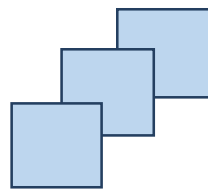


FIFOTRACK COMMAND LIST




Model: Q2

Version: V1.2

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Document History

Version	Revision Date	Author	Detail
V1.3	May 11, 2022	Vito Hu	Add <u>B73</u> command
V1.2	Mar 25, 2022	Vito Hu	Add <u>B36</u> command; Add 31 alarm code
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1 GPRS Command Format

GPRS uplink (i.e.: Data is sent from terminal to platform) command format:

\$\$<pack-len>,<ID>,<work-no>,<cmd-code>,<cmd-para>*<checksum>\r\n

GPRS downlink (i.e.: Data is sent form platform to terminal) command format:

##<pack-len>,<ID>,<work-no>,<cmd-code>,<cmd-para>*<checksum>\r\n

Remarks:

- ⊙ Comma (,) is used to separate data field, and it is necessary. There is no space before or after comma.
- ⊙ pack-len: Package Length, decimal string format, the field of *pack-len* is {,<ID>,<work-no>,<cmd-code>,<cmd-para>}, be careful, comma(,) in front of *ID* included.
- ⊙ ID: Terminal ID, default IMEI.
- ⊙ work-no: working number, hexadecimal string format, cyclic accumulation from 1 to 0xFFFF.
- ⊙ cmd-code: Command code, or specification of data type.
- ⊙ cmd-para: parameter or description of *cmd-code*, which is described in the following chapter.
- ⊙ checksum: checksum of package, 2 bytes hexadecimal string format, XOR of {<pack-len>,<ID>,<work-no>,<cmd-code>,<cmd-para>}
- ⊙ \r\n: End of package, i.e. <CR><LF>.
- ⊙ Without specification, multi-byte binary data in *cmd-para* uses big endian format, i.e. Most Significant Byte first.

2 SMS Command Format

Sending SMS (from mobile to tracker) command format:

<password>,<cmd-code>,<cmd-para>

Reply SMS (from tracker to mobile) data format:

<cmd-code>,<proc-result>

01 password: SMS password, 6 digits, default "000000". B10 command can be used to change password

02 cmd-code: command code, the same as cmd-code filed in GPRS command.

03 cmd-para: command parameter, the same as cmd-para filed in GPRS command.

04 proc-result: command process result

OK – Succeed.

05 SMS command with invalid password, or with incorrect format, no reply will be sent.

3 Serial port (COM) Command Format

Setting command format:

#<cmd-code>,<cmd-para><CR><LF>

Reply data format:

#<cmd-code>,<proc-result><CR><LF>

cmd-code, cmd-para: the same as corresponding filed of GPRS/SMS command.

proc-result: SMS command procession result

OK – Succeed.

UNSUPPORT – Command not supported.

FAILED –Procession failed.

4 Command Writing Specification

- ⦿ Comma (,) is used to separate multi-filed, there is no space before and after comma.
- ⦿ For command with multi parameters, filed(s) can be empty, the corresponding parameter is set to default.
- ⦿ The following chapters describe cmd-code and cmd-para.
- ⦿ The “Retrieve” row in the following chapters describes the corresponding query command.

5 Command List

B00 – Setting GPRS Parameters	
Source	GPRS/COM/SMS
Description	B00,<IP-domain>,<remote-port> 01 IP-domain: server IP or domain. 02 remote-port: server port.
Reply	B00,<err_code> 01 err_code: procession error code. OK – Succeed. UNSUPPORT – Command not supported. FAILED – Procession failed.
Example	B00,47.88.35.165,10502 01 Set main server: IP-47.88.35.165, port-10502.
Retrieve	C04,B00

B01 – Setting GPRS APN Parameters	
Source	GPRS/COM/SMS
Description	B01,<apn_name>,<apn_usr>,<apn_pwd> 01 apn_name: APN name. 02 apn_usr: APN user name. 03 apn_pwd: APN password. 04 Leave <u>apn_usr</u> and <u>apn_pwd</u> fields empty, if neither APN username nor APN password exists. 05 Contact to local ISP for APN detail.
Reply	B01,<err_code> 01 err_code: procession error code. OK – Succeed. UNSUPPORT – Command not supported. FAILED – Procession failed.
Example	B01,cmnet 01 Set APN name to “cmnet”, APN login username and password empty.
Retrieve	C04,B01

B02 – Setting GPRS Link Protocol	
Source	GPRS/COM/SMS

Description	B02,<link_type> 01 link_type: Link protocol, value “TCP” or “UDP”. 02 default “TCP” protocol.
Reply	B02,<err_code> 01 err_code: procession error code. OK – Succeed. UNSUPPORT – Command not supported. FAILED – Procession failed.
Example	B02,TCP 01 Set link protocol to TCP.
Retrieve	C04,B02

B03 – Setting Tracking Time Interval

Source	GPRS/COM/SMS
Description	B03,<moving_tmr>,<stop_tmr> 01 moving_tmr: time interval when moving, unit s, default 30s. When <u>moving_tmr==0</u> , tracking disabled for moving status. 02 stop_tmr: time interval when stop, unit s, default 30s. When <u>stop_tmr==0</u> , tracking disabled for stop status 03 When <u>stop_tmr</u> field empty, it is set to the same value as <u>moving_tmr</u>
Reply	B03,<err_code> 01 err_code: procession error code. OK – Succeed. UNSUPPORT – Command not supported. FAILED – Procession failed.
Example	B03,60 01 Set both <u>moving_tmr</u> and <u>stop_tmr</u> to 60s, tracker uploads position data every 60s. B03,60,0 01 Set <u>moving_tmr</u> to 60s, and <u>stop_tmr</u> to 0, tracker uploads data every 60s when moving, and stops uploading for stop status.
Retrieve	C04,B03

B10 – Setting SMS Password

Source	GPRS/COM/SMS
Description	B10,<sms_pwd> 01 sms_pwd: SMS password, 6 digits, default “000000”.
Reply	B10,<err_code> 01 err_code: procession error code. OK – Succeed.

	<p>UNSUPPORT – Command not supported. FAILED – Proccession failed.</p>
Example	<p>B10,472627 01 Set SMS password to “472627”.</p> <p>B10,47262A 01 Invalid command, because SMS password needs to be a 6 digits string.</p>
Retrieve	C04,B10

B11 – Setting SOS Number

Source	GPRS/COM/SMS
Description	<p>B11,<sos_num1>,<sos_num2>,<sos_num3> 01 sos_num1, 2, 3: SOS numbers to be set; 3 numbers can be set at most. 02 Refer to B23 for the function of SOS number(s).</p>
Reply	<p>B11,<err_code> 01 err_code: proccession error code. OK – Succeed. UNSUPPORT – Command not supported. FAILED – Proccession failed.</p>
Example	<p>B11,15698210011,,15698210200 01 Set <u>sos_num1</u> to 15698210011, <u>sos_num2</u> to empty, <u>sos_num3</u> to 15698210200.</p>
Retrieve	C04,B11

B14 – Setting SMS Time Zone

Source	GPRS/COM/SMS
Description	<p>B14,<tzone> 01 tzone: time zone, range [-12, 12]. 02 Default value of <u>tzone</u> is 0. 03 When SMS time zone is set, all tracking/alarm SMS use <u>tzone</u> for date & time. 04 B14 setting doesn’t affect date & time in GPRS package, which always uses UTC-0 time zone.</p>
Reply	<p>B14,<err_code> 01 err_code: proccession error code. OK – Succeed. UNSUPPORT – Command not supported. FAILED – Proccession failed.</p>
Example	B14,-8
Retrieve	C04,B14

B17 – Clear Blind Data	
Source	GPRS/COM/SMS
Description	B17,<data_type> 01 data_type: blind data type. 1 – GPRS Blind. 2 – SMS blind. 3 – Both GPRS and SMS blind.
Reply	B17,<err_code> 01 err_code: procession error code. OK – Succeed. UNSUPPORT – Command not supported. FAILED – Procession failed.
Example	B17,3 01 Clear both GPRS and SMS blind data.
Retrieve	UNSUPPORT

B19 – Setting Circle geo-fence	
Source	GPRS/COM/SMS
Description	B19,<index>,<flag>,<radius>,<lat>,<lon> 01 index: fence index, value 1~4, i.e.: 4 geo-fence can be set at most. 02 flag: alarm flag flag=1: Trigger alarm when exit fence. flag=2: Trigger alarm when enter fence. flag=3: Trigger alarm both enter and exit fence. 03 radius: radius of circle geo-fence, unit meter. 04 lat: latitude of center point, decimal string format. 05 lon: longitude of center point, decimal string format. 06 When <i>flag</i> , <i>radius</i> , <i>lat</i> , <i>lon</i> are empty, delete geo-fence specified by <i>index</i> ; When <i>index</i> =0 or empty, delete all.
Reply	B19,<err_code> 01 err_code: procession error code. OK – Succeed. UNSUPPORT – Command not supported. FAILED – Procession failed.
Example	
Retrieve	C04,B19,<index> 01 index: fence index, value 1~8, the same as <i>index</i> field in setting command.

B23 – Setting Alarm Action

Source	GPRS/COM/SMS
Description	<p>B23,<alm-code>,<GPRS><SMS><two-way-call><monitor-call></p> <p>01 alm-code: Alarm type, refer to Appendix –A.</p> <p>02 GPRS: Disable/enable GPRS uploading.</p> <p>03 SMS: Disable/enable SMS to SOS number.</p> <p>04 two-way-call: Disable/enable SOS number dialing under two-way conversation, set to 0 for actual usage.</p> <p>05 monitor-call: Disable/enable SOS number dialing under monitor mode.</p> <p>06 When both <i>two-way-call</i> and <i>monitor-call</i> are set, <i>monitor-call</i> is valid, while <i>two-way-call</i> ignored.</p> <p>07 <i>two-way-call</i> or <i>monitor-call</i> is valid when SOS number set, refer to B11 command for SOS number(s) setting.</p>
Reply	<p>B23,<err_code></p> <p>01 err_code: procession error code.</p> <p>OK – Succeed.</p> <p>UNSUPPORT – Command not supported.</p> <p>FAILED – Procession failed.</p>
Example	<p>B23,2,1101</p> <p>01 Set action when SOS triggered:</p> <p>a Sending GPRS alarm data to platform.</p> <p>b Sending alarm SMS with C01 format to SOS number.</p> <p>c Dial SOS numbers under monitor mode.</p>
Retrieve	<p>C04,B23,<alm-code></p> <p>01 alm-code: Alarm type, refer to Appendix–A. The same as <i>alm-code</i> field in setting command.</p>

B26 – Setting Alarm SMS Head String

Source	GPRS/COM/SMS
Description	<p>B26,<alm-code>,<sms_string></p> <p>01 alm-code: Alarm type, refer to Appendix –A.</p> <p>02 sms_string: SMS head string, 16 bytes length at most.</p> <p>03 When send “B26” only, with <i>alm-code</i> and <i>sms_string</i> fields empty, set all head string to default</p> <p>04 Refer to Appendix-A for default string.</p>
Reply	<p>B26,<err_code></p> <p>01 err_code: error code.</p> <p>OK – Succeed.</p> <p>UNSUPPORT – Command not supported.</p> <p>FAILED –Processing failed.</p>
Example	B26,2,HELP

	01 Set SMS head string of SOS to "HELP".
Retrieve	C04,B26,<alm-code> 01 alm-code: Alarm type, refer to Appendix –A . The same as <i>alm-code</i> field in setting command.

B29 – Setting Sensitivity of Motion Sensor

Source	GPRS/COM/SMS
Description	B29,<level> 01 level: sensitivity of motion sensor, value [0, 100], default 10; the smaller value, the higher sensitivity
Reply	B29,<err_code> 01 err_code: procession error code. OK – Succeed. UNSUPPORT – Command not supported. FAILED – Procession failed.
Example	B29,20
Retrieve	C04,B29

B31 – Setting SOS Number Attribute

Source	GPRS/COM/SMS
Description	B31,<sos-num-idx>,<two-way-call>,<monitor>,<pos-sms> 01 Set SOS number attribute, refer to B11 command for SOS number setting. 02 sos-num-idx: SOS index, value 1, 2, 3, which corresponds to SOS number set by B11 command. 03 two-way-call: attribute of two-way conversation. 04 monitor: attribute of monitor-mode conversation. 05 pos-sms: attribute of position SMS. 06 Description of attributes: two-way-call: Pressing SOS button to pick up incoming phone-call in two-way conversation mode. monitor: tracker automatically picks up incoming phone-call in monitor mode. pos-sms: Tracker sends position SMS after incoming phone-call ends. Refer to C01 command for SMS format. 07 When both <i>two-way-call</i> and <i>monitor</i> are set, <i>monitor</i> is valid, i.e.: tracker picks up phone-call in monitor mode. 08 When the command string has only <i>sos-num-idx</i> field, default attribute is set to corresponding SOS number. 09 Default attribute of SOS number: <i>two-way-call</i> and <i>pos-sms</i> .
Reply	B31,<err_code> 01 err_code: procession error code.



	<p>OK – Succeed.</p> <p>UNSUPPORT – Command not supported.</p> <p>FAILED – Procession failed.</p>
Example	<p>B31,1,1,1,1</p> <p>01 Set attribute of the first SOS number: tracker automatically picks up incoming phone-call under monitor mode, reply a position SMS.</p>
Retrieve	<p>C04,B31,<sos-num></p> <p>01 sos-num: SOS index, value 1, 2, 3. The same as <u>sos-num</u> field in setting command.</p>

B36 – Setting Tilt Detection

Source	GPRS/COM/SMS
Description	<p>B36,<enable>,<pre-alarm-t>,<alarm-t>,<rst-on-motion></p> <p>01 Angle of detection exceeds 35°, and last for more than 10s, it is regards as “Tilt”</p> <p>02 enable: 0~Disable tilt detection (default); 1~Enable</p> <p>03 pre-alarm-t: pre-alarm duration, unit second, default 30s, range [0,1000]. When tilt detected, tracker starts vibrating motor and voice displaying to remind user</p> <p>04 alarm-t: Alarm trigger delay, unit second, default <u>alarm-t=pre-alarm-t</u>, range [0, <u>pre-alarm-t</u>]. After tilt detected, tracker do nothing but pre-alarm, and sends GPRS/SMS alarm package when <u>alarm-t</u> expired</p> <p>05 rst-on-motion: Reset on Motion. Shake to cancel pre-alarm and alarm trigger delay; After cancelled, vibrating motor and voice displaying will be stopped, and NO GPRS/SMS alarm package sent; When <u>rst-on-motion</u>=1, NO pre-alarm vibrating remind/voice display, nor tilt alarm triggered under continuous moving or walking status</p>
Reply	<p>B36,<err_code></p> <p>01 err_code: procession error code.</p> <p>OK – Succeed.</p> <p>UNSUPPORT – Command not supported.</p> <p>FAILED – Procession failed.</p>
Example	
Retrieve	C04,B36

B70 – Setting the Functions to Button

Source	GPRS/COM/SMS
Description	<p>B70,<hangup>,<pwroff-disable></p> <p>01 hangup: 1~Press SOS button to hang up phone-call conversation; 0 (default)~Disable hang-up function of SOS button</p> <p>02 pwroff-disable: 1~PWR key cannot be used to shut down device; 0 (default)~Long press PWR key can shut down device</p>
Reply	<p>B70,<err_code></p> <p>01 err_code: procession error code.</p>

	<p>OK – Succeed.</p> <p>UNSUPPORT – Command not supported.</p> <p>FAILED – Procession failed.</p>
Example	
Retrieve	C04,B70

B71 – Setting GPS/WIFI Order

Source	GPRS/COM/SMS
Description	<p>B71,<mode></p> <p>01 Device supports two methods for positioning, GPS and WIFI, and <u>B71</u> command is used to set the order of use</p> <p>02 mode: positioning mode, default <u>mode==0</u>, description as below</p> <p><u>mode==0</u>: Mandatory use GPS for all time, device uses GPS to get positioning information, and uploads to server whether GPS fixed or not.</p> <p><u>mode==1</u>: Device uses GPS first, and switch to WIFI for positioning when GPS failed</p> <p><u>mode==2</u>: Device uses WIFI first, and switch to GPS for positioning when no WIFI AP got</p> <p>03 Device uploads unfixed GPS package to server when neither GPS nor WIFI positioning succeed</p>
Reply	<p>B71,<err_code></p> <p>01 err_code: procession error code.</p> <p>OK – Succeed.</p> <p>UNSUPPORT – Command not supported.</p> <p>FAILED – Procession failed.</p>
Example	
Retrieve	C04,B71

B72 – Setting Reminder Mode for Incoming Phone-call

Source	GPRS/COM/SMS
Description	<p>B72,<incall-note></p> <p>01 When phone-call incoming, device can reminder user by voice ringer or vibration</p> <p>02 incall-note: Reminder mode</p> <p><u>incall-note==0</u>: No reminder for incoming phone-call</p> <p><u>incall-note==1</u>: voice ringer</p> <p><u>incall-note==2</u>: vibration</p> <p><u>incall-note==3</u> (default): Both voice ringer and vibration</p>
Reply	<p>B72,<err_code></p> <p>01 err_code: procession error code.</p> <p>OK – Succeed.</p> <p>UNSUPPORT – Command not supported.</p>

	FAILED – Procession failed.
Example	
Retrieve	C04,B72

B73 – Setting SOS Dial Interval

Source	GPRS/COM/SMS
Description	<p>B73,<sos-interval></p> <p>01 For some phones, voicemail answers incoming call when no person picks it up. It may cause device NO dialing the next SOS number. <u>B73</u> command can be used to avoid this situation.</p> <p>02 sos-interval: Interval of dialing SOS number, unit second, default 0. When the interval time arrived, device hangs up the current number, and dials the next one.</p> <p>03 Setting proper <u>sos-interval</u> according to actual situation.</p>
Reply	<p>B73,<err_code></p> <p>01 err_code: procession error code.</p> <p style="padding-left: 40px;">OK – Succeed.</p> <p style="padding-left: 40px;">UNSUPPORT – Command not supported.</p> <p style="padding-left: 40px;">FAILED – Procession failed.</p>
Example	
Retrieve	C04,B73

B90 – Restart Tracker or Module

Source	GPRS/COM/SMS
Description	<p>B90,<select></p> <p>01 select: option</p> <p style="padding-left: 40px;"><u>select==1</u>: Restart device.</p>
Reply	<p>B90,<err_code></p> <p>01 err_code: procession error code.</p> <p style="padding-left: 40px;">OK – Succeed.</p> <p style="padding-left: 40px;">UNSUPPORT – Command not supported.</p> <p style="padding-left: 40px;">FAILED – Procession failed.</p>
Example	<p>B90,1</p> <p>01 Restart device.</p>
Retrieve	UNSUPPORT

B91 – Setting Parameters to Default

Source	GPRS/COM/SMS
Description	B91



	01 After command is set, all system parameters (except SMS password) are set to default.
Reply	B91,<err_code> 01 err_code: procession error code. OK – Succeed. UNSUPPORT – Command not supported. FAILED – Procession failed.
Example	B91
Retrieve	UNSUPPORT

B94 – Turn on/off LED Display

Source	GPRS/COM/SMS
Description	B94,<led-on> 01 led-on: 1--turn on LED, 0--turn off LED. 02 Default, <u>led-on</u> =1.
Reply	B94,<err_code> 01 err_code: procession error code. OK – Succeed. UNSUPPORT – Command not supported. FAILED – Procession failed.
Example	B94 01 Set LED to default: turn on.
Retrieve	C04,B94

B99 – OTA using FTP Server

Source	GPRS/COM/SMS						
Description	B99,<file_name>,<option>,<ftp_address>,<ftp_port>,<ftp_loginid>,<ftp_loginpwd>,<apn>,<apn_name>,<apn_pwd> 01 file_name: file name for OTA, should be “xxx.bin” format 02 option: option for OTA, when the field empty, using default setting <table border="1"> <thead> <tr> <th>option</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0(default)</td> <td>Normal OTA, tracker check whether <u>file_name</u> match current version or not</td> </tr> <tr> <td>1</td> <td>Mandatory OTA, tracker doesn't check <u>file_name</u></td> </tr> </tbody> </table> 03 ftp_address: FTP server address, default 47.88.17.17 04 ftp_port: FTP server port, default 21 05 ftp_loginid, ftp_loginpwd: FTP login user-name and password, when fields empty, using default account on 47.88.17.17 06 apn, apn_name, apn_pwd: APN setting for FTP connection, default, tracker using the same setting as <u>B01</u> command	option	Description	0(default)	Normal OTA, tracker check whether <u>file_name</u> match current version or not	1	Mandatory OTA, tracker doesn't check <u>file_name</u>
option	Description						
0(default)	Normal OTA, tracker check whether <u>file_name</u> match current version or not						
1	Mandatory OTA, tracker doesn't check <u>file_name</u>						



	<p>07 After <i>B99</i> command received, tracker matches <i>file_name</i> to current firmware version, and starts OTA according to result</p> <p>08 During OTA operation, tracker will disconnect from tracking server, stop timing uploading/photographing.</p> <p>09 The timeout for FTP OTA is 15mins, when exceed, tracker will restart automatically, and connect to tracking server</p> <p>10 External power connection is needed during OTA operation, it is used for tracking reboot after OTA finished</p>
Reply	<p>B99,<err_str></p> <p>01 err_str: Error code, string format</p> <p>“Invalid BIN file, <ver>” - <i>file_name</i> doesn't match current firmware version, while <i>ver</i> is the current firmware version</p> <p>“No ext-pwr, Please Plug-in Charging Cable” – External power disconnect</p> <p>“The Same Version” – <i>file_name</i> has the same version to current firmware version</p> <p>“B99,OK” – OTA start</p>
Example	<p>B99,Q2-V1.02.bin</p> <p>01 Start OTA, tracker will connect to 47.88.17.17:21, using default FTP account for file download</p> <p>B99,Q2-V1.02.bin,1,120.24.95.123,9208,klone,klone@@2017</p> <p>01 Start OTA, tracker will connect to <u>120.24.95.123:9208</u>, and upgrade to “<u>Q2-V1.02.bin</u>”</p> <p>02 The login name and password of FTP server is “<u>klone</u>” and “<u>klone@@2017</u>”</p>
Retrieve	

C01 – Retrieve Position Information

Source	COM/SMS/GPRS
Description	<p>C01</p> <p>01 After command is set, tracker sends a position message.</p> <p>02 When alarm detected, tracker sends alarm SMS with C01 format automatically, to all SOS number(s).</p> <p>03 When command is sent via GPRS, tracker replies normal position data.</p>
Reply	<p>When command is sent via GPRS, the replied data is normal position package.</p> <p>When command is sent via SMS/COM</p> <p><sms_string_head>,yyyy-MM-dd hh:mm:ss,<gps_fix>, <a href="http://maps.google.com/maps?q=<Latitude>,<Longitude>&t=m">http://maps.google.com/maps?q=<Latitude>,<Longitude>&t=m</p> <p>a sms_string_head: SMS head string, for normal position data, sms <u>string head</u> is empty; for alarm data, refer to <u>Appendix-A</u> for default string.</p> <p>b yyyy-MM-dd hh:mm:ss: current date & time, which is effected by <u>B14</u> command setting.</p> <p>e gps_fix: GPS signal status, 'A'-fixed, 'V'-not fixed.</p>



	g Latitude, Longitude: Latitude and longitude of last position point.
Example	Command: C01 Reply: 2021-06-29 06:12:50,V, http://maps.google.com/maps?q=22.643138,114.018001&t=m
Retrieve	UNSUPPORT

C02 – Retrieve Firmware/Hardware Version, SN, IMEI

Source	GPRS/COM/SMS
Description	C02
Reply	Uploading data format: C02,<IMEI>,<SN>,<fw_ver>,<hw_ver> 01 IMEI: IMEI of tracker. 02 SN: Serial number of tracker. 03 fw_ver: Firmware version. 04 hw_ver: Hardware version.
Example	C02
Retrieve	UNSUPPORT

C03 – Retrieve Supply Power Status

Source	GPRS/COM/SMS
Description	C03
Reply	Uploading data format: C03,<bat_v>,<bat_percentage>[,charging] 01 bat_v: Voltage of internal battery. 02 bat_percentage: Percentage of internal battery capacity. 03 charging: The field is used to indicate the charging status. When charging cable plug-in, this field is “Charging”; When cable plug-out, the field is empty
Example	C03 Reply: C03,3.80,50%,Charging
Retrieve	UNSUPPORT

C04 – Retrieve Parameter Setting

Source	GPRS/COM/SMS
Description	C04,<cmd-code>,<query_para> 01 cmd-code: Command code to be retrieved. 02 query_para: Query parameter; refer to chapters above for detail.
Reply	C04,<cmd>,<cmd-para>

	01 cmd-code: The same as sending command. 02 cmd-para: Retrieved parameter string, the same format as setting command described in the above chapters.
Example	Refer to chapters above.
Retrieve	UNSUPPORT

C06 – Retrieve Basic Information of Tracker

Source	GPRS/COM/SMS
Description	C06 01 Retrieve basic information of tracker in batch 02 The command is commonly used for GPRS linkage lost debug
Reply	C06,<GID>,<ip>:<port>,<TCP/UDP>;APN:<apn>,<apn_user>,<apn_pwd>;BAT:<bat_v>;B03:<base_int>,<stop_int>;<Moving/STOP>;B71:<mode>;Cache:<cache-num> 01 GID: Tracker ID for GPRS data, default IMEI 02 ip, port: Server setting in tracker 03 TCP/UDP: Transport protocol setting, string, value “TCP” or “UDP” 04 apn, apn_user, apn_pwd: APN setting in tracker, which can be set using B01 command 05 bat_v: Voltage of internal battery, unit V 06 base_int, stop_int: GPRS uploading interval, which is the same as B03 setting 07 Moving/STOP: Current motion status, string, value “Moving” or “STOP” 08 mode: WIFI/GPS positioning mode, refer to B71 command for detail 09 cache-num: Saved GPRS blind data num, which is not sent, and will be sent when GPRS connected
Example	Command: C06 Reply: C06,863921032078944,173.212.241.52:10502,TCP;APN:CMNET,,,BAT:3.93V;B03:30,600;Stop;B71:0;Cache:0
Retrieve	UNSUPPORT

S09 – Setting GPRS Heartbeat Interval

Source	GPRS/COM/SMS
Description	S09,<moving-interval>,<stop-interval> 01 Heartbeat package is independent from normal GPRS position one 02 moving-interval: Heartbeat interval for moving status, unit s, default 0s 03 stop interval: Heartbeat interval for stop status, unit s, default 0s 04 When <u>moving-interval</u> ==0 or <u>stop-interval</u> ==0, heartbeat disabled for corresponding status 05 When <u>stop-interval</u> field empty, <u>stop-interval</u> is set to the same value as <u>moving-interval</u> 03 Heartbeat data will not be saved to blind buffer; When new heartbeat package generated, old and unsent one will be discarded



Reply	<p>S09,<err_code> 01 err_code: procession error code. OK – Succeed. UNSUPPORT – Command not supported. FAILED – Procession failed.</p>
Example	<p>S09,60 01 Set both <u>moving-interval</u> and <u>stop-interval</u> to 60s, tracker uploads heartbeat every 60s for all time</p> <p>S09,60,0 01 Set <u>moving-interval</u> to 60s, and <u>stop-interval</u> to 0s, tracker uploads heartbeat every 60s when moving, and stops uploading for stop status</p>
Retrieve	C04,S09

Appendix A – Alarm code and alarm parameter

The following table describes the relationship of *alm-code* and *alm-para* in GPS Position/Alarm data:

alm-code	alm-para	Description	SMS Head String
2	NULL	Input1 active	SOS
17	Battery voltage, unit V	Internal battery low	Low Battery
31	NULL	Tilt/Man Down	Tilt
33	NULL	Exit geo-fence	Exit Fence
34	NULL	Enter geo-fence	Enter Fence