

## Command Communication Protocol



Sr. No.	Command	Purpose of Command	Response	Remark
1	(700160818000,1,001,BASE,1)	Query the device Firmware version, and GSM module, SIM card CCID, GSM IMEI, CELL CODE		
2	(700160818000,1,001,BASE,2,20111018123820)	When testing the device indoors for the first time, because the device cannot be positioned and cannot be timed by GPS, User can synchronize the device GPS time by this command; When the device is online for the first time, the device will actively send a timing request (700160818000,1,001,BASE,2,TIME) , it's better the platform will send this BASE,2 command to the device when it receives this timing request command content.		
3	(700160818000,1,001,BASE,3)	Restart device remotely When the device receives this command, it restarts immediately, the platform may not receive the command response reply		
4	(700160818000,1,001,BASE,4,1)	Restore factory setting of the device		
5	(700160818000,1,001,BASE,5)	Query the current location of the device and the device status information, and the short message content will be sent to the VIP mobile phone number. Note: This command was added in firmware version 20220309 and later.		
6	(700160818000,1,001,BASE,5,1,1,1,1,1,1,1,1,1,1) (700160818000,1,001,BASE,5,1,3,1,1,1,1,1,3,3,1,1)	Query/Set alarm switch for GPRS and SMS channel Note: firmware version 20220111 and later version, Please use BASE,48 command.		
7	(700160818000,1,001,BASE,6,1,60,30) (700160818000,1,001,BASE,6,0)	Query/Set Data reporting interval when device is waken up, and RTC timing wake-up time interval. In the default configuration, conditions such as vibration, back cover opened, RFID card swiping, bluetooth commands and charging will wake up the device. After the device wakes up, it will send position data at the data reporting interval. In other cases, the device is in the standby sleep state, and will		

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		report position data at the RTC timing wakeup time interval.		
8	(700160818000,1,001,BASE, 7,1,1) (700160818000,1,001,BASE, 7,0)	Query/set SMS or calling wake up device SMS or calling wake up device: After turning on this function, no matter the device is in sleep or waking state, it can wake up the device to work and reply to SMS commands. Default, The device does not enable the SMS or calling wake-up function. After the SMS wake-up function is turned on, the device will increase power consumption and reduce the total working time		
9	(700160818000,1,001,BASE, 8,1,480) (700160818000,1,001,BASE, 8,1,-60)	Query /set time difference of position data. Note: In the default configuration, the device will report position data in UTC time. By sending this command,clients can configure the device to report position data(GPRS) according to this time difference.		
10	(700160818000,1,001,BASE, 9,1,8613998765432,0,0,0) (700160818000,1,001,BASE, 9,1,8613998765432,8615098 765432,0,0,0) (700160818000,1,001,BASE, 9,0)	Query/Set VIP phone numbers to receive or send short message command ,or phone calling to wake up the device. If no VIP mobile number is set, the mobile number of the first SMS command will be used as the VIP number 1		
11	(700160818000,1,001,BASE, 10,1,jtlock.jointcontrols.com ,10004,120.24.26.10,10004 ,internet,gprs,gprs) (700160818000,1,001,BASE, 10,1,jtlock.jointcontrols.com ,10004,,internet,gprs,gpr s) (700160818000,1,001,BASE, 10,0)	Query/set main host and backup IP address(Or domain),TCP port,APN,APN account. If your platform doesn't have backup IP address,keep it blank		
12	(700160818000,1,001,BASE, 32,1,60,180,420,480,720,143 9) (700160818000,1,001,BASE, 32,0) (700160818000,1,001,BASE, 32,2)	Query/Set/ wake up device by time clock. The device will report one position data after wake up. Max support 12 Clocks. Note: The order of priority is Deep Sleep Mode > Tracking Mode > Time clock Mode > Standby Sleep Mode		

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		e.g. After the tracking mode is enabled, even if this BASE,32 command is set, the device will continue to update the position data until the battery is below 5% and enter the deep sleep mode.		
13	(700160818000,1,001,BASE,40,1,1) (700160818000,1,001,BASE,40,0)	Query/Set Only VIP mobile phone number query and device configuration are allowed.		
14	(700160818000,1,001,BASE,43,1,10) (700160818000,1,001,BASE,43,0)	Query/Set Mileage accumulation function		
15	(700160818000,1,001,BASE,44,1,1) (700160818000,1,001,BASE,44,0)	Query/set GPS static drift optimization. When the device is stationary, the number of satellites received by the device's GPS module at different times is different, and the output latitude and longitude will change. Because of this situation, the phenomenon of changes in the location of the device when it is stationary, we call it GPS static drift. After turning on this function, the device can only update the current real-time latitude and longitude information when the device GSENSOR detects vibration or movement, otherwise the last valid latitude and longitude information will be kept continuously.default, this function is enabled.		
16	(700160818000,1,001,BASE,48,1,1,1,1,1,1,1,1,1,1,1) (700160818000,1,001,BASE,48,1,3,1,1,1,1,1,3,3,1,1,1)	Query/Set alarm switch for GPRS and SMS channel Note: This command was added in firmware version 20220111 and later.		
17	(700160818000,1,001,BASE,60,1,2) (700160818000,1,001,BASE,60,0)	Query/set 4G module working network Note: This command was added in firmware version 20220830 and later.		
18	(700160818000,1,001,BASE,62,1,1) (700160818000,1,001,BASE,62,0)	Query/set IMEI field reporting By default, this feature is turned off. After it is enabled, the device will report the IMEI number of the device in the position data. 0xF2 field		

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		<p>Note: This command was added in firmware version 20220309 and later</p>		
19	<pre>// Set authentication password (feature code) of the device (700160818000,1,001,BASE,64,1,ASD123456) //Verify authentication password (feature code) of the device (700160818000,1,001,BASE,64,3,ASD123456) //Cancel authentication password (feature code) of the device (700160818000,1,001,BASE,64,2)</pre>	<p>① This function is used for on-site configuration authority authentication. If the verification code is empty, it will be disabled. Otherwise, when the device needs to be configured/queried on site, it is necessary to send BASE,64,3 command authentication first. If the authentication is successful, there will be 60 seconds to query the configuration parameters. During this period, check frames can be sent at intervals to maintain communication;</p> <p>② Mainly restrict serial ports, NFC, Bluetooth, WIFI, SMS channels, and these on-site channels are only valid for authority verification;</p> <p>③ The TCP channel(Platform) is not restricted by the authentication code, that is, the query/set device parameters can be done without authentication first;</p> <p>④ BASE,1 command querying firmware version is not restricted by certification, OTA commands is not restricted.</p> <p>Note:</p> <p>1. This command was added in firmware version 20220830 and later.</p> <p>2. After setting the authentication password, if you want to unlock it through the SMS channel, you need to send BASE,64,3, command to verify the authentication password first, and then send ELOCK,5, command to unlock it. Otherwise the lock cannot be unlocked.</p> <p>Currently considering the next firmware version, the restriction on the SMS channel will be removed.</p>		
20	<pre>(700160818000,1,001,BASE,68,1,1,3,30) (700160818000,1,001,BASE,68,0)</pre>	<p>Query/set Turning report</p> <p>This function is turned off by default. After it is turned on, it will increase the data traffic of the SIM card.</p> <p>Note:</p> <p>This command was added in firmware version 20221111 and later.</p>		
21	<pre>(700160818000,1,001,BASE,72,1,20) (700160818000,1,001,BASE,72,0)</pre>	<p>Query and set the percentage of battery level which the device enters deep sleep mode.</p> <p>The default is 5%.</p> <p>When the battery power of the device is lower than 5%, it will enter the deep sleep mode.</p>		

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		<p>In this mode, the GPS and GSM communication modules are turned off, and can't reports position data. Swipe the RFID authorization card to unlock, open the back cover of the device, and charge the device to wake up the device.</p> <p>Note: In the deep sleep state, vibration cannot wake up the device.</p>		
22	(700160818000,1,001,BASE,73,1,1) (700160818000,1,001,BASE,73,0)	Query and set disable RFID card unlock when device in deep sleep mode. This is a customized feature. Standard firmware version doesn't support this command. Standard firmware, when the device enters deep sleep mode, it can be unlocked by swiping the RFID card, and but will not report any data until it is charged		
23	(700160818000,1,001,BASE,73,1,1) (700160818000,1,001,BASE,73,0)	Query and set disable RFID card unlock when device in deep sleep mode. This is a customized feature. Standard firmware version doesn't support this command. Standard firmware, when the device enters deep sleep mode, it can be unlocked by swiping the RFID card, and but will not report any data until it is charged		
24	(700160818000,1,001,GSEN S,1,1,126) (700160818000,1,001,GSEN S,1,0)	Query/set vibration detection coefficient of G-sensor to detect motion status of device.		
25	//Set Vibration alarm threshold to 1000mg (700160818000,1,001,GSEN S,2,1,1000) //Disable Vibration alarm detection (700160818000,1,001,GSEN S,2,1,0) //Query Vibration alarm threshold setting (700160818000,1,001,GSEN S,2,0)	<p>Query/set vibration alarm value</p> <p>After detecting that the vibration value(G-sensor detecting) is higher than the alarm threshold, it will alarm immediately. After the alarm, the vibration alarm will not be detected within 10 minutes, and the detection will be restarted after 10 minutes</p> <p>Note:</p> <p>This command was added in firmware version 20220715 and later</p>		
26	(700160818000,1,001,DEBU G,7)	Place the device in the warehouse and configure it to enter deep sleep warehousing mode. The JT709A device does not have an external power switch and cannot be shut down. In order to facilitate storage in the warehouse, configure the device to enter deep sleep mode. the device can only be waken up by charging /bluetooth commands/open back cover when enter		

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		deep sleep mode,can't be waken up by vibration or swipe RFID cards. Note: Please pay attention to distinguish the deep sleep mode where the device power is less than 5%.because this situation, the device can be waken up by swiping RFID cards		
27	(700160818000,1,001,DEBU G,15,1,10) (700160818000,1,001,DEBU G,15,0)	Query/force the device enter sleep		
28	(700160818000,1,001,DEBU G,27)	Query Sim card ICCID and IMSI number		
29	(700160818000,1,001,DEBU G,29,1) (700160818000,1,001,DEBU G,29,0)	Query/delete GPRS blind area data in flash.		
30	(700160818000,1,001,DEBU G,30,1,120,10)	Query/Set overspeed alarm threshold and duration. When GPS signal is positioning, the device detects that the current speed is greater than the overspeed threshold for a period of time, it will generate an overspeed alarm.		
31	(700160818000,1,001,DEBU G,31,1,30)	Query/set low battery alarm		
32	(700160818000,1,001,GFCE, 7,1,8,1,9,11400.623,2233.6325 ,11400.7988,2233.7466,1 1400.9575,2233.7686,11401.0 304,2233.6775,11401.0434,22 33.5696,11401.0221,2233 .4972,11400.7991,2233.4543, 11400.6833,2233.4570,11400. 6618,2233.4688) (700160818000,1,001,GFCE, 7,1,3,1,8,-7531.1858,832.923,- 7529.5627,832.3909,- 7529.3562,831.6025,-7529.94 45,830.1557,-7530.5315,828.4 319,-7532.2582,829.0359,-75 33.0169,829.6902,-7531.3584 .832.681) (700160818000,1,001,GFCE, 7,0,1,1)	Query/Set Geo-fence detailed nodes information. The device will trigger geo-fence alarm when enter or exit the geofences.		

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33	(700160818000,1,001,GFCE,8,2)	Delete the fence node information of each fence ID		
34	(700160818000,1,001,ELOC K,2,1,1) (700160818000,1,001,ELOC K,2,0)	Query/set long-time unlocking alarm threshold. The device pulls out the lock rope, after unlocking, the device is not locked for preset time, and a long-time unlocking alarm is generated; the value range is 1 to 10 minutes. The default is 1 minute.		
35	(700160818000,1,001,ELOC K,3,261621)	Platform send this acknowledge command when received dynamic password reporting. Each time the device is locked, within about 1 minute, the device will actively report the current dynamic password to the platform (700160818000,1,001,ELOCK,3,261621), and the platform will respond to this ACK command after receiving this dynamic password to inform the device that the platform has received the dynamic password update. If the platform does not respond to this command, the device will report dynamic password command content to the platform every 1 minute. dynamic password reporting command content: (700160818000,1,001,ELOCK,3,261621) 261621 is the dynamic password.not fixed value.		
36	(700160818000,1,001,ELOC K,4,2#aeAM,888888) (700160818000,1,001,ELOC K,4,1)	Query/modify the static password for remote unlocking		
37	(700160818000,1,001,ELOC K,5,1,888888) (700160818000,1,001,ELOC K,5,2,234513)	Remote unlock the device by static or dynamic password		
38	(700160818000,1,001,ELOC K,7,1,1,2,3,4) (700160818000,1,001,ELOC K,7,1,1,10,1,2,3,4,5,6,7,8,9,10)  (700160818000,1,001,ELOC K,7,0)	Query/set prohibiting unlocking outside the Geo-fence		
39	(700160818000,1,001,ELOC K,11,1,1,1,0,0,0,0) (700160818000,1,001,ELOC K,11,1,1,1,1,1,1,1) (700160818000,1,001,ELOC K,11,0)	Query/set VIP mobile phone number to receive SMS alarm		

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40	(700160818000,1,001,ELOC K,14,1,1) (700160818000,1,001,ELOC K,14,0)	Enable/disable dynamic password reporting function.Default,it's enabled.		
41	(700160818000,1,001,ELOC K,15,1,20,0008932627,00077 42247,0013953759,0013953 758,0013953757,0000000002 6,0000000027,0000000028, 0000000029,0000000030,0 00 0000031,000000032,0000 000033,000000034,00000 00035,000000036,000000 003 7,0000000038,0000000039, 0000000040) (700160818000,1,001,ELOC K,15,2,3,0013953759,001395 3758,0013953757) (700160818000,1,001,ELOC K,15,0,1) (700160818000,1,001,ELOC K,15,3)	Query/add/delete all – RFID authorization card numbers. At present, a device supports up to 500 RFID authorization card numbers; Note: query and setting via Bluetooth command, the maximum number of RFID authorization card numbers is no more than 16; for other methods-GRPS, the maximum number of RFID authorization card numbers is 20 for query and setting.		
42	(700160818000,1,001,ELOC K,16,1) (700160818000,1,001,ELOC K,16,0)	Enable/disable on-site batch registration of RFID authorization card numbers When this function is enabled, the device buzzer will beep once, and the user can swipe a single RFID card and register the RFID card. If the swiping is successful, the buzzer will beep once, continue to swipe the RFID card and register other RFID cards. When no RFID card swiping is detected in 60 seconds, or a single authorized swipe card is greater than 20. Swipe the RFID card again, the buzzer will beep for 3 seconds, indicating that the illegal card is currently swiped		
43	(700160818000,1,001,ELOC K,19,1,5) (700160818000,1,001,ELOC K,19,0)	Query and set the automatic locking time of the device; when the device is unlocked and the lock rope is not pulled, the default automatic locking time is 1 minute. Note: This command was added in firmware version 20220309 and later.		
44	(700160818000,1,001,ELOC K,22,1,1,30,60) (700160818000,1,001,ELOC K,22,0)	Query and set the time interval for location data reporting when the device is unlocked or locked. by default,this function is disabled; After this function is turned on, the BASE,6 command configuration will be invalid; after this function is turned off, the BASE,6 command configuration will		

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		<p>continue to take effect.            Note:            This command was added in firmware version 20220309 and later</p>		
45	(700160818000,1,001,OTA, 9,1,222.252.17.214,10021,test 1,Ab123456,JT709A4G_202 11208 .bin,101764,9585478)	<p>Firmware upgrade over the FTP server            Note:            Clients need to deploy a ftp server, and get the FTP OTA file and its ,total bytes and checksumcode of this OTA file from Jointech sales.            This command was added in firmware version 20211012 and later.</p>		