer – B30

GPRS Sending	B30,*T*
GPRS Reply	B30,OK
Description	T: The parameter value ranges from **0** to **65535**. When the parameter value is **0**, the camera timer is not set and there is no delay when a photo is actually taken. If you want to read the parameters, send **B**30.
Applicable Model	T633L
Example	
GPRS Sending	@@C27,353358017784062,B30,1*BE\r\n
GPRS Reply	$$C28,353358017784062,B30,OK*F0\r\n

3.28 Turning off the LED Indicator – B31

GPRS Sending	B31,*A*
GPRS Reply	B31,OK
Description	A = 00: The device's LED indicator is turned on (default). The LED indicator can be used to confirm the device's running status. A = 10: The device's LED indicator is turned off.
Applicable Model	T633L
Example	
GPRS Sending	@@J28,353358017784062,B31,10*F7\r\n
GPRS Reply	$$J28,353358017784062,B31,OK*F8\r\n

3.29 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. When there is no GPS signal, data will not be recorded. **Recorded logs can only be read by GPSLog or Meitrack Manager software.** Log interval = 0: function disabled (default). Log interval = [1…65535]: function enabled. Set the log interval. Unit: second.
Applicable Model	T633L
Example	
GPRS Sending	@@N28,353358017784062,B34,60*03\r\n
GPRS Reply	$$N28,353358017784062,B34,OK*FF\r\n

3.30 Setting the SMS Time Zone – B35

GPRS Sending	B35,*SMS minute*
GPRS Reply	B35,OK
Description	The default time zone of the device is GMT 0. You can run the B35 command to change the time zone of an SMS report to the local time zone. The time zone of an SMS report is different from that of a GPRS data packet. SMS minute = 0: The time zone is GMT 0. SMS minute = [-32768...32767], set time zones.
Applicable Model	T633L
Example	
GPRS Sending	@@O29,353358017784062,B35,480*3C\r\n
GPRS Reply	$$O28,353358017784062,B35,OK*01\r\n *After the above command is sent successfully, the device's SMS time zone will be changed to UTC+08:00 (China time zone).*

3.31 Setting the GPRS Time Zone – B36

GPRS Sending	B36,*GPRS minute*
GPRS Reply	B36,OK
Description	GPRS minute = 0: The time zone is GMT 0 (default). The MS02 platform can automatically detect users' time zone, so that the GPRS time zone does not need to be changed. Please maintain the default GPRS time zone at GMT 0. If the GPRS time zone is changed, data will be inaccurate. GPRS minute = [-32768...32767]: Set time zones.
Applicable Model	T633L
Example	
GPRS Sending	@@P29,353358017784062,B36,480*3E\r\n
GPRS Reply	$$P28,353358017784062,B36,OK*03\r\n *After the above command is sent successfully, the GPRS time zone will be changed to UTC+08:00 (China time zone).*

3.32 Setting the Auto Sleep Function – B37

GPRS Sending	B37,*X*
GPRS Reply	B37,OK
Description	X: The parameter value is **0** or **1**. **0**: The auto sleep mode is disabled. The default parameter value is **1**. The device will automatically enter the deep sleep mode when the following conditions are met: (a) When the device detects that the ACC is off and it stops moving; and (b) The voltage of the external power supply is smaller than 11.4 V or 24.8 V.
Applicable Model	T633L
Example	
GPRS Sending	@@P27,353358017784062,B37,0*D1\r\n
GPRS Reply	$$P28,353358017784062,B37,OK*04\r\n

3.33 Setting the Auto Sleep Voltage – B38

GPRS Sending	B38,*V*
GPRS Reply	B38,OK
Description	V: The parameter value ranges from **0** to **2400**. Voltage value = *V*/10 V The default parameter value is **0**. The device will enter the sleep mode based on the voltage of the external power supply. In the sleep mode, the voltage of small vehicles is 11.4 V, and the voltage of large vehicles is 24.8 V. If you want to read the parameter, send **B38**.
Applicable Model	T633L
Example	
GPRS Sending	@@P29,353358017784062,B39,0*D4\r\n
GPRS Reply	$$P28,353358017784062,B39,OK*05\r\n

3.34 Setting Event Photographing Parameters – B46

GPRS Sending	B46,*E*,*T*,*S*,*U*,*D*
GPRS Reply	B46,OK
Description	E: Indicates the event code. For example, the SOS event code is 1. T: Indicates the photographing time interval. The parameter value ranges from **0** to **65535**. Unit: minute. S: Indicates the number of photos. The parameter value ranges from **0** to **65535**. U: Whether to automatically upload photos. The parameter value is **0** or **1**. **0**: Photos will not be uploaded automatically. **1**: Photos will be uploaded automatically. D: Whether to delete photos after the uploading task is completed. The parameter value is **0** or **1**. **0**: Photos will not be deleted after the uploading task is completed. **1**: Photos will be deleted after the uploading task is completed. If you want to delete the parameters, send **B46,*E***. If you want to read the parameters, send **B46**.
Applicable Model	T633L
Example	
GPRS Sending	@@P35,353358017784062,B46,1,1,1,0,1*44\r\n
GPRS Reply	$$P28,353358017784062,B46,OK*04\r\n

3.35 Determining Vehicle Status by ACC Status – B60

GPRS Sending	B60,*X*
GPRS Reply	B60,OK
Description	X = 1: function enabled. When the device detects that the ACC is off, the device's longitude and latitude will not be updated. This helps avoid static drift. X = 0: function disabled (default). The first positive input of the device is connected to engine detection by default.
Applicable Model	T633L
Example	
GPRS Sending	@@U27,353358017784062,B60,1*D3\r\n
GPRS Reply	$$U28,353358017784062,B60,OK*05\r\n

3.36 Setting SMS Event Characters – B91

GPRS Sending	B91,*SMS event code*,*SMS header*
GPRS Reply	B91,OK
Description	Header: a maximum of 16 bytes
Applicable Model	T633L
Example	
GPRS Sending	@@R31,353358017784062,B91,1,SOS*F0\r\n
GPRS Reply	$$R28,353358017784062,B91,OK*06\r\n *After the above command is sent successfully and the SOS button (input 1) is pressed, the*

	device will send an SMS alert whose header is SOS to preset authorized phone numbers.

3.37 Setting a Photographing Event Flag – B96

GPRS Sending	B96,*Photographing event flag*
GPRS Reply	B96,OK
Description	Set one or multiple photographing events. When a preset event happens, a photo will be taken and then saved in the Micro SD card. After you press the SOS button, a photo will be taken and then saved into the Micro SD card by default. If you want to read photos, send the D00 or D01 command.
Applicable Model	T633L
Example	
GPRS Sending	@@A42,353358017784062,B96,0000000000000001*95\r\n
GPRS Reply	$$A28,353358017784062,B96,OK*FA\r\n

3.38 Reading a Photographing Event Flag – B97

GPRS Sending	B97
GPRS Reply	B97,*Photographing event flag*
Description	This command is used to know which event supports he function for taking photos.
Applicable Model	T633L
Example	
GPRS Sending	@@C25,353358017784062,B97*6C\r\n
GPRS Reply	$$C42,353358017784062,B97,0000000000000001*60\r\n

3.39 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*]. B99,<OUT1>/<5>,<*Operation code*>, [*Event code 1*]…[*Event code n*] B99,<OUT2>/<6>,<*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] B99,<OUT1>/<5>,<*Operation code*>, [*Event code 1*]…[*Event code* n] B99,<OUT2>/<6>,<*Operation code*>, [*Event code 1*]…[*Event code* n]
Description	Fields SMS, CALL, CAMERA, GPRS, BUZZER, OUT1, and OUT2 can be presented by 0–6 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: Before using the B99 command to set the SMS or CALL event code, ensure that an authorized phone number is set in advance by using the A71 command or the parameter configuration tool. The device will compare the authorized phone number included in the B99 command with the authorized phone number (excluding +86 characters) set before. If the phone numbers are the same, the new event code will be stored. If not, an SMS with error information will be sent.
Applicable Model	T633L
Example	
GPRS Sending	@@B34,863070010825791,B99,gprs,get*BC\r\n
GPRS Reply	$$B33,863070010825791,B99,1,17,18*B5\r\n

3.40 Controlling Output Status – C01

GPRS Sending	C01,*Speed*,*ABCDE*
GPRS Reply	C01,OK
Description	Speed = 0: No speed limit exists. When the device receives the command, the function will take effect immediately. Speed = [1...255]: set the speed limit. When the driving speed is lower than the speed limit, the function will take effect. Unit: km/h. A = 0: Close output (output 1) - open drain. A = 1: Open output (output 1) - connect to GND. A = 2: Remain previous status. B = 0: Close output (output 2) - open drain. B = 1: Open output (output 2) - connect to GND. B = 2: Remain previous status. C = 0: Close output (output 3) - open drain. C = 1: Open output (output 3) - connect to GND. C = 2: Remain previous status. D = 0: Close output (output 4) - open drain. D = 1: Open output (output 4) - connect to GND. D = 2: Remain previous status. E = 0: Close output (output 5) - open drain. E = 1: Open output (output 5) - connect to GND. E = 2: Remain previous status.
Applicable Model	T633L
Example	

GPRS Sending	@@M34,353358017784062,C01,20,10122*18\r\n
GPRS Reply	$$M28,353358017784062,C01,OK*F9\r\n

3.41 Notifying the Device of Sending an SMS – C02

GPRS Sending	C02,*X*,*Phone number*,*Content*
GPRS Reply	C02,OK
Description	This command is used for the platform to notify the device of sending an SMS to a mobile phone. X = 0: in TEXT encoding mode X = 1: in Unicode encoding mode Phone number: a maximum of 16 digits Content: a maximum of 140 characters After receiving this message, the device will send the **Content** parameter to specified phone numbers.
Applicable Model	T633L
Example	
GPRS Sending	@@f47,353358017784062,C02,0,15360853789,Meitrack*B1\r\n
GPRS Reply	$$f28,353358017784062,C02,OK*13\r\n

3.42 Setting a GPRS Event Transmission Mode – C03

GPRS Sending	C03,*X*
GPRS Reply	C03,OK
Description	X = 0: automatic event report (default) X = 1: Before another event is transmitted, existing event reports need to be confirmed and deleted on the server by using the AFF command. Select this mode when the GPRS connection uses UDP.
Applicable Model	T633L
Example	
GPRS Sending	@@f27,353358017784062,C03,0*E1\r\n
GPRS Reply	$$f28,353358017784062,C03,OK*14\r\n

3.43 Registering a Temperature Sensor Number – C40

GPRS Sending	C40,*SN1 & Number 1*,*SN2 & Number 2*,…,*SNn & Number n*
GPRS Reply	C40,*SN1 & Number 1 & Registration result*,*SN2 & Number 2 & Registration result*,…*SNn & Number n & Registration result*
Description	Commands C40 to C46 are used to read or set a temperature sensor. Perform the following steps to connect to a temperature sensor: 1) Check whether the temperature sensor number included in GPRS data in AAA format is 0.

	2) If the number is 0, it means the temperature sensor is not numbered. Then send the C42 command to read the mappings of sensor SNs and numbers. 3) Use the C40 command to number all sensors and bind related information in the database, such as the IMEI number, SN, number, and customized name, so that you can view the mappings from the platform. 4) If a high or low temperature alert is required, send the C43 command to set the temperature threshold and customize a name. You are advised to use the installation path as the name and save the name to the database. 5) If the sensor is pulled out or replaced when the device is online, use the C46 command to check the sensor. If data is inconsistent, use the C40 and C43 commands to set data. The device uploads the current temperature data by the AAA event. If the number including in temperature data is 0, it means the temperature sensor is not registered. The platform will automatically send the C42 command to obtain the temperature sensor SN and number list. Then find out the sensor whose number is 0, and register it. n: The maximum parameter value is **8**. SN: Indicates the unique number, which is used to identify the temperature sensor; contains eight bytes; hexadecimal string. The SN is displayed on the platform like 28 1B D5 23 04 00 00 57, which is the same as that displayed on the sensor. Number: Contains one byte; hexadecimal. The parameter value ranges from **1** to **254**. Registration result: The parameter value is **0x01**, **0x02**, **0x03**, and **0x04**. **0x01**: Registration succeeded. **0x02**: The number or SN has already exists. **0x03**: The number of registered sensors has reached the upper limit. **0x04**: Registration failed. Hexadecimal.
Applicable Model	T633L
Example (ASCII is used to display examples because hexadecimal characters cannot be displayed.)	
GPRS Sending	@@q35,012896001078259,C40,(1BD5#040000W02*50\r\n
GPRS Reply	$$q36,012896001078259,C40,(1BD5#040000W0201*1B \r\n

3.44 Deleting a Registered Temperature Sensor – C41

GPRS Sending	C41,*Number 1*,*Number 2*,…*Number n*
GPRS Reply	C41,*Number 1*,*Result*,*Number 2*,*Result*,…*Number n*,*Result*
Description	Number: Indicates the number of the registered sensor; hexadecimal. The parameter value ranges from **1** to **254**. Result: Decimal. The parameter value is **1**, **2**, and **3**. **1**: Deletion succeeded. **2**: The number does not exist. **3**: Deletion failed. (If you want to delete all registered temperature sensors, send **C41**. If deletion is successful, **OK** is returned. If not, **Error** is returned.)
Applicable Model	T633L
Example	
GPRS Sending	@@n28,012896001078259,C41,01*19\r\n
GPRS Reply	$$n30,012896001078259,C41,01,1*37\r\n

3.45 Reading the Temperature Sensor SN and Number – C42

GPRS Sending	C42
GPRS Reply	C42,*SN1 & Number 1*,*SN2 & Number 2*,…*SNn & Number n*
Description	SNn: Indicates the unique SN of temperature sensor *n*; contains eight bytes in hexadecimal format. Number n: Indicates the number of sensor *n*; contains one byte in hexadecimal format. The parameter value ranges from **0** to **255**. If the parameter value is **0**, the temperature sensor is not registered.
Applicable Model	T633L
Example (ASCII is used to display examples because hexadecimal characters cannot be displayed.)	
GPRS Sending	@@m25,012896001078259,C42*89\r\n
GPRS Reply	$$t45,012896001078259,C42,(B4v#040000R00,(1BD5#040000W00*13\r\n

3.46 Setting the Temperature Threshold and Logical Name – C43

GPRS Sending	C43,*Number 1/SN1/High temperature value 1/Low temperature value 1/High temperature alert 1/Low temperature alert 1/Logical name 1/…Number n/SNn/High temperature value n/Low temperature value n/High temperature alert n/Low temperature alert n/Logical name n*
GPRS Reply	C43,*Number 1/Result 1/Number 2/Result 2…/Number n/Result n*
Description	n: The maximum parameter value is **8**. Number: Contains one byte in hexadecimal format. SN: Indicates the unique SN of the temperature sensor; contains eight bytes in hexadecimal format. High/Low temperature value: Contains two bytes in hexadecimal format. The first byte indicates the integer part of the temperature value. When the high bit is 1, the first byte is a negative integer. When the high bit is 0, the first byte is a positive integer. The second byte indicates the decimal part of the temperature value. High temperature alert: flag; contains one byte in hexadecimal format. Low temperature alert: flag; contains one byte in hexadecimal format. Logical name (customized name): Contains 16 bytes in hexadecimal format. If the name length is less than 16 bytes, add 0x00. There are 15 English characters, and # is located at the end of English characters to distinguish the Unicode and English characters. A maximum of eight Chinese characters can be supported. Chinese characters must be Unicode characters. Result: Contains one byte in hexadecimal format. **0x01**: Settings succeeded. **0x02**: The number is not found. **0x03**: Setting failed due to incorrect parameters. Note: Separators "/" are not required between parameters.
Applicable Model	T633L
Example (ASCII is used to display examples because hexadecimal characters cannot be displayed.)	
GPRS Sending	@@o57,012896001078259,C43,01(1BD5#040000W<0005000101T1#000000000000000000000000000*3F

GPRS Reply	$$o28,012896001078259,C43,0101*85

3.47 Reading Temperature Sensor Parameters – C44

GPRS Sending	C44
GPRS Reply	C44,*Number 1/SN1/High temperature value 1/Low temperature value 1/High temperature alert 1/Low temperature alert 1/Logical name 1/…Number n/SNn/High temperature value n/Low temperature value n/High temperature alert n/Low temperature alert n/Logical name n*
Description	n: The maximum parameter value is **8**. Number: Contains one byte in hexadecimal format. SN: Indicates the unique SN of the temperature sensor; contains eight bytes in hexadecimal format. High/Low temperature value: Contains two bytes in hexadecimal format. The first byte indicates the integer part of the temperature value. When the high bit is 1, the first byte is a negative integer. When the high bit is 0, the first byte is a positive integer. The second byte indicates the decimal part of the temperature value. High temperature alert: flag; contains one byte in hexadecimal format. Low temperature alert: flag; contains one byte in hexadecimal format. Logical name (customized name): Contains 16 bytes in hexadecimal format. If the name length is less than 16 bytes, add 0x00. There are 15 English characters, and # is located at the end of English characters to distinguish the Unicode and English characters. A maximum of eight Chinese characters can be supported. Chinese characters must be Unicode characters. Note: Separators "/" are not required between parameters.
Applicable Model	T633L
Example (ASCII is used to display examples because hexadecimal characters cannot be displayed.)	
GPRS Sending	@@r25,012896001078259,C44*90\r\n
GPRS Reply	$$r274,012896001078259,C44,01(B4v#040000R000000000000000000000 000000000000000000000002(1BD5#040000W000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000 00000000000000000000*1E\r\n

3.48 Checking Temperature Sensor Parameters – C46

GPRS Sending	C46
GPRS Reply	C46,*Checksum*
Description	Checksum: Contains two bytes in hexadecimal format. Use CRC-CCITT to calculate

	parameters of eight temperature sensors (in sequence, number, SN, high temperature value, low temperature value, high temperature alert, low temperature alert, and logical name). The calculation result is used as the temperature sensor checksum.
Applicable Model	T633L
Example	
GPRS Sending	@@i25,012896001078259,C46*89\r\n
GPRS Reply	$$i28,012896001078259,C46,12_*F1\r\n

3.49 Setting Fuel Parameters – C47

GPRS Sending	C47,*Sensor type*,*Alert percentage upper limit*,*Alert percentage lower limit*
GPRS Reply	C47,OK
Description	Sensor type: The parameter value is **0**, **1**, **2**, and **3**. **0**: No fuel level sensor is connected. **1**: A C-type fuel level sensor (AD2) is connected. **2**: A R-type fuel level sensor (AD2) is connected. **3**: A V-type fuel level sensor (AD2) is connected. The AD2 of the MVT600 and T1 is connected to the fuel level sensor by default. Alert percentage upper limit: When the parameter value is **0**, the alert will be disabled. When the parameter value is not 0, GPRS and SMS event flags will take effect automatically. When the fuel percentage is higher than or equal to the preset value, an alert will be generated and the alert event code is 52. Alert percentage lower limit: When the parameter value is **0**, the alert will be disabled. When the parameter value is not 0, GPRS and SMS event flags will take effect automatically. When the fuel percentage is lower than or equal to the preset value, an alert is generated and the alert event code is 53. If you want to modify a parameter, other parameters need to be left blank and separators "," must be remained. If you only send **C47**, all parameter values will be initialized to 0. All the parameter values are decimal characters. R-type fuel level sensor: resistive fuel level sensor C-type fuel level sensor: capacitive fuel level sensor V-type fuel level sensor: voltage-type fuel level sensor A53 and A54 are V-type fuel level sensors.
Applicable Model	T633L
Example	
GPRS Sending	@@f33,353358017784062,C47,2,90,10*0A\r\n
GPRS Reply	$$f28,353358017784062,C47,OK*1C\r\n

3.50 Reading Fuel Parameters – C48

GPRS Sending	C48
GPRS Reply	C48,*Sensor type*,*Alert percentage upper limit*,*Alert percentage lower limit*
Description	The format of returned parameters is the same as that of the C47 command. All the parameter values are decimal characters.
Applicable Model	T633L

Example	
GPRS Sending	@@c25,353358017784062,C48*89\r\n
GPRS Reply	$$c33,353358017784062,C48,2,90,10*D0\r\n

3.51 Setting the Fuel Theft Alert – C49

GPRS Sending	C49,*Fuel theft alert detection time*,*Fuel decrease percentage*
GPRS Reply	C49,OK
Description	Fuel theft alert detection time: Decimal; unit: minute. The parameter value ranges from **0** to **255**. The default parameter value is **3**. When the parameter value is **0**, the fuel theft alert is disabled. Fuel decrease percentage: Decimal. The parameter value ranges from **0** to **100**. The default parameter value is **2**. When the parameter value is **0**, the fuel theft alert is disabled. By default, when the fuel decrease percentage is 2% within three minutes, a fuel theft alert will be generated (for example, **C49,3,2**). Note: The fuel decrease percentage must be more than two times larger than that of the fuel level sensor accuracy. For example, if the fuel level sensor accuracy is 10 mm and its height is 500 mm, the recommended fuel decrease percentage is 4% (10/500 x 2).
Applicable Model	T633L
Example	
GPRS Sending	@@c29,353358017784062,C49,3,2*4B\r\n
GPRS Reply	$$c28,353358017784062,C49,ok*5B\r\n

3.52 Setting the Driving License Type – C50

GPRS Sending	C50,*Driving license type 1*,*Driving license type 2*,…*Driving license type n*
GPRS Reply	C50,OK
Description	Driving license type: The parameter value ranges from **0** to **65535**. At most 16 driving license types are supported. The default parameter value is **0**, which means no driving license type is set. If you want to read all driving license types, send **C50**. After a new parameter value is set, the existing parameter value will be deleted.
Applicable Model	T633L
Example	
GPRS Sending	@@c29,353358017784062,C50,22,24*A8\r\n
GPRS Reply	$$c28,353358017784062,C50,ok*53\r\n

3.53 Setting Buzzer's Buzzing Time – C51

GPRS Sending	C51,*Longest buzzing time*
GPRS Reply	C51,OK
Description	Longest buzzing time: The parameter value ranges from **0** to **255**. The default parameter

	value is **10**. Unit: minute. When the parameter value is **0**, the buzzer will make a buzzing sound all the time once it is triggered.
Applicable Model	T633L
Example	
GPRS Sending	@@c29,353358017784062,C51,30*16\r\n
GPRS Reply	$$c28,353358017784062,C51,ok*54\r\n

3.54 Setting the Valid Time after Swiping Cards – C52

GPRS Sending	C52,*Valid time after swiping cards*
GPRS Reply	C52,OK
Description	Valid time after swiping cards: The parameter value ranges from **0** to **255**. The default parameter value is **10**. Unit: minute. When the parameter value is **0**, the operation of swiping cards is invalid.
Applicable Model	T633L
Example	
GPRS Sending	@@c29,353358017784062,C52,10*15\r\n
GPRS Reply	$$c28,353358017784062,C52,ok*55\r\n

3.55 Setting the Microphone and Speaker – C69

GPRS Sending	C69,*Microphone volume*,*Speaker volume*
GPRS Reply	C69,OK
Description	Microphone volume: decimal. The parameter value ranges from **0** to **10**. When the parameter value is **0**, the microphone will be muted. Speaker volume: decimal. The parameter value ranges from **0** to **10**. When the parameter value is **0**, the speaker will be muted.
Applicable Model	T633L
Example	
GPRS Sending	@@c31,353358017784062,C69,1,1*43\r\n
GPRS Reply	$$c28,353358017784062,C69,ok*5D\r\n

3.56 Setting the RS232 Serial Port and Peripheral – C70

GPRS Sending	C70,*X*,*Y*
GPRS Reply	C70,OK
Description	X: Select a serial port. X = 1: RS232-1 port X = 2: RS232-2 port Y: Select a peripheral; decimal. (The default peripheral is the camera.) Y = 0: camera Y = 1: handset Y = 2: LED display

	Y = 3: A21 Y = 4: RFID Y = 11: magnetic card reader
Applicable Model	T633L
Example	
GPRS Sending	@@c31,353358017784062,C70,1,1*3B\r\n
GPRS Reply	$$c28,353358017784062,C70,ok*55\r\n

3.57 Powering Off the Device by a Command – C76

GPRS Sending	C76
GPRS Reply	C79,OK
Description	The device will be turned off automatically after receiving the command.
Applicable Model	T633L
Example	
GPRS Sending	@@c25,353358017784062,C76*8A\r\n
GPRS Reply	$$c28,353358017784062,C76,ok*5B\r\n

3.58 Setting the Power-off Function of the Power Button – C77

GPRS Sending	C77,*Value*
GPRS Reply	C77,OK
Description	Value = 1: You can turn off the device by its power button. Value = 0: You cannot turn off the device by its power button.
Applicable Model	T633L
Example	
GPRS Sending	@@c27,353358017784062,C77,1*EA\r\n
GPRS Reply	$$c28,353358017784062,C77,ok*5C\r\n

3.59 Deleting an Event in the Buffer – CFF

GPRS Sending	CFF,*Quantity of deleted data*
GPRS Reply	CFF,*CFF data packet*
Description	Quantity of deleted data: hexadecimal. In general, the number is 1. The data identifiers from the device and server must be consistent. Otherwise, data will not be deleted from the device. If data is transmitted in CFF format, send **CFF,FFFF** to delete all cache records and ensure that the data packet number sent from the server is consistent with that sent from the device. When the GPRS connection mode is UDP, send the CFF command to confirm that the server has received the data.

3.60 Obtaining a Picture – D00

GPRS Sending	D00,*File name*,*Picture data packet start number*
GPRS Reply	D00,*File name*,*Number of picture data packets*,*Current picture data packet number*,*Picture data*
Description	After obtaining the picture list by the D01 command, you can send the D00 command to obtain a picture from the device. File name: Indicates the name of a picture got from the device's memory card. Each picture has a unique file name. Picture data packet start number: Indicates the start number of a picture data packet. A picture can be divided into multiple data packets. The minimum parameter value is **0**, which means you read the picture from the first picture data packet. Number of picture data packets: Indicates the number of data packets of a picture. The minimum parameter value is **1**. Current picture data packet number: Indicates the number of a picture data packet that is sending. Picture data: Indicates the raw data of a picture; hexadecimal. After all picture data is obtained, a picture will automatically occur on the server. Note: When the device receives the D00 command, eight picture data packets will be uploaded consecutively. Wait for two seconds, then the server will send the D00 command to obtain picture data packets from the ninth picture data packet. The actions will be cycled until all picture data packets are uploaded.
Applicable Model	T633L
Example	
GPRS Sending	@@O48,353358017784062,D00,0215080432_C2E03.jpg,0*DB\r\n
GPRS Reply	The example cannot be displayed here because of hexadecimal characters. Please do a test based on actual conditions.

3.61 Obtaining the Picture List – D01

GPRS Sending	D01,*Picture data packet start number*
GPRS Reply	D01,*Number of picture data packets*,*Current picture data packet number*,*Picture name (1)*|*Picture name (2)*|…|*Picture name (n)*|
Description	Picture name (n): Indicates the name of a picture, which are separated by "|". Picture data packet start number: Indicates the start number of a picture list. The minimum parameter value is **0**. For example, when the parameter value is **0**, the picture list will be obtained from the first picture data packet. When the parameter value is **4**, the picture list will be obtained from the fifth picture data packet. Number of picture data packets: Indicates the number of data packets of a picture stored in the device's memory card. The minimum parameter value is **0**.
Example	
GPRS Sending	@@A27,353358017784062,D01,0*BB\r\n
GPRS Reply	$$A480,353358017784062,D01,3,0,0506162517_C1E03.jpg|0506162517_C1E11.jpg|05

	06162624_C1E03.jpg|0506162630_C1E11.jpg|0506162720_C1E03.jpg|0506162721_C1E03.jpg|0215080547_C1E03.jpg|0215080547_C1E11.jpg|0215080626_C1E03.jpg|0215080626_C1E11.jpg|0215080827_C1E03.jpg|0215080827_C1E11.jpg|0215080850_C1E03.jpg|0215080850_C1E11.jpg|0507145426_C1E03.jpg|0507145426_C1E11.jpg|0507145512_C2E03.jpg|0507145512_C2E11.jpg|0215080050_C3E03.jpg|0215080050_C3E11.jpg|0215080459_C3E03.jpg|021508050*41\r\n

3.62 Deleting a Picture – D02

GPRS Sending	D02,*Picture name (1)*|*Picture name (2)*|…|*Picture name (n)*|
GPRS Reply	D02,OK
Description	Picture name (n): Indicates the name of the picture to be deleted. Multiple pictures can be deleted simultaneously. Picture names are separated by "|".
Applicable Model	T633L
Example	
GPRS Sending	@@E110,353358017784062,D02,0506162517_C1E03.jpg|0506162517_C1E11.jpg|0506162624_C1E03.jpg|0506162630_C1E11.jpg|*4E\r\n
GPRS Reply	$$F28,353358017784062,D02,OK*F4\r\n

3.63 Taking Photos on Demand – D03

GPRS Sending	D03,*Camera number*,*Picture name*
GPRS Reply	D03,OK
Description	Camera number: Indicates the number of a camera connected to the device. The minimum parameter value is **1**, which means the first camera. The maximum parameter value depends on the number of cameras connected to the device. In general, the maximum parameter value is **2**. Picture name: Indicates the name of a picture on the platform.
Applicable Model	T633L
Example	
GPRS Sending	@@D46,353358017784062,D03,1,camera_picture.jpg*21\r\n
GPRS Reply	$$D28,353358017784062,D03,OK*F3\r\n

3.64 Authorizing an RFID Card/iButton Key – D10

GPRS Sending	D10,*RFID(1)*,*RFID(2)*,...,*RFID(n)*
GPRS Reply	D10,OK
Description	RFID(n): Indicates the number of the RFID card to be authorized. The parameter value ranges from **1** to **4294967295**. Decimal. A maximum of 50 RFID cards can be authorized at a time.
Applicable Model	T633L
Example	

GPRS Sending	@@f43,353358017784062,D10,13737431,13737461*17\r\n
GPRS Reply	$$f28,353358017784062,D10,OK*13\r\n

3.65 Authorizing RFID Cards/iButton Keys in Batches – D11

GPRS Sending	D11,*RFID card start number*,*n*
GPRS Reply	D11,OK
Description	RFID card start number: The parameter value ranges from **1** to **4294967295**. Decimal. n: Indicates the number of RFID cards to be authorized in batches. Decimal. The parameter value ranges from **1** to **128**.
Applicable Model	T633L
Example	
GPRS Sending	@@e36,353358017784062,D11,13737431,1*AA\r\n
GPRS Reply	$$e28,353358017784062,D11,OK*13\r\n

3.66 Checking RFID/iButton Authorization – D12

GPRS Sending	D12,RFID ID/iButton ID
GPRS Reply	D12,*n*
Description	RFID ID: The parameter value ranges from **1** to **4294967295**. Decimal. n: When the parameter value is not 0, the RFID card is authorized. When the parameter value is **0**, the RFID card is not authorized.
Applicable Model	T633L
Example	
GPRS Sending	@@C34,353358017784062,D12,13737431*2A\r\n
GPRS Reply	$$C27,353358017784062,D12,0*87\r\n

3.67 Reading an Authorized RFID Card/iButton Key – D13

GPRS Sending	D13,*RFID/iButton data packet start number*
GPRS Reply	D13,*Number of RFID data packets*,*Current RFID data packet number*,*RFID(1)RFID(2)…RFID(n)*
Description	RFID data packet start number: Indicates the start number of an RFID data packet. The minimum parameter value is **0**. For example, when the parameter value is **0**, the package list will be obtained from the first RFID data packet. When the parameter value is **4**, the package list will be obtained from the fifth RFID data packet. Number of RFID data packets: Indicates the number of authorized RFID data packets. One RFID data packet includes a maximum of 100 RFID ID numbers. The minimum parameter value is **0**. RFID(n): An RFID ID number contains eight hexadecimal characters.
Applicable Model	T633L
Example	

GPRS Sending	@@w27,353358017784062,D13,0*F4\r\n
GPRS Reply	The example cannot be displayed here because of hexadecimal characters. Please do a test based on actual conditions.

3.68 Deleting an Authorized RFID Card/iButton Key – D14

GPRS Sending	D14,*RFID(1)*,*RFID(2)*,…,*RFID(n)*
GPRS Reply	D14,OK
Description	RFID(n): Indicates the RFID ID number to be deleted. The parameter value ranges from **1** to **4294967295**. Decimal. A maximum of 50 RFID cards can be deleted at a time. One SMS (including the protocol part) cannot exceed 140 bytes.
Applicable Model	T633L
Example	
GPRS Sending	@@Q34,353358017784062,D14,13723455*3B\r\n
GPRS Reply	$$Q28,353358017784062,D14,OK*02\r\n

3.69 Deleting Authorized RFID Cards/iButton Keys in Batches – D15

GPRS Sending	D15,*RFID card start number*,*n*
GPRS Reply	D15,OK
Description	RFID card start number: The parameter value ranges from **1** to **4294967295**. Decimal. n: Indicates the number of RFID cards to be deleted in batches. Decimal. The parameter value ranges from **1** to **128**. When the RFID card start number is a value ranging from **1** to **4294967295** and **n** is greater than or equal to **65536**, all authorized RFID cards will be deleted.
Applicable Model	T633L
Example	
GPRS Sending	@@K36,353358017784062,D15,13723455,3*97\r\n
GPRS Reply	$$K28,353358017784062,D15,OK*FD\r\n

3.70 Checking the Checksum of the Authorized RFID/iButton ID Database – D16

GPRS Sending	D16
GPRS Reply	D15,XOR
Description	This command is used to check whether the existing authorized RFID ID database is consistent with that recorded in the server. When the device receives the D16 command, the XOR result of all authorized RFID ID numbers is regarded as the database checksum for responding. After the server receives the checksum, compare it with the XOR result of all authorized RFID ID numbers recorded in the server. If the result is the same, the existing authorized RFID ID database is consistent with that recorded in the server. Otherwise, data errors occur in the authorized

	RFID ID database.
Applicable Model	T633L
Example	
GPRS Sending	@@u25,353358017784062,D16*97\r\n
GPRS Reply	$$u28,353358017784062,D16,18*F7\r\n

3.71 Setting Harsh Acceleration and Harsh Braking Parameters – D79

GPRS Sending	D79,*X*,*Y*
GPRS Reply	D79,OK
Description	X: Indicates the harsh acceleration alert value. Decimal; unit: mG; value range: [90…1000]; default parameter value: **230**. Y: Indicates the harsh braking alert value. Decimal; unit: mG; value range: [-1500…-100]; default parameter value: **-300**.
Applicable Model	T633L
Example	
GPRS Sending	@@B34,865328022075252,D79,230,-300*15\r\n
GPRS Reply	$$B28,865328022075252,D79,OK*F9\r\n

3.72 Reading Device's Firmware Version and SN – E91

GPRS Sending	E91
GPRS Reply	E91,*Version*,*SN*
Description	This command is used to read the device's firmware version and SN.
Applicable Model	T633L
Example	
GPRS Sending	@@W25,353358017784062,E91*7D\r\n
GPRS Reply	$$W38,353358017784062,FWV1.00,12345678*1C\r\n

3.73 Restarting the GSM and GPS Module – F00

GPRS Sending	F00,*GSM*,*GPS*
GPRS Reply	F00,OK
Description	GSM: The parameter value is **0** or **1**. **0**: no operation. **1**: Restart the GSM module. GPS: The parameter value is **0** or **1**. **0**: no operation. **1**: Restart the GPS module. This command is used to restart the GSM and GPS modules.
Applicable Model	T633L
Example	
GPRS Sending	@@j25,353358017784062,F00*87\r\n
GPRS Reply	$$j28,353358017784062,F00,OK*18\r\n

3.74 Restarting the GSM Module – F01

GPRS Sending	F01
GPRS Reply	F01,OK
Description	This command is used to restart the GSM module.
Applicable Model	T633L
Example	
GPRS Sending	@@j25,353358017784062,F01*88\r\n
GPRS Reply	$$j28,353358017784062,F01,OK*19\r\n

3.75 Restarting the GPS Module – F02

GPRS Sending	F02
GPRS Reply	F02,OK
Description	This command is used to restart the GPS module.
Applicable Model	T633L
Example	
GPRS Sending	@@Z25,353358017784062,F02*79\r\n
GPRS Reply	$$Z28,353358017784062,F02,OK*0A\r\n

3.76 Setting the Mileage and Run Time – F08

GPRS Sending	F08,*Run time*,*Mileage*
GPRS Reply	F08,OK
Description	Run time: The parameter value ranges from **0** to **4294967295**. Decimal; unit: second. If you do not want to set the parameter, leave it blank. Mileage: The parameter value ranges from **0** to **4294967295**.Decimal; unit: meter. If you do not want to set the parameter, leave it blank.
Applicable Model	T633L
Example	
GPRS Sending	@@D40,353358017784062,F08,0,4825000*51\r\n
GPRS Reply	$$D28,353358017784062,F08,OK*FA\r\n

3.77 Deleting SMS or GPRS Cache Data – F09

GPRS Sending	F09,*Number*
GPRS Reply	F09,OK
Description	Number = 1: SMS cache data to be sent is deleted. Number = 2: GPRS cache data to be sent is deleted. Number= 3: SMS and GPRS cache data to be sent is deleted.
Applicable Model	T633L
Example	

GPRS Sending	@@E27,353358017784062,F09,1*CA\r\n
GPRS Reply	$$E28,353358017784062,F09,OK*FC\r\n

3.78 Restoring Initial Settings – F11

GPRS Sending	F11
GPRS Reply	F11,OK
Description	This command is used to restore initial settings except the SMS password.
Applicable Model	T633L
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.