JT701D Protocol Manual V1.7

Shenzhen Joint Technology Co.,Ltd.

April 18, 2023



Table of Contents

Table of Contents	2
Version History	5
Preface	7
Product Description	7
Working mode	7
Standby sleep mode (Wake up with wake-up source)	7
Deep sleep mode (low power sleep)	7
Tracking mode (real-time tracking)	8
Deep sleep Warehousing sleep mode (warehousing mode)	8
RFID card description	8
Wake-up source description	8
Data storage	9
Data transmission and priority	9
Protocol Based	9
Command format	9
Escape character processing-peripheral data	10
Command and Data channel	10
Protocol Integration Instructions- Platform and Device Interaction	11
Device Report Binary Data -GPRS	11
Position and alarm data format (HEX)	11
Extended device status	15
Extended device status2	15
P45 Lock & unlock report	16
P52,2 Dynamic password report	19
P22,2 The device actively requests time synchronization	20
@JT Heartbeat packet data	20
Command response data	21
WLNET,5 Peripheral data	21
Device report data -SMS	22
SMS Position data	22
SMS Alarm data	24
SMS Alarm data example	24
SMS Alarm message analysis	25
Platform response command -GPRS	27
P69 Platform general response command	27
P22 Platform time synchronization command	27
P52,2 Platform response to dynamic password report	28
ASCII Command -GPRS/SMS/UART/USB	29
Device status	29
P01 Query firmware version	29
P02 Query the current location and status of the device	29
P14 Query IMEI number of GSM module	30



P68 Query the IMSI and ICCID of the SIM card	30
System configuration	31
P06 Main IP1 and secondary IP2, and SIM card working theory	31
P06,0/P06,1 Query and Set main IP1/port/SIM1 card slot corresponds to APN	31
P06,2/P06,3 Query and Set secondary IP2/port/SIM2 card slot corresponds to APN	32
P04 Query and Set data upload interval and RTC timing upload interval	33
P92 Query and Set the position data reporting interval when the device is unlocked or locked	33
P99 Query and Set Cornering Report	34
P39 Query and Set Working time after the device wakes up	35
P54 Query and Set tracking mode	35
P03 Query and Set deep sleep mode	36
P37 Query and Set motion detection by G-sensor	36
P62 Query and Set the initial mileage and mileage statistics speed threshold	37
P22 Time synchronization	38
P13 Factory reset	39
P50 Enable and disable the power switch	39
P63 Query and Set GPS static drift optimization function	40
P94 Query and Set P45 unlock&lock report-extended field report	40
P97 Query and Set GNSS module power saving mode	41
P105 Query and Set the working network of the cellular module	42
P67 Query and Set the password verification function of configuration parameters	43
SMS configuration	44
P11 Query and Set VIP phone number	44
P12 Query and Set VIP phone number to receive SMS alarm	45
P23 Query and Set SMS/phone call wake-up function	45
P70 Enable and Disable non-VIP numbers to wake up the device	46
P10 Query and Set SMS alarm time difference	46
P65 Query and Set device alias	47
Authorized card management	48
P41 Query, add, delete certain, delete all RFID authorization cards	48
P42 Enable and disable Register RFID authorization card on site	49
Unlock/lock and remote control	50
P43 Remote static password unlock	50
P44 Modify static password	
P52,3 Remote dynamic password unlocking	51
P52,1 Query and Set the dynamic password unlock function	52
P52,0 Query current device dyminic password	53
P59 Query and Set unlock channel control	53
P15 Remote restart	
P32 Force the device to enter sleep mode	54
P83 Query and Set the automatic lock time of the device	55
P91 Deep sleep warehousing mode (Shutdown device remotely)	
Alarm configuration	56
P40 Query and Set the switch of GPRS/SMS alarm	
P61 Query and Set low battery alarm threshold	57
P36 Query and Set Vibration alarm threshold	58

SHENZHEN JOINT TECHNOLOGY CO.,LTD.



P38 Query and Set long-time unlocking alarm	58
Geofence configuration	59
P24 Query and Set Geofence function and geofence name	59
P29 Query and configure the enter and exit fence node information	59
P30 Delete the fence node of the fence ID	
P31 Notify the device that the Geofence is configured	61
P58 Query and Set authorized RFID card unlocking associated Geofence	62
P52,1 Query and Set dynamic password unlocking associated geofence	62
Read the device's FLASH via serial port(customized firmware)	63
P19 Obtain positioning data and Unlock & lock report	63
DEBUG Remote debugging commands	63
P98,10,0 Query the number of data cached in the device FLASH	63
P98,10,1,0,0 Delete all cached data in device FLASH	64
P98,6 View the AT command flow of the communication module and GPS-NMEA data	64
Peripheral configuration	65
Query, delete and bind JT709 slave lock or JT126 temperature & humidity sensor to the master	r lock65
OTA Command	65
OTA-9 Firmware upgrade over the FTP server	65
Customized command	66
P09 Configure indicator LED's display	66
ttached table: List of ASCII commands	67



Version History

Verion	Modify Contents	Release time
V1.1	First edition released	April 22, 2021
V1.2	Fix WLNET,5 response command error	June 22, 2021
V1.3	Update P04 command description-RTC wake-up interval parameter modification; Added P39 command-the working time of the device after the wake-up function; Added version history chapter	August 20, 2021
V1.4	Add OTA-9 FTP OTA command-firmware version:20211019; After non-RTC wakeup, immediately collect a piece of position data and upload it-firmware version:20211222; Position and alarm data format-MNC modification-firmware version:20211224	December 31, 2021
V1.5	Added P36 command - vibration alarm - firmware version: 20211222; Added P91 command - Deep sleep warehousing mode (remote shutdown) - firmware version: 20220106; Add P83 command - automatic lock time can be configured 1-10min - firmware version: 20220304; Added P92 command - configure the data reporting interval of unlocking/locking status - after this function is enabled, the P04 configuration will be invalid Firmware version: 20220304; Add P94 command —Query and configure the P45 unlock&lock report expanded field,default ,this function is disabled- firmware version: 20220304 Function optimization: (Firmware version: 20220304) 1. VIP mobile number length limit changed from 15 characters to 20 characters 2. After the unlocking and locking operations, report a position data synchronously, so as to obtain the latest lock rope and motor status.no need to wait the time interval of data reporting(P04 command setting). 3. Location data - IMEI field reported by default	March 7, 2022
V1.6	Added commands: Added P97 command - configure GNSS module power saving mode - firmware version: 20220628; Added P99 command - configure Cornering report - firmware version: 20220618; Add P105 command - configure the working network of the cellular communication module - firmware version: 20220815; Update P94 command-P45 unlock&lock report-extended field report- firmware version: 20220815;	October 18, 2022
V1.7	Function optimization: 1.Add P45 lock rope pull out event type- firmware version:20230324;	April 18, 2023



After pull out lock rope operations, report a position data synchronously, so as to obtain the latest lock rope and motor status.no need to wait the time interval of data reporting(P04 command setting).

Added commands:

1.Add P67 command - The password verification function of configuration parameters - firmware version:20220815;



Preface

JT701D is a mobile asset monitoring and management product based on the JT701 electronic smart lock. The product currently supports 2G/4G communication and has a built-in battery of 15000mAH. JT701D products have been optimized and improved in terms of low power consumption, peripheral expansion, and functional design. Diversified working mode, according to the power consumption needs, added deep sleep mode, tracking mode in the existing sleep mode. The default 50 RFID authorization cards will be expanded to 500 RFID authorization cards. In terms of security, a control unlocking channel has been added. For example, the user can specify whether the lock can be unlocked through SMS, RFID authorization card, serial port, Bluetooth, and GPRS network channel. In terms of peripheral expansion, JT701D can support 10 JT126 wireless temperature and humidity sensors or 10 JT709 Bluetooth sub-locks to work at the same time. JT701D is with key-free design, RFID/remote unlocking, large capacity battery and long working time. It is also with Built-in wireless module, real-time online monitoring, built-in GPS module, global positioning tracking, security monitoring, illegal unlocking alarm and other functions. It is suitable for remote monitoring of containers, flatbed trucks, van trucks, etc.

All position data or unlock/lock event's report time involved in this protocol are UTC time. This product only supports TCP channel and SMS channel communication by default. If you need MQTT, HTTP or UDP, etc., you need to communicate with the sales staff and customize the firmware.

Due to the continuous improvement and optimization of the product, this document can only accurately describe the functions and features of the device at the time of writing this document. If there is any change in the future, please contact our sales to obtain the latest protocol manual. Please forgive us without notice.

Product Description

Working mode

Standby sleep mode (Wake up with wake-up source)

The device is in standby sleep mode by default. In this mode, the device can be awakened by an external wake-up source. And send data according to the preset data reporting interval, otherwise the device will report a piece of data at 30-minute RTC timing interval, then go to sleep again.

Deep sleep mode (low power sleep)

In the default configuration, when the battery power of the device is less than 5%, it will enter the deep sleep mode. In this mode, the GPS and GSM communication modules are turned off and cannot report position data. So you can swipe the RFID authorization card to unlock, open the back cover of the device, or charge the device to wake up the device. After waking up the device, the device will detect the current battery level whether can report data, otherwise the device enters the deep sleep state again.



Tracking mode (real-time tracking)

When the tracking mode is enabled, the device will continue to report position data without going to sleep. Until the battery power is below 5%, the device enters a deep sleep state. When the device is awakened from charging, it will continue to maintain the tracking mode until the user sends a P54 command to cancel the tracking mode.

Deep sleep Warehousing sleep mode (warehousing mode)

The SIM card has been inserted into the device and the relevant parameters have been configured. In order to solve the inconvenience of transportation safety, saving power consumption during transportation, and reopening the back cover, the user sends the P91 command, and the device will enter this warehousing mode. In this mode, the device cannot be woken up by vibration, it needs to be woken up by swiping the RFID card and charging the device.

Note: This mode is only supported on firmware version - 20220106 and later

RFID card description

The standard firmware of JT701D device supports 500 RFID authorization cards by default, which can be used to swipe the card to unlock. The JT701 device standard firmware only supports 50 RFID authorization cards by default.

Wake-up source description

No.	Wake-up source	Prerequisite: The device is in standby mode
1	Restart the terminal	After power on, wake up and work for 10 minutes, during which
I	(Can't configure off)	there is no other wake-up source, then sleep;
2	Vibration wake	After detecting the vibration, wake up and work for 10 minutes,
	(Can configure off)	during which there is no other wake-up source, then sleep;
3	Open back cover	After the detection back cover is opened, wake up and work for 10
3	(Can't configure off)	minutes, during which there is no other wake-up source, then sleep;
4	Lock rope inserted/unplug	Detect inserted/unplug of the lock rope, wake up and work for 10
4	(Can't configure off)	minutes, during which there is no other wake-up source, then sleep;
5	Charging	Detect external charging, wake up and work for 10 minutes, during
5	(Can't configure off)	which there is no other wake-up source, then sleep;
6	Swipe RFID card	Detect swiping RFID card, wake up and work for 10 minutes, during
0	(Can't configure off)	which there is no other wake-up source, then sleep;
	SMS Call wake up	Detect the SMS command or calling sent by the VIP mobile phone
7	SMS, Call wake-up	number, then wake up and work for 10 minutes, during which there
	(Can configure off)	is no other wake-up source, then sleep;
8	RTC timing wake-up	After waking up at a preset time interval and uploading a piece of
0	(Can't configure off)	data, then sleep;



	9 Lora wake-up (optional) (Can't configure off)	Lora Gateway detects that the peripheral requests to send data. After
9		waking up and uploading the peripheral data, there will be no other
		wake-up source during the period, then sleep.

Data storage

The device is with the function of supplementary transmission of blind zone data. When it is unable to connect to the GPRS network, the device will save all position data, alarm data, unlock/lock reports, and peripheral data generated during the period to FLASH. The total number of data stored in the device's blind area shall not be less than 20,000. When the GPRS network signal is restored and the device is connected to the platform, the blind zone data generated during the period will be reported actively.

Currently JT701D device does not save data for a long time. All data is cached in FLASH before sending. Each time a piece of data is successfully sent, this piece of data in FLASH will be automatically deleted.

Data transmission and priority

The protocol uses big-endian network byte order to transfer words and double words. The agreement is as follows: The transmission agreement of byte (BYTE): according to the byte stream transmission; Word transmission convention: first transfer high eight bits, then transfer low eight bits; The transmission convention of double byte (DWORD): first pass the high 24 bits, then pass the high 16 bits, then pass the high 8 bits, finally pass the low 8 bits.

The real-time position data has the highest priority, followed by the second new position data; The P45 unlock/lock report, alarm data, and blind area data are reported without priority according to the FLASH storage sequence. In order to ensure that customers can obtain the latest device position and status information, real-time and second new position data are reported in a last in, first out manner; Blind area data, in accordance with the first-in, first-out method of data reporting.

Protocol Based

Command format

GPRS or SMS command format:

No.	Item	Length (bytes)	Description
1	Packet header	1	Fixed as"("
2	Command word	3	Such as P03 etc.
3	Separating character	1	"" "
4	Parameter	N	Each parameter separated by a comma
5	Packet End	1	Fixed ad") "



Device report command response format:

No.	Item	Length (bytes)	Description
1	Packet header	1	Fixed as" ("
2	Device ID	10	Such as 8010101998, which is the ID number of the device
3	Separating character	1	"," comma
4	Command word	3	Such as P03 etc.
5	Separating character	1	," comma
6	Parameter	N	Each parameter separated by a comma
7	Packet End	1	Fixed as") "

Escape character processing-peripheral data

Note: Currently only <u>WLNET,5</u> peripheral data needs to handle escape characters. Others such as position data, command response and P45 unlock/lock report do not need to deal with escape characters.

When the WLNET,5 peripheral data content contains 0x28, 0x29, 0x2C, 0x3D special characters, the JT701 device firmware will convert them to 0x3D 0x15, 0x3D 0x14, 0x3D 0x11, 0x3D 0x00. For example, WLNET, 5 peripheral data. On the platform side, the escape character needs to be restored to real data according to the following sequence. 0x3D 0x00 must be replaced at the end, other no order requirements.

0x3D 0x15 →0x28

 $0x3D\ 0x14 \rightarrow 0x29$

0x3D 0x11 → 0x2C

0x3D 0x00 → 0x3D

Command and Data channel

Item	Description
■GPRS	Represents command or position data that can be sent or reported over the GPRS-TCP channel
■SMS	Represents command or position data that can be sent or reported over an SMS channel
■UART	Indicates that an command can be sent over a serial port
■USBHID	Indicates that an command can be sent over the USBHID channel



Protocol Integration Instructions-

Platform and Device Interaction

Please reference to document 《JT701D Protocol -Platform Integration GuideV1.4》

Device Report Binary Data - GPRS

Position and alarm data format (HEX)

Function Description	Used to record the operation and information of the device such as position, device status, alarm and so on
Production conditions	Position data is reported regularly according to the preset upload interval; Alarm data. When the alarm is triggered, it is reported immediately.
Data channel	■GPRS
Platform response	(P69,0 <mark>,86</mark>)
response command	(P69,0 <mark>,86</mark>)

Data example1:

2480006200111911003418042116225922348310113550543F12980000002D060000000020E028109228661F 000100000F0F0F0F0F0F0F000001CC01<mark>56</mark>

Data example2:

Note:

Firmware version: 20220304 and later versions, the device IMEI field is reported by default. 2480006200111911003418042116225922348310113550543F12980000002D060000000020E028109228661F000100 00868822040248195F000001CC0156

Position data serial number: $0x56 \rightarrow 86$ Platform response command: (P69,0,86)

No.	Item	Value (HEX)	Lengh (bytes)	Description
1	Protocol header	24	1	It is fixed to 0x24, which is the ASCII "\$" character.
2	Terminal ID	8000620011	5	The ID number of the device is fixed to 5 bytes in length.
3	Protocol	19	1	19 : Represents the JT701D protocol version number



	version			17 : Represents the JT701 protocol version number
4	Device type	1	0.5	1 : Regular rechargeable JT701.
5	Data type	1	0.5	1 Represents real-time position data 2 Represents alarm data 3 Represents blind area position data 4 Represents sub-new position data (newly added by JT701D)
6	Data length	0034	2	0x34→ 52 bytes, which means that the data length from the date field to the data serial number is 52 bytes
7	Date	180421	3	DDMMYY format. Here is April 18, 2021 for UTC time
8	Time	162259	3	hh:mm:ss format. Here, 16:22:59 is UTC time
9	Latitude	22348310	4	22348310, as defined in the DDMM.MMMM format, this latitude value is: 22.580517° 22 + 34.8310/60 = 22 + 0.580517 = 22.580517°
10	Longitude	113550543	4.5	113550543, as defined in the DDDMM.MMMM format, this longitude value is: 113.917572°
11	Direction indicator	F	0.5	 The rightmost bit is BIT0, and the leftmost bit is BIT3. 1: BIT3 ,fixed value.1 1: BIT2 means east longitude, if 0 means west longitude. 1: BIT1 means north latitude, if it is 0, it means south latitude. 1: BIT0 means positioning, if it is 0, it means GPS not positioning. E.g: F = 1111, east longitude, north latitude, GPS positioning 9 = 1001, west longitude, south latitude GPS positioning
12	Speed	12	1	The unit is nautical mile/hour, need to be converted to kilometers/hour That is, the current speed is 33.3 km/h $0x12 \rightarrow 18 \rightarrow 18 * 1.85 = 33.3$
13	Direction	98	1	0x98 = 152, multiplied by 2 is 304, that is, the direction is 304 degrees
14	Mileage	0000002D	4	The current mileage is 45 kilometers 0x0000002D → 45
15	Number of GPS satellites	06	1	The number of GPS satellites, the number of GPS satellites is 6.
16	Bind vehicle ID	00000000	4	The vehicle ID number currently bound to the center, expressed in hexadecimal. As a reserved field, it is currently fixed at 0x00000000
17	Device status	20E0	2	The various states and alarms of the device, the rightmost is the low byte (Byte1), and the leftmost is the high byte (Byte2). The detailed definitions are as follows: $0x20E0 \rightarrow 00100000 \ 11100000 \ (binary)$



	Byte2.BIT5 =	1 Indicates that the back cover is closed
	Byte1.BIT7 =	1 Indicates motor is locked
	Byte1.BIT0 =	0 Indicates non-base station positioning
	Byte.BIT	Description
	Byte1.BIT0	Whether base station positioning:
		1 means base station positioning,
		0 means non-base station positioning
	Byte1.BIT1	1 means Enter fence alarm,
		0 means Normal
	Byte1.BIT2	1 means Exit fence alarm,
		0 means Normal
	Byte1.BIT3	1 means Lock Rope cut alarm,
		0 means Normal
	Byte1.BIT4	1 means Vibration alarm
		0 means Normal
		(Firmware version: 20211224 and later
		versions support vibration alarm; previous
		firmware version, no vibration alarm)
	Byte1.BIT5	1 means that the platform is required to
		send ACK command
		0 means that the platform is not required to
		send ACK command
		(all JT701D data needs to be
		acknowledged by the platform)
	Byte1.BIT6	Lock rope state
		1 means lock rope inserted,
		0 means lock rope pull out
	Byte1.BIT7	Motor state
		1 means Motor locked
	D (0 DITC	0 means Motor unlock
	Byte2.BIT0	1 means long-time unlocking alarm,
	D (0 DIT(0 means Normal
	Byte2.BIT1	1 means Wrong password alarm(the
		password is entered incorrectly for 5
		consecutive times)
	D. (O DITO	0 means Normal
	Byte2.BIT2	1 means Swipe illegal RFID card alarm
	D (0 DITC	0 means Normal
	Byte2.BIT3	1 means Low battery alarm
	D (0 D)T	0 means Normal
	Byte2.BIT4	1 means Back cover opened alarm
	D (0 D)==	0 means Normal
	Byte2.BIT5	Back cover status:
		1 means cover closed,
		0 means back cover opened



				Byte2.BIT6 1 means Motor stuck alarm
				0 means Normal
				Byte2.BIT7 Reserved
				The power indicator is the currently collected power value,
	_			expressed in hexadecimal digits.
18	Battery	28	1	0x28 means the current remaining power is 40%
	level			0x64 means that the remaining power is 100%,
				If it is 0xFF, it means it is charging.
				1092 is the CELL ID number,
	CELL ID			For a 3G or 4G JT701 device, the CELL ID field is the
19	position	10922866	4	lower 16 bits of the CELL ID of the 3G module, which
	Code			needs to be combined with field 25
				2866 is the location code, namely LAC.
	GSM			Indicates the current GSM signal strength,
20		1F	1	1F means 0x1F, that is, the signal value is 31.
20	signal	IF	1	When the device cannot detect any GSM signal, this value
	quality			is 99
	Fence			
21	alarm	05	1	Entry and exit fence alarm ID, up to 10 fences
	ID			
	Expanded			Expanded Device status: 0x01 → 0000 0001 _(binary)
22	Device	01	1	$0001_{(binary)} = 1_{(decimal)}$ Indicates RTC timing wake up
	status			Refer to the following Expanded device status
				Operator code Mobile
				need to be combined with MNC-Lowbyte field 28
				0x0001 → 1
				Note:
	MNC-			Before Firmware version:20211224, this field defaults to
<mark>23</mark>	Hightbyte	00	1	0x0F, and MNC has only one byte. Starting with this
				firmware version, MNC is expanded to two bytes.
				When the platform is integrated, it is compatible with the
				previous firmware recommendation: when this field is 0x0F,
				this ,MNC extended field is ignored; otherwise, this field is
				combined with the 28th field.
				Expanded Device status 20x01
	Expanded			1 _(binary) Indicates Battery charging Refer to the following Expanded device status?
24	Device	01	1	Refer to the following Expanded device status2 Note:
	Status2			New added since firmware version: 20221118 and later
				version
				IMEI number: 868822040248195
	IMEI			The first 15 digits are BCD codes, followed by an F
25	number	868822040248195F	8	Note:
	(reserved)	5555225152151661		Firmware version: 20220304 and later versions are enabled
	(10001700)			by default.
	I			by actual.



				For previous firmware versions, this field defaulted to 0F0F0F0F0F0F0F0F
26	CELL ID	0000	2	The CELL ID value of 2G module is fixed to 0x0000 3G/4G module CELL ID high 16 bits, need to be combined with field 19 - CELL ID position Code
27	MCC	01CC	2	Country code, China 0x01CC → 460
28	MNC- Lowbyte	01	1	Operator code Mobile need to be combined with MNC-Hightbyte field 23 0x0001 → 1
29	Data serial number	56	1	Data serial number 0x56 → 86 Each time a piece of data is sent, it will add 1, from 0x00 to 0xFF, and the serial number will be cleared when the device restart. (JT701D, this data serial number is used as the platform P69 command-response serial number)

Extended device status

 $0x01 \rightarrow 0000 \ 0001_{(binary)}$

0001_(binary) =1_(decimal) Indicates RTC timing wake up

UUU I (binary) = I (decin	nal) Indicates RTC timing wake up			
Byte1.Bit0 -	Wake-up source:			
Byte1.Bit3	0: Device restart,			
	1: RTC timing wake up,			
	2: Vibration,			
	3: Open the back cover,			
	4: The lock rope inserted or unplug(cut),			
	5: Charging,			
	6: Swipe RFID card,			
	7: Lora,			
	8: VIP SMS,			
	9: Non-VIP SMS			
	10:Bluetooth			
Byte1.Bit4	Reserved			
Byte1.Bit5	Reserved			
Byte1.Bit6	Reserved			
Byte1.Bit7	Reserved			

Extended device status2

 $0x01 \rightarrow 0000 \ 0001_{(binary)}$

1_(binary) Indicates Battery charging

()/	, ,		
Byte1.Bit0 -	1:Battery charging	0:No charging	



Byte1.Bit1	Reserved
Byte1.Bit7	Reserved

P45 Lock & unlock report

Function Description	When the device is locked or unlocked, the lock or unlock report will be generated immediately
Production conditions	RFID Card unlocking, remote password unlocking, SMS command unlocking and other unlocking methods The lock rope is inserted and the device is automatically locked
Data channel	■GPRS
Platform response command	(P69,0, <mark>24</mark>)

Rawdata example1(HEX):

28383030303632303031312C5034352C3137303732302C3032303631342C32322E35363033352C4E2C31313 42E30313634302C452C412C33362C3237302C312C312C303030383632373833392C302C302C32342C3529 Convert to ASCII:

(8000620011,P45,170720,020614,22.56035,N,114.01640,E,A,36,270,1,1,0008627839,0,0<mark>,24,5</mark>)

Event serial number: 24

After the ASCII format, the number after the 16th comma, which is the serial number of the lock and unlock report, is used as the platform P69 command-response serial number.

Note1:

Since other fields may be added to the mileage value field in the future, when the platform responds, it is not recommended to use the second comma from the bottom as the event serial number of the unlock/ lock report. New fields in the future may cause errors in the response from the platform.

Platform response command: (P69,0,24)

Rawdata example2 (HEX):

28383030303632303031312C5034352C3238303232322C3039313734342C32322E35383136312C4E2C31313 32E39313532342C452C412C302C302C342C312C303030303030303030302C312C302C342C33372C383638 3832323034303234383139352C3029

Convert to ASCII:

(8000620011,P45,280222,091744,22.58161,N,113.91524,E,A,0,0,4,1,0000000000,1,0,4,37,868822040248195,





Event serial number: 4

,868822040248195 The IMEI number of the device. After enabling the P94 command function, this field is reported. The default ,JT701D device doesn't report this field.

When the device is unlocked or locked, the fence ID that it is in. If no fence information is configured or not in the fence, the default is 0. After enabling the P94 command function, report this field. The default device does not report this field.

Note2:

Firmware version: 20220304 The P94 command enables P45 unlock&lock report-extended field report.

Platform response command: (P69,0,4)

More examples:

Dynamic password unlocking-not associated with Geo-fence (8000400055,P45,070121,074116,22.58071,N,113.91734,E,A,0,0,6,**98**,00000000001,0,13,0)

Remote static password unlock (8000400055,P45,060121,081257,22.58047,N,113.91753,E,A,0,0,4,1,00000000001,0,5,58)

Swipe authorized RFID card to unlock - associated Geo-fence - refused to unlock outside the fence (8000400055,P45,040121,104728,22.55801,N,114.00846,E,A,0,244,1,99,0008627839,0,0,2,29)

The device is automatically locked (8000400055,P45,060121,081012,22.58080,N,113.91751,E,A,0,0,5,0,0000000000,0,0,3,58)

Note: When parsing the data in the table below, the separator comma "," is omitted

No.	Name	Value(ASCII)	Description
1	Pocket header	(Fixed as "("
2	Terminal ID	8000620011	The ID number of the device is fixed to 10 bytes in length.
3	Command word	P45	Command word: P45,lock and unlock report,
4	Date	170720	2020-07-17 UTC time
5	Time	020614	02:06:14 UTC time
6	Latitude	22.56035	It is in the form of DD.DDDDD. The unit is degree
7	North- south latitude indicator	N	Latitude (positive N: north latitude, negative S: south latitude)
8	Longitude	114.01640	It is in the form of DDD.DDDDD. The unit is degree
9	East-west longitude indicator	Е	Longitude (positive E: east longitude, negative W: west longitude)
10	Positioning Sign	Α	A means GPS positioning, V means no positioning



11	Speed	36	The unit is kilometers/hour, which is 36 kilometers/hour
12	Direction	270	The unit is degrees, which is 270 degrees
13	Event source type	1	Event source type, there are the following event sources: 1: Means to swipe the RFID authorization card; 2: Means swiping an illegal RFID card; 3: Indicates the binding of swiping the vehicle ID card; 4: It means remote static password unlocking; 5: Indicates that the device automatically locked; 6: Indicates remote dynamic password unlocking; 7: Indicates Bluetooth unlock (static or dynamic password); 8:indicates lock rope pull out eventAdded since firmware verison:20230324 or later;
14	Unlock verification	1	Indicates whether the unlock verification is passed 1 means pass the verification and allow unlocking; 0 means that the verification is not passed, and the unlocking is refused; If the event source is 2, 3, 5, this value is fixed to 0; If the event source is 4, this value is fixed to 1 or 0 Currently, the associated fence cannot be configured for static password unlocking If the event source is 1 and 6, it means unlock verification, 0 means that the password does not pass the verification, and it refuses to open the lock. 1~10 means fence ID, normal unlocking; 98 means that the associated fence is not opened and the lock is normally unlocked. 99 means open the associated fence, and refuse to unlock outside the fence.
15	RFID Card number	0008627839	Swipe RFID card number 0008627839 If the event source type is 4, 5, 6, 7, then this value is 00000000000
16	Password verification	0	If the event source type is 4, 6, 7, then this value is whether the password is correct, 1 when the password is correct, and 0 if the password is incorrect For other event source types, fixed to 0
17	Number of incorrect password entries	0	If the event source type is 4, 6, 7, then this value is the number of incorrect password input For other event source types, fixed to 0
18	Event serial number	24	The event serial number indicates the number of event records sent by the device. JT701D, the platform needs to use this event serial number as the P69 command-serial number.
19	Mileage value	5	5 Kilometer
20	Device IMEI	868822040248195	The IMEI number of the device. After enabling the P94 command function, this field is reported. The default device does not report



	Number		this field.
21	Fence ID	Ō	When the device is unlocked or locked, the fence ID that it is in. If no fence information is configured or not in the fence, the default is 0. After enabling the P94 command function, report this field. The default device does not report this field.
22	Pocket End)	Fixed as ")"

P52,2 Dynamic password report

Function Description	The device actively reports the dynamic password to the platform, and informs the platform of the current dynamic password of the device. The password is a random 6-digit number. The platform can record this password, and unlock the device through the P52 remote dynamic password unlock command.
Production conditions	P52,1 After the dynamic password unlocking function is enabled, the device can unlock the lock by password, swiping the authorized RFID card, and pull out the lock rope. When the lock rope is inserted next time and the lock is automatically locked, the device actively reports
	this dynamic password report to the platform at 1 minute intervals
Data channel	■GPRS
Platform	
response	(P52,2, <mark>113271</mark>)
command	

Data sample analysis(HEX):

28383030303632303031312C5035322C322C31313332373129

Convert to ASCII:

(8000620011,P52,2,<mark>113271</mark>)

Current dynamic password: 113271

Platform response command: (P52,2,113271)

Note: When parsing the data in the table below, the separator comma "," is omitted

No.	Name	Value(ASCII)	Description
1	Pocket header	(Fixed as "("
2	Device ID	8000620011	The ID number of the device is fixed to 10 bytes in length.
3	Command word	P52	Dynamic password command word
4	Command ID	2	Corresponding command ID under P52 command word
5	Dynamic	113271	Random 6 digits



	password		
6	Pocket	\	Fixed as ")"
О	end)	

P22,2 The device actively requests time synchronization

Function Description	The device actively requests time synchronization from the platform, which is sent at 1 minute intervals each time, for a total of three times. When the platform receives the time synchronization request from the device, it sends the P22 command to grant UTC time to the device.
Production conditions	The device shuts down for a period of time, and the device actively requests the platform to provide time to it after being turned on.
Data channel	■GPRS
Platform	(P22,150720164328)
response command	150720164328 When the platform receives the timing request, the current UTC time on the server side

Data sample analysis (HEX): 28383030303632303031312C5032322C3229 Convert to ASCII: (8000620011,P22,2)

Note: When parsing the data in the table below, the separator comma "," is omitted

No.	Name	Value(ASCII)	Description
1	Pocket header	(Fixed as "("
2	Terminal ID	8000620011	The ID number of the terminal is fixed to 10 bytes in length.
3	Command Word	P22	P22 command word
4	Command ID	2	Corresponding command ID under P22 command word
5	Pocket end)	Fixed as ")"

@JT Heartbeat packet data

Function Used to maintain the Socket TCP communication connection between the device	and the
--------------------------------------------------------------------------------------	---------



Description	platform, facilitating real-time response to commands
Production conditions	In standby mode or tracking mode, if the data upload interval is greater than 80 seconds after waking up, this data will be reported
Data channel	■GPRS
Platform response command	No need to answer

Data sample analysis(HEX):

28383030303632303031312C404A5429

Convert to ASCII:

(8000620011,@JT)

Note: When parsing the data in the table below, the separator comma "," is omitted

No.	Name	Value(ASCII)	Description
1	Pocket	(Fixed as "("
	header		
2	Terminal	8000620011	The ID number of the terminal is fixed to 10 bytes in length.
	ID	8000020011	
3	Heartbeat	@ IT	Heartbeat package
3	package	@JT	
1	Pocket	\	Fixed as ")"
4	end)	

Command response data

Reference this article **ASCII Command-GRPS/SMS/UART** Response commands and Description.

WLNET,5 Peripheral data

Function Description	Used to display the relative position, temperature and humidity, lock status and other information of the temperature and humidity sensor JT126 or the sub-lock JT709 sensor
Production conditions	When the device is bound to the temperature and humidity sensor JT126 or the sub-lock JT709 sensor ID, JT126 and JT709 establish communication with the JT701D device and report this data
Data channel	■GPRS
Platform response command	(P69,0,18)

Data sample analysis(HEX):



28383133303633303030312C312C3131302C574C4E45542C352C322C19042111353422348344113550520F0 000190421113533E017260004120168105704004000000310029

Convert to ASCII:

(8130630001,1,110, WLNET, 5,2, __!_54"4fD_5PR_

Subsequent content is non-visible characters

Detailed data analysis and platform response command:

Reference documents 《JT126 Temperature Sensor and JT709 Sub Lock Integration ManualV1.4》

Device report data -SMS

SMS Position data

Function	Used to view the current location, speed, GPS, lock status, battery level information of the
Description	device
Production conditions	Send (P02) short message command through VIP mobile phone number
Data	■SMS
channel	BOING

The position data of the short message is sent to the VIP mobile phone number, and its specific format is as follows: 8010101998,09-28 12:11:02,Speed:0km/h,Battery:85%,GPS:3,Lock Close, http://maps.google.com/?q=22.549737,114.076685

No.	Name	Text Content	Description
1	Device alias or Device ID number	Such as "John" or 8010101998, etc.	The default is the device ID, and the
			device alias needs to be configured
			through the command P65
2	Delimiter	"" ,	
3	Date time	09-28 12:11:02	Month day hour minute second
			The default is the current year
			For example: The year of sending the
			SMS command is 2021
			Then the date is 2021-09-28 12:11:02
			The default is UTC time, and the time



			zone needs to be adjusted through
			the P10 command.
4	Delimiter	" " ,	
5	Speed	Speed:0km/h	
6	Delimiter	"" "	
7	Battery level	Battery:85%,	if it is charging, it will display:
			Charging
8	Delimiter	" " "	
9	GPS signal	GPS:3	Number of GPS satellites
			If this value is 0, it means GPS is not
			located
10	Delimiter	" " "	
11	Lock motor switch state	Lock Open	Lock Open
	Siaic		Lock Closed
12	Delimiter	" " "	
13	Carriage return	0x0D 0x0A	
14	Longitude and Latitude Field Link	http://maps.google.com/?q=22.549737, 114.076685	Google address link:
	Latitado i iola Liinit	111.070000	22.549737 represents the north-
			south latitude, a positive value
			represents the north latitude, and a
			negative value represents the south
			latitude;
			The 114.07668 field represents east-
			west longitude, a positive value
			represents east longitude, and a
			negative value represents west
			longitude



SMS Alarm data

Function	This SMS alarm is generated when the device detects the lock rope cut, illegal card swiping,
Description	long-time unlocking, wrong password input for 5 consecutive times, entering the electronic
	fence, and exiting the electronic fence.
Production	Prerequisite: The user has passed the P11,P12 command-configure the VIP mobile phone
conditions	number and VIP number to receive the SMS alarm, and the P40 command has turned on the
	SMS alarm switch for the corresponding alarm
	Creation conditions:
	① Cut the lock rope: When the device is in the locked state, if the lock rope is cut, an alarm
	data will be generated;
	② Swiping unauthorized RFID card: Swiping the card with an unregistered RFID card will
	generate an alarm data;
	③Long-time unlocking: When the device is in a long-time unlocking state, the default is 120
	minutes, an alarm data will be generated;
	④Enter the static password incorrectly for 5 consecutive times: When the dynamic or static
	password is unlocked, the password is incorrect for 5 consecutive times, and an alarm data is
	generated;
	⑤Enter the fence: the equipment enters the fenced area from outside the fence, and an
	alarm for entering the fence is generated;
	©Leaving the fence: the device leaves the fenced area and generates a fence alarm;
	① Low battery: less than 30% (default, can be modified) for more than 10 minutes, it is
	considered that a low battery alarm is generated;
	®Motor stuck: when the motor is over-travel or stuck, an alarm data will be generated;
	The back cover is open: When the device detects that the back cover is open, an alarm
	data is triggered.
	®Vibration alarm: When the device G-sensor detects that the vibration exceeds the preset
	vibration alarm threshold, this alarm is generated.
Data channel	■SMS

SMS Alarm data example

Alarm name	Short message alarm content and format
Lock rope cut alarm	ALM, Rope Cut, 8010101998,09-28 12:03:43,Battery:95%,GPS:3, Lock
	Closed,http://maps.google.com/?q=22.549737,114.076685
Swipe illegal card alarm	ALM, RFID Check, 8010101998,09-28 12:11:02,Battery:95%,GPS:3, Lock
	Closed,http://maps.google.com/?q=22.549332,114.076561
Long-time unlocking alarm	ALM,Lock Open Timeout, 8010101998,09-28 12:11:02,Battery:95%,GPS:3,
	Lock Open,http://maps.google.com/?q=22.549730,114.076615
Wrong Password alarm	ALM, Password Err Quintic, 8010101998,09-28 12:11:02,Battery:95%,GPS:3,
5 consecutive incorrect	Lock Closed,http://maps.google.com/?q=22.549656,114.076564



passwords alarm	
Vibration alarm	ALM, Vibrate, 8010101998,09-28 04:31:32, Battery:66%, GPS:3, Lock
	Closed,http://maps.google.com/?q=22.549754,114.076250
Enter fence alarm	ALM,Enter fence,InArealID:area6,8010101998,09-28
	00:02:39,Battery:60%,GPS:3, Lock
	closed,http://maps.google.com/?q=22.549737,114.076685
Exit fence alarm	ALM,Exit fence,OutArealD:area6,8010101998,09-28
	03:21:45,Battery:58%,GPS:3, Lock
	closed,http://maps.google.com/?q=22.549737,114.076685
Low battery alarm	ALM,Low Battery: 8010101998,09-28 03:27:48,Battery:58%,GPS:3, Lock
	closed,http://maps.google.com/?q=22.549736,114.076588
Open the back cover	ALM,Open Back Cover: 8010101998,09-28 03:27:48,Battery:58%,GPS:3, Lock
alarm	closed,http://maps.google.com/?q=22.549736,114.076677
Motor stuck alarm	ALM,Motor Breakdown: 8010101998,09-28 03:27:48,Battery:58%,GPS:3, Lock
	closed,http://maps.google.com/?q=22.549736,114.076677

SMS Alarm message analysis

No.	Name	Text Content	Description
1	SMS alarm message header	ALM	Indicates it's a SMS Alarm message
2	Delimiter	"" ,	
3	Alarm Name	Lock Rope Cut	Means SMS alarm name If it is entering and exiting the fence, the alarm name is followed by the ID or the name of the fence to enter or exit the fence ,OutAreaID:area6, Indicates that the device is currently leaving the fence named area6 Or ,InAreaIID:4, Indicates that the device is currently entering the fence with fence ID 4



4	Delimiter	и » ,	
5	Device alias or Device ID number	e.g. "John"/7570101998	The default is the device ID, and the device alias needs to be configured through the command P65
6	Delimiter	""	
7	Date time	09-28 12:11:02	Month day hour minute second The default is the current year For example: The year of sending the SMS command is 2021 Then the date is 2021-09-28 12:11:02 The default is UTC time, and the time zone needs to be adjusted through the P10 command.
8	Delimiter	""	
9	Battery level	Battery:95%,	if it is charging, it will display: Charging(255%)
10	Delimiter	""	
11	GPS signal	GPS:3	Number of GPS satellites If this value is 0, it means GPS is not located
12	Delimiter	""	
13	Lock motor switch state	Lock Open	Lock Open Lock Closed
14	Delimiter	""	
15	Longitude and Latitude Field Link	http://maps.google.com/?q=22.549737, 114.076685	Google address link: 22.549737 represents the north-south



latitude, a	positive value represents
the north	latitude, and a negative
value repre	sents the south latitude;
The 114.07	668 field represents east-
west long	itude, a positive value
represents	east longitude, and a
negative	value represents west
longitude	

Platform response command -GPRS

P69 Platform general response command

Send	(P69, 0,123)
Command	
Function	Used to acknowledge all position data, alarm data, P45 report and WLENT,5 peripheral data.
Description	The P35, P46 command of JT701 is invalid to the response of JT701D device.
Command	0,123
Parameter	
Command	means platform has received data. 1 means data is wrong, resend again.
Parameters	123 means data serial number, please reference to 《JT701D Protocol -Platform Integration
Description	GuideV1.4》
Response	None
command	
Response	None
command	
Description	
Command	■GPRS
channel	BUFRS

P22 Platform time synchronization command

Send	(P22, 150720164328)
Command	



Function	If platform received time synchronization request from device (8000620011,P22,2)
Description	platform send this P22 command.
Command	150720164328
Parameter	
Command	150720164328 Day/Mont/Year/Hour/Minute/Second,
Parameters	it is UTC time, namely: 2020-07-15, 16:43:28
Description	
Response	(8000620011,P22, 1)
command	
Response	1 means time synchronization success, 0 means time synchronization failed.
command	Note:
Description	This time synchronization command can only take effect when the device is not currently
	acquiring GPS positioning; when the device is currently positioned, GPS satellite time will be
	used first, and the platform will fail to send this command.
Command	■GPRS
channel	■GF NG

P52,2 Platform response to dynamic password report

Send	(P52, 2,113271)
Command	
Function	Once platform received dynamic password report (8000620011, P52,2,113271) from device, it
Description	response this P52,2 command
Command	2,113271
Parameter	
Command	2 means P52 command word, ID2
Parameters	113271 means current dynamic password reported by device, a random 6-digit number
Description	
Response	None
command	
Response	If platform response it successfully, the device will not report the dynamic password report;
command	otherwise, it will continue to report the dynamic password report at 1 minute intervals.
Description	
Command	■GPRS
channel	

ASCII Command -GPRS/SMS/UART/USB

Device status

P01 Query firmware version

Send	(P01)
Command	
Function	Query current firmware version and remaining battery level.
Description	
Command	None
Parameter	
Command	None
Parameters	
Description	
Response	(8130630001,P01,JT701D_20210311_China_Jointech_SIM7600X_LoRa_PCBV2.3_R1.2.7
command	,41%)
Response	JT701D_20210311_China_Jointech_SIM7600X_LoRa_PCBV2.3_R1.2.7
command	JT701D current device model JT701D.
Description	20210311 firmware version is 20210311,
	SIM7600X Cellular module model name
	LoRa means the hardware built-in LoRa gateway. If it is NoLora, Indicates that
	the hardware has no Lora gateway
	PCBV2.3_R1.2.7 hardware version
	41% means remaining battery level
Command channel	■GPRS ■SMS ■UART ■USBHID

P02 Query the current location and status of the device

Send	(P02)
Command	
Function	Query the current location of the device and the device status information, and the short
Description	message content will be sent to the VIP mobile phone number.
Command	None
Parameter	
Command	None
Parameters	
Description	
Response	8010101998,09-28 12:11:02,Speed:0km/h,Battery:85%,GPS:3,Lock Close,



command	http://maps.google.com/?q=22.549737,114.076685
Response	Please reference to SMS position data section for detailed response content.
command	
Description	
Command	CDDC CMC HADT HODING
channel	□GPRS ■SMS □UART □USBHID

P14 Query IMEI number of GSM module

Send	(P14)
Command	
Function	Query the IMEI number of the 2G/3G/4G communication module
Description	
Command	None
Parameter	
Command	None
Parameters	
Description	
Response	(8130630001,P14, 869999040159249)
command	
Response	869999040159249 IMEI Number
command	
Description	
Command	■GPRS ■SMS ■UART ■USBHID
channels	BOLING BOMO BOART BOODING

P68 Query the IMSI and ICCID of the SIM card

Send	(P68, 1,0)
Command	(P68, 2,0)
Function	Query the IMSI and ICCID of the SIM card
Description	
Command	1,0
Parameter	
Command	1 means query IMSI, 2 means query ICCID
Parameters	0 query
Description	
Response	(8130630001,P68,1, 460046236100038)
command	(8130630001,P68,2, 89860442191970250038)
Response	460046236100038 means SIM card IMSI
command	89860442191970250038 means SIM card ICCID

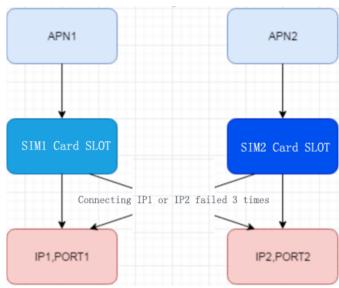
Description				
Command	-CDDC	-0140	_UADT	-Hebrid
channel	■GPRS	∎SMS	■UART	■USBHID

System configuration

P06 Main IP1 and secondary IP2, and SIM card working theory

- 1) Main IP1 and secondary IP2 are no longer bound to the SIM card slot
- 2) Dual SIM switching theory: The device will record the APN corresponding to the SIM card slot. When it is online for the first time, first connect the main IP1 and port, and after three attempts failed, connect IP2 and the port.
- 3) APN1 APN2 is bound to SIM cards slots.
- 4) user installs dual SIM cards. at present, JT701D only support the working mode dual SIM card single SIM card standby. If one SIM card is working, another SIM card does not work.

The device detect the current SIM card and its APN and APN parameters can be connected to the host IP (domain name) and port according to below diagram.



P06,0/P06,1 Query and Set main IP1/port/SIM1 card slot corresponds to APN

Send Command	(P06,1,47.112.122.222,10001,internet,gprs,gprs) (P06,1,it701.jointcontrols.com,10001,CMNET,,)
	(P06, 0)
Function	Query and configure main IP1(domain)/TCP port and APN, APN account related to SIM1 card
Description	slot



Command	1,47.112.122.222,10001,internet,gprs,gprs
Parameter	
Command	1 Operation mode, 1 set main IP1; 0 query main IP1
Parameters	47.112.122.222 main IP address or domain.
Description	10001 TCP port, maximum is 65530
	Internet GPRS network connecting name APN. (maximum 50 digitals)
	Gprs APN user, If none APN user name, blank value is allowed.(Maximum 50 digitals)
	gprs APN password. If none APN password, blank value is allowed (maximum 50 digitals)
Response	(8130630001,P06,47.112.122.222,10001,internet,gprs,gprs,0)
command	
Response	47.112.122.222,10001,internet,gprs,gprs the same to Command parameters description
command	0 means main IP1
Description	
Command	■GPRS ■SMS ■UART ■USBHID
channel	BUFING BUNNI BUGDIIID

P06,2/P06,3 Query and Set secondary IP2/port/SIM2 card slot corresponds to APN

Send	(P06,3,jt701.jointcontrols.com,10001,CMNET,,)
Command	(P06,3,47.112.122.222,10001,internet,gprs,gprs)
	(P06, 2)
Function	Query and configure secondary IP2 , TCP port, and APN, APN account corresponds to SIM2
Description	card slot.
Command	3,jt701.jointcontrols.com,10001,CMNET,,
Parameter	
Command	3 Operation mode, 3 set secondary IP2; 2 query secondary IP2
Parameters	jt701.jointcontrols.com host IP address or domain.
Description	10001 TCP port, maximum 65530
	CMNET GPRS network connection, name APN.(maximum 50 digitals)
	APN user name, none APN , blank value is allowed (maximum 50 digitals)
	APN password. If none APN password, blank value is allowed (maximum 50 digitals)
Response	(8130630001,P06,jt701.jointcontrols.com,10001,CMNET,,,1)
command	
Response	jt701.jointcontrols.com,10001,CMNET,,,1 is the same to command parameters description
command	1 means secondary IP2
Description	
Command	■GPRS ■SMS ■UART ■USBHID
channel	EGFRS ESIVIS EUARI EUSDNID



P04 Query and Set data upload interval and RTC timing upload interval

Send	// Configure the device to report data at 60-second intervals after waking up, and to report data		
Command	at 30-minute intervals when in sleep mode.		
	(P04, 1,60,30)		
	(P04, 0)		
Function	Query and set the data upload time interval after the device wakes up, and the RTC timing		
Description	wake-up interval;		
	If device wakes up, it will report position data at the data upload interval, and if it is in sleep		
	working mode, it will report location data at the RTC timing wake-up interval.		
Command	1,60,30		
Parameter			
Command	1 Operation mode, 1 set ; 0 query		
Parameters	60 Data upload time interval, unit: second, Value range [5~600]		
Description	30 RTC timing wake-up interval, unit: minute Value range [30~1440]		
	Note: Since the firmware version 20210311, this RTC timing wake-up interval, the value		
	range is modified to [5~1440]		
Response	(8130630001,P04, 60,30)		
command			
Response	60,30 the same to command parameters description		
command			
Description			
Command	■GPRS ■SMS ■UART ■USBHID		
channel	BOLING BOME BOODING		

P92 Query and Set the position data reporting interval when the device is unlocked or locked

Send	//Set the position data reporting interval to 30 seconds when the device is unlocked; and 60
Command	seconds when the device is locked
	(P92, 1,1,30,60)
	//Disable this function
	(P92, 1,0)
Function	Query and set the time interval for location data reporting when the device is unlocked or
Description	locked. by default, this function is disabled;
	After this function is turned on, the P04 command configuration will be invalid; after this function
	is turned off, the P04 command configuration will continue to take effect.



	Note:
	This command was added in firmware version 20220304 and later.
Command	1,1,30,60
Parameter	
Command	1 Operation mode, 1 set ; 0 query
Parameters	1 1 means enable this function, 0 means disable this function
Description	30 Position data reporting interval in unlocked state, unit in seconds. Value range [5~600]
	60 Position data reporting interval in the locked state, unit in seconds .Value range [5~600]
Response	(8130630001,P92, 1,30,60)
command	
Response	1,30,60 the same to command parameters description
command	
Description	
Command	■GPRS ■SMS ■UART ■USBHID
channel	BUFRS BOWN BUART BUSDIID

P99 Query and Set Cornering Report

Send Command	// Enable cornering report, the device calculates the latitude and longitude turning angle of the front and rear sampling points, and reports a piece of position data when it exceeds 20° (P99,1,1,3,20) // Disable cornering report function (P99,1,0)
Function Description	Query/set cornering reporting position data. After this function is turned on, when users view the historical tracks of the device on the WEB based software of the platform, the track line will be drawn more smoothly at the turn of the route on the map, which is closer to the actual driving route. Note: After this function is turned on, the GNSS module of the device will continue to run and cannot enter the intelligent power saving mode, and the power consumption of the whole machine will increase. This command was added in firmware version 20220618 and later
Command	1,1,3,20
Parameter	1 Operation made 1 Set : 0 Query
Command	1 Operation mode, 1 Set; 0 Query
Parameters	1 Enable this function ; 0 Disable this function. In default it is disabled.
Description	 indicates the position data sampling interval. Unit: second .Value range [1~600] indicates the turning angle. Value range [0~360]
Response	(8130630001,P99, 1,3,20)



command	
Response	1 means turn on cornering reporting
command	3 means the sampling interval is 3 seconds
Description	20 means the cornering reporting angle is 20°
Command	■GPRS ■SMS ■UART ■USBHID
channel	■GPRS ■SMS ■UART ■USBHID

P39 Query and Set Working time after the device wakes up

Send	// Configure the device to work for 5 minutes after it wakes up
Command	(P39, 1,5)
	(P39, 0)
Function	Query and set the working time after the device wakes up
Description	When the device detects a wake-up source such as vibration, opening the cover, charging,
	inserting the lock rope, etc., it will continue to work for 10 minutes by default;
	Note: This command has been enabled since firmware version 20210720 and later. The
	previous JT701D firmware version was fixed at 10 minutes.
Command	1,5
Parameter	
Command	1 Operation mode, 1 set ; 0 query
Parameters	5 Working time after waking up, unit: minute .Value range [3~10]
Description	
Response	(8130630001,P39, 1,5)
command	
Response	5 Working time after waking up ,5 minutes
command	
Description	
Command	■GPRS ■SMS ■UART ■USBHID
channel	EGFRS ESIVIS EUARI EUSDNID

P54 Query and Set tracking mode

Send	(P54, 1,1)
Command	(P54, 0)
Function	Query and configure tracking mode
Description	If the tracking mode is activated, the device will continue to report position data without going
	to sleep. After the battery power is below 5%, the device enters a deep sleep status. Once the
	device wakes up from charging, it continues to maintain the tracking mode until the user sends
	a P54 command to cancel the tracking mode.



Command	1,1
Parameter	
Command	1 Operation mode, 1 set ; 0 query
Parameters	1 1 means enable tracking mode, 0 Stop tracking mode
Description	
Response	(8130630001,P54, 1,0)
command	
Response	1,0
command	1 This value indicates the operation mode, it returns 1 for setting, 0 for query, and can be
Description	ignored
	0 Indicates that the tracking mode is stopped. 1 means the tracking mode is enabled.
Command	■GPRS ■SMS ■UART ■USBHID
channel	EGPRS ESIVIS EUARI EUSDNID

P03 Query and Set deep sleep mode

0 1	(000 4 4 5)
Send	(P03, 1,1,5)
Command	(P03, 0)
Function	Query and configure the percentage of battery level which the device enters deep sleep mode.
Description	The default is 5%.
	When the battery power of the device is lower than 5%, it will enter the deep sleep mode. 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.
	Note: In the deep sleep state, vibration cannot wake up the device.
Command	1,1,5
Parameter	
Command	1 Operation mode, 1 set ; 0 query
Parameters	1 1 means enable this function, 0 means disable this function
Description	5 The battery power is 5%. Value range [5~90]
Response	(8130630001,P03, 1,5)
command	
Response	1,5
command	1 Indicates that this feature is activated.
Description	5 Means 5%. If the battery power is less than 5%, the device enters deep sleep mode
Command	■GPRS ■SMS ■UART ■USBHID
channel	BUFRS BSINS BUART BUSDAID

P37 Query and Set motion detection by G-sensor

Send	(P37, 1,126)
Command	(P37, 0)



Function	Query and configure device vibration detection sensitivity				
Description	The device uses the G-senor acceleration sensor to determine whether it is currently in movement or static state; by adjusting the G-sensor parameters, device is with different sensitivity to detect the motion state in different environments. The smaller the acceleration value, the more sensitive in detection.				
Command	1,126				
Parameter					
Command	1 Operation mode, 1 set ; 0 query				
Parameters	126 Motion detection threshold, the value range is 0 or [63~500], the unit is mg, the default				
Description	value is 126.				
	If set value is 0, the G-sensor motion detection function is turned off;				
	After turning off the G-sensor motion detection function, if you need to re-enable the G-sensor function, you only need to reset the valid G-sensor value.				
Response	(8130630001,P37, 126,15)				
command					
Response	126,15				
command	126 Indicates that the current motion detection value of G-sensor is 126 mg				
Description	15 Customized function parameters. This function can be ignored in standard firmware.				
	Mainly consider command response compatibility				
Command channel	■GPRS ■SMS ■UART ■USBHID				

P62 Query and Set the initial mileage and mileage statistics speed threshold

Send	// Set the initial mileage to 999999			
Command	(P62, <mark>2,1,999999</mark>)			
	// Query the mileage value of the current device			
	(P62 ,2,0)			
	// Set the speed threshold of mileage statistics to 10 km/h			
	(P62, <mark>1,1,10</mark>)			
	// Query mileage statistics speed threshold			
	(P62, <mark>1,0</mark>)			
Function	Query and configure the initial mileage and mileage statistics speed threshold			
Description				
Command	2,1,999999			
Parameter				
Command	2 means command ID =2 ,The second command of P62, used to query and configure the			
Parameters	initial mileage			
Description	1 means command ID =1, the first command of P62, used to query and configure the			



	mileage statistics speed threshold					
	1 Operation mode, 1 set ; 0 query					
	999999					
	If the command ID is 1, set the mileage statistics speed threshold in kilometers/hour. If the					
	device is below this speed, the mileage will not be accumulated. It is mainly to filter the					
	mileage statistics error caused by GPS static drift. The default is 10km/h					
	If the command ID is 2, set the initial mileage to 999999 kilometers.					
	Value range [0, 4294967295]					
Response	(8130630001,P62,2, 999999)					
command						
Response	999999 Set the initial mileage of the device to 999999 kilometers					
command						
Description						
Command	■GPRS ■SMS ■UART ■USBHID					
channel	EGPRS ESINS EUART EUSDNID					

P22 Time synchronization

Send	(P22, 150720164328)				
Command					
Function Description	User can use this command to synchronize the device's GPS time to the current UTC time. When testing the device indoors for the first time, because it cannot be positioned and cannot be timed by GPS satellites, the time can be synchronized through this command so that the latest real-time position data can be seen on the platform WEB application. If the device is online for the first time, the device will actively send a time synchronization request (8000620011,P22,2). If the platform receives this request, it will send this P22 command to respond to it.				
	Note: This command can only take effect once the GPS is not positioning, otherwise the time synchronization will be failed. After the device is positioned by GPS, it will automatically use GPS satellite time.				
Command	150720164328				
Parameter					
Command	150720164328 Day/month/year/hour/minute/second				
Parameters	the time is UTC time, which is 2020-07-15 16:43:28				
Description					
Response	(8130630001,P22, 1)				
command					
Response	1 means the time synchronization is successful, if it is 0, it means that the time				
command	synchronization has failed				
Description					
Command	■GPRS ■SMS ■UART ■USBHID				
channel					



P13 Factory reset

Send	(P13)
Command	
Function	The device will restore all parameters except the IP address, port, VIP number, APN and APN
Description	account ,unlock password to the factory default settings
Command	None
Parameter	
Command	None
Parameters	
Description	
Response	(8130630001,P13)
command	
Response	None
command	
Description	
Command	_CDDC _CMC _UADT _UCDUID
channel	■GPRS ■SMS ■UART ■USBHID

P50 Enable and disable the power switch

Send	// Enable power switch			
Command	(P50, 1,1)			
	// disable power switch			
	(P50, 1,0)			
	// Query the status of the power switch			
	(P50, 0)			
Function	Enable and disable the power switch of the device mainboard. The default is the enabled state,			
Description	that is, the power switch key can controls turning on and off the device.			
	If it is disabled, when the device is currently powered on, it will not be able to shut down the			
	device by turning on the power key.			
Command	1,1			
Parameter				
Command	1 Operation mode, 1 set ; 0 query			
Parameters	1 1 means the power switch is enabled; 0 means that the power switch is disabled.			
Description	Enabled by default			
Response	(8130630001,P50, 1)			
command				
Response	1 Indicates that the power switch key is enabled			
command				
Description				

Command	■GPRS	■SMS	■UART	■USBHID
channel	■ GFK3	SIVIS	■UAK1	∎ОЗВПІ

P63 Query and Set GPS static drift optimization function

Send	// Enable GPS static drift optimization function					
Command	(P63, 1,1)					
	// Disable GPS static drift optimization function					
	(P63, 1,0)					
	(Dec 20)					
T	(P63,0)					
Function	Query and set GPS static drift optimization function					
Description	When the device is stationary, the number of GPS satellites received by the device's GPS					
	module is different at different times, so the output latitude and longitude will also change.					
	For this reason, the position of the device still changes when the device is stationary. This					
	phenomenon is called GPS static drift.					
	After enable this optimization function, the device will only update the current real-time latitude					
	and longitude information when the device detects vibration or movement, otherwise it will					
	continue to maintain the last valid latitude and longitude information.					
	This feature is turned off by default.					
Command	1,1					
Parameter						
Command	1 Operation mode, 1 Set; 0 Query					
Parameters	1 Enable this function; 0 Disable this function. In default it is disabled.					
Description						
Response	(8130630001,P63, 1)					
command						
Response	GPS static drift optimization function is enabled.					
command						
Description						
Command	■GPRS ■SMS ■UART ■USBHID					
channel	EGFNG EGIVIG EUART EUGDFILD					

P94 Query and Set P45 unlock&lock report-extended field report

Send	// Enable P45 unlock&lock report-extended field report-report IMEI and fence ID field
Command	(P94, 1,3)
	// Disable P45 unlock&lock report-extended field report function
	(P94, 1,0)



	(P94, 0)				
Function	Query/set P45 unlock&lock report-extended field report				
Description	Description This feature is disabled by default. When the IN			MEI data reporting is enabled, the device reports	
	the P45 lock/unlock report. After the mileage field, the device IMEI field and fence ID are added.				
	Note:				
	This function is disabled by	default;			
	This command was added in	n firmware vers	sion 20220304 and late	er;	
	firmware version 20220815	and later version	ons added Bit2 base st	ation positioning information	
Command	1,3				
Parameter					
Command	1 Operation mode, 1 set ;	0 query			
Parameters	3 Extended field value, decimal value, converted to binary as follows,				
Description		·		of the IMEI number field and	
	the fence ID at the same time			7	
		Bit No.	Field	-	
		Bit0	IMEI	-	
		Bit1	Fence ID	-	
		Bit2	MCC:MNC:LAC:C		
			ELLID		
		Bit3-Bit15	Reserved		
Response	(8130630001,P94, 3)				
command					
Response	3 Indicates P45 unlock&loc	ck report-exten	ded field report		
command					
Description	P45 unlock&lock report Rawdata Example(ASCII):				
	(8130630001,P45,260915,1	•		,0,15,1,1,0026589876,0,0,1,	
	234,863977039060871,7,46	60:0:19526:584	115)		
Command channel	■GPRS ■SMS ■UART	■USBHID			

P97 Query and Set GNSS module power saving mode

Send	// Enable GNSS module power saving mode
Command	(P97, 1,1)
	// Disable GNSS module power saving mode (P97, 1,0) (P97, 0)
Function	Query/set the power saving mode of the GNSS module.
Description	GNSS module-power saving mode: the reporting interval of the device after waking up > 60
	seconds (P04 command - reporting interval parameter after waking up the device), after the GNSS module is positioned, the device will turn off the GNSS module for 60 seconds and then



	turn it on to achieve the purpose of saving power consumption;				
	Turn off the GNSS module-power saving mode: During the wake-up period of the device,				
	the GNSS module continues to work until the device sleeps, and the GNSS module is turned				
	off.				
	Note:				
	After this function is turned on, the GNSS module of the device will continue to run and				
	cannot enter the intelligent power saving mode, and the power consumption of the whole				
	machine will increase.				
	This command was added in firmware version 20220628 and later				
Command	1,1				
Parameter					
Command	1 Operation mode, 1 Set ; 0 Query				
Parameters	1 Enable this function; 0 Disable this function. In default it is enabled.				
Description					
Response	(8130630001,P97, 1)				
command					
Response	GNSS module-power saving mode function is enabled.				
command					
Description					
Command	■GPRS ■SMS ■UART ■USBHID				
channel	EGFNG EGIVIG EUART EUGDNID				

P105 Query and Set the working network of the cellular module

Send	// Configure 4G communication module, only work on 2G network				
Command	(P105, 1,2)				
	// Configure 4 (P105, 1,0)	4G communication module, autom	atically switch 4G/3G/2G network		
	(P105, 0)				
Function	Query/set the	e working network of the 4G comm	unication module.		
Description	Note:				
	If the device is a 2G module, this command is not supported				
	This command was added in firmware version 20220815 and later				
Command	1,2				
Parameter					
Command	1 Operation mode, 1 Set ; 0 Query				
Parameters	2 Working network parameters. Value range [0,2~4]				
Description		Working network parameters			
		0	automatically switch		
			4G/3G/2G network		



		2	4G module only searches 2G network	
		3	4G module only searches 3G network	
		4	4G module only searches 4G	
			network	
Response	(8130630001	,P105, 2)		
command				
Response	2 Indicates	that the 4G module only works	s on the 2G network; if the cellular mod	ule does not
command	support the n	etwork switching, it will return	255	
Description				
Command	■GPRS ■S	SMS ■UART ■USBHID		
channel	■GFRS ■3	SINIS EUARI EUSDIID		

P67 Query and Set the password verification function of configuration parameters

Send	// Set or modify the verification password :ASD123456 to configure the device
Command	(P67,1,ASD123456)
	// Cancel this verification password function
	(P67,2,ASD123456)
	// Verify the password ,this command will only take effect for 60 sec (P67,3,ASD123456)
	// Query the verification password via platform TCP channel. can only support TCP channel. (P67,4)
Function Description	This function limits the Micro-USB /Serial port configure cable/ Bluetooth /SMS channel's device parameters configuration. Note:
	For the 20220815 firmware version, if the password verification function of configuration
	parameters is enabled, the password verification command(P67,3,ASD123456) must be sent first, and then the unlock command(P43,888888) will be sent to unlock normally.
	In the 20230324 firmware version and later, we canceled the control of this function on the SMS
	channel. That is to say, if this function is turned on, the SMS will not be affected, and there is
	no need to verify the password again.
Command	1,ASD123456
Parameter	
Command	1 Operation mode,



Parameters	1 Set or modify ;	
Description	2 Cancel this function. But the password must be verified once before cancellation is	
	allowed;	
	3 Verify(Check) the password. Need to check this password every 60 sec;	
	4 Query the password via Platform TCP channel;	
	ASD123456 Verify password. Total 25 characters. Must be letters or numbers.	
Response	(8130630001,P67, 1,ASD123456)	
command		
Response	1 Set	
command	ASD123456 Verify password of configuration	
Description		
Command	■GPRS ■SMS ■UART ■USBHID	
channel	BOFNO BOIND BOANT BOODIIID	

SMS configuration

P11 Query and Set VIP phone number

Send	// Set VIP1 phone number to + 8615017935422		
Command	(P11,1,1,+8615017935422)		
	// Set VIP5 phone number to + 8613717935411		
	(P11 ,1,5,+8613717935411)		
	// Ouery VIR1 phone number setting		
	// Query VIP1 phone number setting		
	(P11, 0,1)		
	(D44 0 E)		
E	(P11,0,5)		
Function	Query and configure VIP phone numbers, This number is used to receive the sent SMS		
Description	command reply message, as well as the SMS alarm message		
	4.4.20450450505		
Command	1,1,+8615017935422		
Parameter			
Command	1 Operation mode, 1 set ; 0 query		
Parameters	1 VIP phone No. index. Value range [1~5] Max support 5 VIP number		
Description	+8615017935422 +86 is country code, 15017935422 is phone number		
	Note: For firmware version 20220304 and later, the VIP phone number is limited to 20		
	characters. Previous firmware versions were 15 characters.		
Response	(8130630001,P11 ,1,+8615017935422)		
command			
Response	1 VIP1 index		



command	+8615017935422		VIP1 phor	one number
Description				
Command	-CDDC	-040	_LIADT	-LICPLUD
channel	■GPRS	∎SMS	■UART	■USBHID

P12 Query and Set VIP phone number to receive SMS alarm

Send	// Set VIP1 and VIP2 to receive SMS alarm, other VIP numbers are not able to receive.	
Command	(P12, 1, 1, 1, 0, 0, 0)	
	// Set all VIP numbers to receive SMS alarm.	
	(P12,1,1,1,1,1)	
	(P12,0)	
Function	Query and Set VIP phone number to receive SMS alarm.	
Description		
Command	1,1,1,0,0,0	
Parameter		
Command	1 Operation mode, 1 set ; 0 query	
Parameters	1 VIP1, 1 enable to receive SMS alarm on VIP1 number; 0 disable	
Description	1 VIP2, 1 enable; 0 disable	
	VIP3, 1 enable; 0 disable. example value means disabled	
	0 VIP4, 1 enable; 0 disable	
	0 VIP5, 1 enable; 0 disable	
Response	(8130630001,P12, 1,1,0,0,0)	
command		
Response	1,1,0,0,0 same with above command parameter description	
command		
Description		
Command		
channel	■GPRS ■SMS ■UART ■USBHID	
GHAIHIGH		

P23 Query and Set SMS/phone call wake-up function

Send	(P23, 1,1)
Command	(P23, 0)
Function	Query and Set SMS and phone wake-up function
Description	After this function is enabled, when the device is in the standby sleep state, the user can send any message command or call the SIM card number in the device to wake-up for working 10 minutes. Note the standby power consumption of the device will increase if enabled.
Command	1,1



Parameter	
Command	1 Operation mode, 1 set ; 0 query
Parameters	1 Enable this function; 0 Disable this function. By default, disabled this function.
Description	
Response	(8130630001,P23, 1)
command	
Response	1 means this function is enabled.
command	
Description	
Command	■GPRS ■SMS ■UART ■USBHID
channel	EGPRO ESINO EUARI EUSDAID

P70 Enable and Disable non-VIP numbers to wake up the device

Send	(P70, 1,1)		
Command	(P70, 0)		
Function	Enable and Disable non-VIP number wake-up device function; default is disabled.		
Description	After turning on this function, JT701D will allow the device to wake up the device through any		
	mobile phone number-sending SMS commands or phone calls.		
	After turning off this function, JT701D only allows the device to wake up the device via the VIP		
	mobile phone number-sending SMS commands or phone calls.		
	Note:		
	If JT701 model, after enabling this function, all incoming SMS numbers received by the device		
	are automatically registered as VIP numbers. Meanwhile, the JT701D model does not		
	automatically register these numbers as VIP numbers.		
Command	1,1		
Parameter			
Command	1 Operation mode, 1 set ; 0 query		
Parameters	1 Enable this function; 0 Disable this function. In default this function is disabled		
Description			
Response	(8130630001,P70, 1)		
command			
Response	1 enabled this funciton.		
command			
Description			
Command	■GPRS ■SMS ■UART ■USBHID		
channel	ECITIC ECIMO ECATA ECODITID		

P10 Query and Set SMS alarm time difference



	(P10, 0)
Function	Query and Set the time difference in the SMS alarm content of the device. The default device
Description	SMS alarm time difference is 0 (UTC time).
	The user can use this comand to adjust the time in the SMS alarm content to the user's local
	time.
Command	1,480
Parameter	
Command	1 Operation mode, 1 set ; 0 query
Parameters	480 Time difference value. The unit is in minutes. Value range [-720~780], default value=0
Description	E.g. : Beijing Time Zone UTC +08:00 Time difference value is 8 hours: 8*60 = 480min,
	Canada Time Zone UTC -04:00 Time difference value: -4*60 = -240 min
Response	(8130630001,P10, 480)
command	
Response	480 time different value is 480/60=8hours, means timezone is UTC +08:00
command	
Description	
Command	■GPRS ■SMS ■UART ■USBHID
channel	■GPRS ■SMS ■UART ■USBHID

P65 Query and Set device alias

Send	(P65,1,HZBC12345)
Command	(P65, 0)
Function	Query and Set device alias
Description	By default, in the SMS position data or alarm data reported, the device identifier is the device
	ID. After the device alias is configured, this Alias name will replace the device ID.
Command	1,HZBC12345
Parameter	
Command	1 Operation mod, 1 set ; 0 query
Parameters	HZBC12345 Device alias。 Supports English, numbers and characters.
Description	
Response	(8130630001,P65, HZBC12345)
command	
Response	HZBC12345 Device alias is HZBC12345
command	
Description	
Command	■GPRS ■SMS ■UART ■USBHID
channel	EGFRS ESIVIS EUART EUSBRID

Authorized card management

P41 Query, add, delete certain, delete all RFID authorization cards

Send	//Add 20 RFID authorization cards
Command	(P41,1,1,20,0002124750,0002153582,0015451297,0006734739,0006688921,0007742247,0
	008104563,0008104852,0008153513,0006033341,0000000031,0000000032,0000000033,00
	00000034,0000000035,00000000036,00000000037,00000000038,0000000039,0000000040)
	//Delete certain RFID authorization card
	(P41, <mark>1,2,3</mark> ,0002124750,0002153582,0015451297)
	(1 + 1, 1, 2, 3, 0002 12 + 1 00, 0002 10 0002, 00 10 + 0 12 0 1
	//Query first group RFID authorization cards
	(P41, <mark>0,1</mark>)
	//Delete all the authorization cards
	(P41, <mark>1,3</mark>)
Function	Query, add, delete certain RFID card numbers, delete all RFID authorization cards
Description	Currently JT701D max supports up to 500 RFID cards;
	Note: JT701 standard firmware only supports 50 RFID cards by default.
Command	1,1,20, 0002124750,0002153582,0015451297,0006734739,0006688921,0007742247,000810
Parameter	4563,0008104852,0008153513,0006033341,0000000031,0000000032,0000000033,0000000
	034,000000035,0000000036,0000000037,0000000038,0000000039,0000000040
Command	1 Operation mode, 1 set ; 0 query
Parameters	1 operation Type
Description	If operation mode is 1 then 1 add RFID authorization cards
	2 Delete certain RFID authorization card
	3 Delete all authorization cards
	If operation mode is 0 then 1 Query first group RFID authorization cards
	2 Query second group authorization cards
	3 Query third group authorization cards
	25 MAX support 25 groups. Each group display max 20
	RFID cards. Total card quantity is 500.
	20 RFID card quantity
	If operation mode is 1 and operation type is 1, then parameter 20 means add 20 pieces
	RFID authorization cards. Value range [1~20] If operation mode is 1 and operation type is 2, then parameter 20 means delete 20 pcs
	RFID cards, Value range [1~20]
	If operation mode is 1, and operation type is 3, ignore this parameter
	If operation model is 0 , ignore this parameter
	ii operation model to V , ignore this parameter
	0002124750,0002153582,0015451297,0006734739,0006688921,0007742247,0008104563,0
	008104852,0008153513,0006033341,0000000031,0000000032,000000033,0000000034,00
	333131332,33331333133313333333333333333



	00000035,0000000036,0000000037,0000000038,0000000039,0000000040 Means 20 RFID card number, Separated by comma, RFID card number value range [0000000001 ~ 4294967295]
Response command	Example command- Related response command (8130630001,P41,1,20,0002124750,0002153582,0015451297,0006734739,0006688921,000 7742247,0008104563,0008104852,0008153513,0006033341,0000000031,0000000032,0000 000033,0000000034,0000000035,00000000036,0000000037,00000000038,0000000000000000
	(8130630001,P41,2,17) (8130630001,P41,1,17,0006734739,0006688921,0007742247,0008104563,0008104852,000 8153513,0006033341,0000000031,0000000032,0000000033,0000000034,0000000035,0000 000036,0000000037,00000000038,00000000039,0000000040)
Response command Description	(8130630001,P41,3,0) Example command- Explain of Related response command (8130630001,P41,1,20,0002124750,0002153582,0015451297,0006734739,0006688921,000 7742247,0008104563,0008104852,0008153513,0006033341,0000000031,0000000032,0000
Becompact	000033,0000000034,0000000035,00000000036,00000000037,00000000038,000000000000000
	(8130630001,P41,2,17) 2 means operation type is to delete certain card. device still left 17pcs RFID cards
	(8130630001,P41,1,17,0006734739,0006688921,0007742247,0008104563,0008104852,000 8153513,0006033341,0000000031,0000000032,0000000033,0000000034,0000000035,0000 000036,0000000037,0000000038,0000000039,0000000040) 1 means first group RFID cards. 17 means first group have 17 cards
	(8130630001,P41,3,0) 3 means operation type is to delete all RFID cards. 0 after delete all RFID cards, device left 0 card.
Command channel	■GPRS ■SMS ■UART ■USBHID

P42 Enable and disable Register RFID authorization card on site

Send	(P42, 1)
Command	(P42, 0)
Function	Enable and disable the on-site registration function of RFID authorization cards,
Description	After enabling this function, the user can directly swipe a single RFID card to authorize. If one



	RFID card is recognized, the buzzer will beep once. You can continue to swipe the other RFID
	cards. Each time max support to authorized 20 cards. If the number of RFID cards registered
	this time is more than 20, the buzzer will continue to sound for 3 seconds, indicating that the
	on-site registration of the RFID authorization card function has automatically ended.
	Or if the device does not detect the RFID card swiping within 60 seconds, the function will
	automatically end, and the buzzer will continue to sound for 3 seconds.
Command	1
Parameter	
Command	1 Enable this function ; 0 Disable this function
Parameters	
Description	
Response	(8130630001,P42, 1)
command	(8130630001,P42, 2,0008932328,0008933493)
	After authorization cards via this function, the device will automatically report the newly
	registered RFID card to the platform
Response	1 means this function has enabled.
command	2,0008932328,0008933493 2 means registered 2 RFID cards. And the card number is
Description	0008932328 and 0008933493
Command	ODDO CMC HADT HODHID
channel	■GPRS ■SMS ■UART ■USBHID

Unlock/lock and remote control

P43 Remote static password unlock

Send	(P43, 888888)
Command	
Function	Remotely unlock the device by static password
Description	In default, password is 888888
Command	888888
Parameter	
Command	888888 static password.
Parameters	
Description	
Response	(8130630001,P43, 1,0)
command	
Response	1,0
command	1 wether unlock successfully, 1 success, 0 failed
Description	Indicates the number of consecutive incorrect password entries.
	If password is correct, the value will be cleared to zero
Command	■GPRS ■SMS ■UART ■USBHID
channel	EGFNG EGING EGANT EGGBITID



P44 Modify static password

Send	(P44, 12#aAM,888888)
Command	(P44, 1)
Function	Modify static password
Description	
Command	12#aAM,888888
Parameter	
Command	12#aAM means new password. It must be combination of random 6 digits, letters and
Parameters	characters. This parameter is 1, means query password, this query command can
Description	only be queried through the platform TCP channel
	888888 means valid password.
Response	Example command-Related response command.
command	(8130630001,P44, 1)
	(8130630001,P44, 12#aAM)
Response	Example command- Description of Related response command
command	(8130630001,P44, 1)
Description	1 1 means modify static password successfully, 0 means modify failed
	(8130630001,P44, 12#aAM)
	12#aAM means valid password is 12#aAM
	//If the command is queried through a non-TCP channel
	(8130630001,P44,Not Allow)
Command channel	■GPRS ■SMS ■UART ■USBHID

P52,3 Remote dynamic password unlocking

Send	(P52, 3,223457)
Command	
Function	Remote dynamic password to unlock the device
Description	The premise of this function is that the P52,1 command has enabled the dynamic password
	unlock function; the platform has recorded the current device dynamic password, otherwise this
	function is invalid.
Command	3,223457
Parameter	
Command	3 command ID is 3, means the third command of P52
Parameters	223457 means recent dynamic password, usually 6 numbers.
Description	
Response	(8130630001,P52,3, 1,0)



command	
Response	1 means whether unlock is successfully, 1 success, 0 failed
command	Indicates the number of consecutive incorrect password entries. When the password is
Description	entered correctly, the value will be cleared to zero
Command	■GPRS ■SMS ■UART ■USBHID
channel	■GPRS ■SMS ■UART ■USBHID

P52,1 Query and Set the dynamic password unlock function

	WT
Send Command	// Turn on the dynamic password unlock function, but not associated with Geofence (P52,1,1,1,0)
	// Turn on the dynamic password unlocking function, and associate the Geofence, only in the fence, can use the dynamic password to unlock (P52,1,1,1,1)
	// Query dynamic password unlock function (P52,1,0)
Function	Query and Set the dynamic password unlock function
Description	Note: After the dynamic password unlocking function is enabled, the dynamic password will only be actively updated when the lock rope is pulled out and inserted to lock again. If the lock is unlocked but the lock rope is not pulled out, the lock is automatically locked then, or the lock rope is pulled out, and the lock rope is not inserted back to lock, the dynamic password will not be updated. The dynamic password report P52,2 is sent to the platform every minute, and the platform needs to respond to this P52,2 report, otherwise it will continue to be sent to the platform at 1-minute intervals.
Command	1,1,1,1
Parameter	
Command	1 command ID, means it's the first command of P52
Parameters	1 operation mode, 1 Set ; 0 query
Description	 1 means function of using dyminic password for unlock is enabled.; 0 diasbled 1 means only in certain fence can use dyminic password to unlock.; 0 Means that the dynamic password unlocking has nothing to do with whether you are in the fence, as long as the dynamic password is correct, you can unlock
Response	(8130630001,P52,1, <mark>1,0</mark>)
command	
Response	1,0
command	1 Indicates that the dynamic password unlocking function has been turned on;
Description	0 Means that the dynamic password unlocking has nothing to do with whether you are in
	the fence, as long as the dynamic password is correct, you can unlock
Command channel	■GPRS ■SMS ■UART ■USBHID



P52,0 Query current device dyminic password

Send	(P52,0)
Command	
Function	Query the current dynamic unlocking password
Description	This query password command can only be queried through the platform TCP channel.
Command	None
Parameter	
Command	None
Parameters	
Description	
Response	// If the dynamic password unlocking function has been turned on,response
command	(8130630001,P52,0,000000, 386531)
	// If the dynamic password unlocking function is not enabled, response
	(8130630001,P52,0,,)
	//If the command is queried through a non-TCP channel
	(8130630001,P52,0,Not Allow)
Response	386531 Indicates the current dynamic password, random 6 digits
command	
Description	
Command	■GPRS ■SMS ■UART ■USBHID
channel	ECLING ECINIC ECANT ECODITIO

P59 Query and Set unlock channel control

Send	(P59, 1 ,1,1,1,1)
Command	(P59, 0)
Function	Query and Set unlock channel
Description	Through this command, you can control whether the device can be unlocked through SMS,
	GPRS, RFID authorization card, serial port, and Bluetooth channel.
	For example: after closing the GPRS channel and unlocking, the platform will send the correct
	static password P43 or dynamic password P52,3 command, and the lock cannot be unlocked.
	By default, all channels are allowed to be unlocked.
Command	1,1,1,1,1
Parameter	
Command	1 Operation mode, 1 Set; 0 Query
Parameters	1 SMS Channel, 1 enable unlock function ; 0 Disable unlock function
Description	GPRS Channel, 1 enable unlock function; 0 Disable unlock function
	1 RFID authorized card, 1 enable unlock function ; 0 Disable unlock function
	Serial Port channel , 1 enable unlock function ; 0 Disable unlock function



	1 Bluetooth channel , 1 enable unlock function ; 0 Disable unlock function		
Response	(8130630001,P59, <mark>1,1,1,1,1</mark>)		
command			
Response	1,1,1,1,1 same explain as above		
command			
Description			
Command	■GPRS ■SMS ■UART ■USBHID		
channel	BGPRS BSINIS BUART BUSBRID		

P15 Remote restart

Send	(P15)
Command	
Function	Restart the device remotely
Description	Send (P15), around 30 seconds later, the device will restart
Command	None
Parameter	
Command	None
Parameters	
Description	
Response	(8130630001,P15)
command	
Response	
command	
Description	
Command	■GPRS ■SMS ■UART ■USBHID
channel	EGFRS ESIVIS EUART EUSBRID

P32 Force the device to enter sleep mode

Send	(P32)
Command	
Function	Force the device to enter sleep mode
Description	Send a forced sleep command, around 30 seconds later, the device will enter sleep.
	This command is mainly used to test whether the device can sleep, and whether it can wake
	up the device through various wake-up sources during sleep to speed up the test.
Command	None
Parameter	
Command	None
Parameters	
Description	
Response	(8130630001,P32)



command					
Response]
command					
Description					
Command	-CDDC	-0140	-UADT	-LICEUID]
channel	■ GPRS	■SIVIS	■UART	■USBHID	

P83 Query and Set the automatic lock time of the device

Send	//Set the device's automatic lock time to 1 minute.		
Command	(P83 ,1,1)		
	//Set the device's automatic lock time to 5 minute.		
	(P83, 1,5)		
	//Query the automatic lock time of the device		
	(P83, 0)		
Function	Query and set the automatic locking time of the device; when the device is unlocked and the		
Description	lock rope is not pulled, the default automatic locking time is 1 minute.		
	Note:		
	This command was added in firmware version 20220304 and later.		
Command	1,5		
Parameter			
Command	1 Operation mode, 1 Set; 0 Query		
Parameters	5 Automatic locking time when the lock rope is not pulled out from JT701 device, unit: minute		
Description	Value range [1~10] The default is 1 minute		
Response	(8130630001,P83, 1)		
command			
Response	1 Auto-lock time is 1 minute		
command			
Description			
Command	■GPRS ■SMS ■UART ■USBHID		
channel	TO TO TOMO TO THE TOTAL		

P91 Deep sleep warehousing mode (Shutdown device remotely)

Send	(P91)
Command	
Function	Shutdown device remotely(force the device enter into deep sleep warehousing mode).



Description	Application scenario: The device has been configured with parameters, insert the SIM card, and turn on the power switch. In order to solve the inconvenience of transportation safety, saving power consumption during transportation, re-opening the cover and turning it on, the user sends the P91 command, and the device will enter this warehousing sleep mode. In this mode, the device cannot be woken up by vibration, it needs to be woken up by swiping the RFID card and charging the device. Note:
	When the device is set to the warehousing mode, it can only be woken up by swiping a card or
	charging;
	This command was added in firmware version 20220304 and later.
Command	None
Parameter	
Command	None
Parameters	
Description	
Response	(8130630001,P91, 1)
command	
Response	1 Set successfully, the device enter the storage dormancy
command	
Description	
Command	CDDC CMC HADT HODING
channel	■GPRS ■SMS ■UART ■USBHID

Alarm configuration

P40 Query and Set the switch of GPRS/SMS alarm

Send	(P40, 1,1,1,1,1,1,1,1,1)			
Command	(P40, 1 , 3 , 0 , 1)			
	(P40, 0)			
Function	Query and set the switch of GPRS/SMS alarm			
Description	The device can be configured whether to send GPRS alarm data, whether to send SMS alarm			
	information.			
	10 types of alarms are supported by default			
Command	1,1,1,1,1,1,1,1,1,1			
Parameter				
Command	1 Operation mode, 1 Set ; 0 Query			
Parameters	1 Corresponding to the lock rope cut alarm,			
Description	If the parameter is 0, it means to close GPRS and SMS alarm			
	If the parameter is 1, it means that only GPRS alarm is turned on			
	The parameter is 2 means that only SMS alarm is turned on			



	The parameter is 3, which means to turn on both GRPS and SMS alarm			
	1 Corresponding to the swiping illegal RFID card alarm, the same as the parameter description of the lock rope cut alarm			
	1 Corresponding to the long-time unlocking alarm, the same as the parameter description of the lock rope cut alarm			
	1 Corresponding 5 consecutive incorrect passwords alarm, same parameter description as lock rope cut alarm			
	1 Corresponding to vibration alarm (this alarm in JT701D is disabled), same parameter description as lock rope cut alarm			
	1 Corresponding to enter fence alarm, same parameter description as lock rope cut alarm.			
	1 Corresponding to exit fence alarm, same parameter description as lock rope cut alarm.			
	1 Corresponding to low battery alarm, same parameter description as lock rope cut alarm.			
	Corresponding to back cover open alarm, same parameter description as lock rope cut			
	alarm.			
	Corresponding to the lock stuck alarm, same parameter description as lock rope cut alarm			
Response	(8130630001,P40, <mark>1,1,1,1,1,1,1,1,1,0,0,0,0)</mark>			
command				
Response	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,			
command	0,0,0,0 Customized alarm type, in order to consider the command response compatibility, it			
Description	can be ignored			
Command Channel	■GPRS ■SMS ■UART ■USBHID			

P61 Query and Set low battery alarm threshold

Send	(P61, 1,30)		
Command	(P61, 0)		
Function	Query and set low battery alarm threshold.		
Description	The default battery level is less than 30%, then this alarm is generated.		
Command	1,30		
Parameter			
Command	1 Operation mode, 1 Set; 0 Query		
Parameters	30 means low battery alarm threshold, value range [0~90]		
Description			
Response	(8130630001,P61, 30)		
command			
Response	30 The threshold of low level power alarm is 30%		
command			
Description			
Command	■GPRS ■SMS ■UART ■USBHID		
Channel	■GPRS ■SMS ■UART ■USBHID		



P36 Query and Set Vibration alarm threshold

Send	//Set the vibration alarm threshold to 1000mg			
Command	(P36, 1,1000)			
	//Turn off vibration alarm detection			
	(P36, 1,0)			
	//Query the vibration alarm threshold value			
	(P36, 0)			
Function	query and set vibration alarm threshold			
Description	This alarm is generated when the vibration threshold of the detection equipment exceeds the			
	preset alarm threshold.			
	In order to avoid multiple vibration alarms, only one vibration alarm is generated within 10			
	minutes.			
	The vibration alarm threshold must be greater than the P37 command configuration			
	Note:			
	This command was added in firmware version 20211222 and later			
Command	1,1000			
Parameter				
Command	1 Operation mode, 1 Set; 0 Query			
Parameters	1000 the value range is 0 or [126~8000], the unit is mg.			
Description	0 means Turn off the vibration alarm detection. Default value is 0			
Response	(8130630001,P36, 1000)			
command				
Response	1000 The alarm threshold for vibration alarm			
command				
Description				
Command	■GPRS ■SMS ■UART ■USBHID			
Channel	TO TO TO HOVE TO THE TOTAL			

P38 Query and Set long-time unlocking alarm

Send	(P38, 1,120)		
Command	(P38, 0)		
Function	query and set long-time unlocking alarm		
Description	When the device is unlocked, the lock rope is pulled out for a preset time, this alarm will be		
	generated, the default is 120 minutes		
Command	1,120		
Parameter			
Command	1 Operation mode, 1 Set ; 0 Query		
Parameters	120 Long-time unlocking alarm threshold, the unit is minute, the value range is [3~180]		

Description	
Response	(8130630001,P38, 120)
command	
Response	120 The alarm threshold for long-time unlocking is 120 minutes
command	
Description	
Command	-CDDS -SMS -HADT -HSBHID
Channel	■GPRS ■SMS ■UART ■USBHID

Geofence configuration

P24 Query and Set Geofence function and geofence name

Send	(P24, <mark>1,10,1</mark> ,area10)
Command	(P24, 0,1)
Function	Query and set Geofence function and corresponding geofence name
Description	
Command	1,10,1,area10
Parameter	
Command	1 Operation mode, 1 Set; 0 Query
Parameters	10 means geofence ID, value range[1~10]
Description	1 means the function of corresponding geofence is valid; 0 means that the function of the
	fence ID is invalid. If the device enters or exits the fence, no fence alarm will be generated
	area10 The name of the fence, which is a combination of letters and numbers, with a maximum
	length of 16 characters
Response	(8130630001,P24 <mark>,10,1</mark> ,area10)
command	
Response	10,1,area10 same description as Command parameters
command	
Description	
Command	CDDC CMC HADT HODHID
Channel	■GPRS ■SMS ■UART ■USBHID

P29 Query and configure the enter and exit fence node information

Send	//Configure fence ID 1 fence node information - this fence consists of 9 local	ation
Command	$nodes (P29, \textcolor{red}{\textbf{1,1,1,9}}, \textcolor{red}{11400.623,2233.6325,11400.7988,2233.7466,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,2233.7686,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.9575,11400.95750,11400.9575,11400.95750,11400.95750,11400.95750,11400.95750,11400.95750,11400.95750,11400.95750,11400.95750,11400.95750,11400.9$	114
	01.0304,2233.6775,11401.0434,2233.5696,11401.0221,2233.4972,11400.7991,2233.4543	3,11

	400.6833,2233.457,11400.6618,2233.4688)
	/Configure fence ID 3 fence node information-the fence consists of 8 location nodes
	(P29, 1,3,1,8 ,-7531.1858,832.923,-7529.5627,832.3909,-7529.3562,831.6025,-
	7529.9445,830.1557,-7530.5315,828.4319,-7532.2582,829.0359,-7533.0169,829.6902,-
	7531.3584,832.681)
	//Query the fence node information of fence ID 1
	(P29, 0,1)
Function	Query and configure the enter and exit fence node information
Description	The device supports up to 10 fences by default, and one fence supports up to 50 location node
	information. When the platform GPRS configures the electronic fence, it is recommended to use a 10-node
	fence to improve the success rate of the platform to configure the fence.
	For 50 latitude and longitude nodes, 5 commands are required to configure the fence node
	information. It is recommended to configure the fence information through the JT701D serial
	port configuration software provided by Jointech.
Command	1,1,1,9 ,11400.623,2233.6325,11400.7988,2233.7466,11400.9575,2233.7686,11401.0304,223
Parameter	3.6775,11401.0434,2233.5696,11401.0221,2233.4972,11400.7991,2233.4543,11400.6833,22
	33.457,11400.6618,2233.4688
Command	1 Operation mode, 1 Set ; 0 Query
Parameters	Indicates that the fence ID is 1, and the value range is [1~10]
Description	1 First page. Node page index. The maximum is 5 pages. Value range: [1~5]
	9 This page has 9 location nodes. The total position node in the page index. The location
	node consists of longitude and latitude values. If the longitude value is negative, it means
	west longitude, and if it is positive, it means east longitude; if the latitude value is negative, it means south latitude, and if it's positive, it means north latitude. Maximum 10 nodes
	supported on a page.
	11400.623,2233.6325 first node
	11400.6230 East longitude DDDMM.MMMM format
	Note:
	07531.1858 The first 0 can be omitted, which is equivalent to 7531.1858
	11400.6230 The last 0 can be omitted, which is equivalent to 11400.623
	2233.6325 represents the north latitude DDMM.MMMM format
	11400.7988,2233.7466 2 nd node
	11400.9575,2233.7686 3 rd node
	11401.0304,2233.6775 4 th node 11401.0434,2233.5696 5 th node
	11401.0434,2233.5696 5 th node 11401.0221,2233.4972 6 th node
	11400.7991,2233.4543 7 th node
	11400.6833,2233.457 8 th node
	11400.6618,2233.4688 9 th node
Response	(8130630001,P29, 1,9,1,9 ,11400.6230,2233.6325,11400.7988,2233.7466,11400.9575,2233.7
command	686,11401.0304,2233.6775,11401.0434,2233.5696,11401.0221,2233.4972,11400.7991,2233
	.4543,11400.6833,2233.4570,11400.6618,2233.4688)



Response	1,9,1,9
command	1 Geofence ID 1
Description	9 Fence ID 1,a total of 9 nodes
	1 First page
	9 The current page, a total of 9 nodes.
	11400.6230,2233.6325,11400.7988,2233.7466,11400.9575,2233.7686,11401.0304,2233.677
	5,11401.0434,2233.5696,11401.0221,2233.4972,11400.7991,2233.4543,11400.6833,2233.4
	570,11400.6618,2233.4688 Same as the description of Command parameters, after the
	latitude/longitude/minute and floating point data are converted, there may be a slight error
	between the last decimal point and the command parameters node information, which does not
	affect the actual results.
Command	■GPRS ■SMS ■UART ■USBHID
Channel	BUFNO BOIND BUANT BUODITID

P30 Delete the fence node of the fence ID

Send	(P30, 3)
Command	
Function	Delete the fence nodes of the fence ID
Description	
Command	3
Parameter	
Command	means the fence ID is 3, value range[1~10]
Parameters	
Description	
Response	(8130630001,P30, 1)
command	
Response	1 means the deletion was successful; 0 means the deletion failed
command	
Description	
Command	■GPRS ■SMS ■UART ■USBHID
Channel	EGFRO EGINO EGARI EGGDIIID

P31 Notify the device that the Geofence is configured

Send	(P31)
Command	
Function	Notify the device that the fence node of the fence ID is configured
Description	
Command	None
Parameter	
Command	None

Parameters	
Description	
Response	(8130630001,P31)
command	
Response	
command	
Description	
Command	■GPRS ■SMS ■UART ■USBHID
Channel	EGFRS ESIVIS EUART EUSBRID

P58 Query and Set authorized RFID card unlocking associated Geofence

Send	(P58, 1,1)
Command	(P58, 0)
Function	Query and configure the geofence associated with authorized RFID card
Description	After configuring the fence associated with the RFID card, The device can only be unlocked
	with authorized RFID within the configured fence, otherwise the buzzer will keep on beeping
	for 3 seconds, indicating that the illegal RFID card cannot be unlocked. This feature is turned
	off by default.
Command	1,1
Parameter	
Command	1 Operation mode, 1 Set ; 0 Query
Parameters	1 Associate the authorized RFID to unlock within geofence; 0 means to close this function.
Description	This feature is turned off by default
Response	(8130630001,P58, 1)
command	
Response	1 Associate the authorized RFID to unlock within geofence
command	
Description	
Command	■GPRS ■SMS ■UART ■USBHID
Channel	EGFNG EGIVIG EUGENIU

P52,1 Query and Set dynamic password unlocking associated geofence

Refer to this article P52,1 Query and set the dynamic password unlock function

Read the device's FLASH via serial port(customized firmware)

P19 Obtain positioning data and Unlock & lock report

Send	
Command	
Function	Obtain position data and unlock & lock report from serial port.
Description	Customized function, detail is not presented in this document.
Command	
Parameter	
Command	
Parameters	
Description	
Response	
command	
Response	
command	
Description	
Command	■GPRS ■SMS ■UART ■USBHID
Channel	BUCKS BOIND BUAKI BUSDAID

DEBUG Remote debugging commands

P98,10,0 Query the number of data cached in the device FLASH

Send	(P98,10, 0)
Command	
Function	Query the number of cached data items in the FLASH of the JT701D device, the cached data
Description	includes position data, alarm data, and P45 unlock & lock report
	Note: In JT701, This command queries the number of cached data items of position data and
	alarm data. If you need to query the number of data items in the P45 unlock & lock report, you
	need to send (P98,11, 0)
	At present, the FLASH cache data of JT701D device is mainly used for the blind area
	supplementary report function, and will not store data continuously. After all the data is reported
	in the blind zone, the data stored in FLASH will be cleared automatically.
Command	0
Parameter	
Command	0 Query
Parameters	



Description	
Response	(8130630001,P98,10,0, 37 ,0)
command	
Response	37 Indicates that 37 pieces of data have been cached in the current FLASH and have not
command	been sent to the platform; when all the cached data has been sent, this value is 0
Description	
Command	■GPRS ■SMS ■UART ■USBHID
Channel	EGFRS ESIVIS EUART EUSBRID

P98,10,1,0,0 Delete all cached data in device FLASH

Send	(P98,10, 1,0,0)				
Command					
Function	Delete all cached data in FLASH of JT701D device				
Description	The actual JT701D can operate for a maximum of 15 seconds. If it has not been deleted, you				
	need to send this command again to continue deleting				
	Note: This command of JT701 device only deletes the buffered data of position data and alarm				
	data. If you need to delete the P45 unlock & lock report data, you need to send (P98,11, 1,0,0)				
Command	1,0,0				
Parameter					
Command	1 Delete cached data				
Parameters	0,0 fixed value is enough				
Description					
Response	(8130630001,P98,10,0, 0 ,0)				
command					
Response	• Indicates that the current remaining cached data is 0, that is, all cached data has been				
command	deleted				
Description					
Command	■GPRS ■SMS ■UART ■USBHID				
Channel	EGFRS ESIVIS EUART EUSBRID				

P98,6 View the AT command flow of the communication module and GPS-NMEA data

Send	// View the AT command flow of the communication module			
Command	(P98, 6,6)			
	// View the GPS-NMEA data (P98, 6,1)			
	// Stop view			



	(P98, 6,0)			
Function	View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data			
Description	Used to troubleshoot abnormal situations such as device failure to connect to the GPRS network, GPS failure to locate, and location errors			
	This command is recommended to be sent and queried through the serial port configuration cable			
Command Parameter	6,6			
Command	6 Indicates the instruction ID, the sixth instruction of P98			
Parameters	6 6 means to query AT command flow			
Description	1 means to query GPS-NMEA data			
	0 means to stop querying AT command and GPS-NMEA data			
Response command	(8130630001,P98,6, 6)			
Response	6 Same as Command parameters description			
command				
Description				
Command Channel	■GPRS ■SMS ■UART ■USBHID			

Peripheral configuration

Query, delete and bind JT709 slave lock or JT126 temperature & humidity sensor to the master lock

Pls reference to document 《JT126 Temperature Sensor and JT709 Sub Lock Integration ManualV1.4.pdf》

OTA Command

OTA-9 Firmware upgrade over the FTP server

Send	(8130630001,1,001,OTA,9,1,222.252.17.214,10021,test1,Ab123456,JT701_19.bin,101764,9			
Command	585478)			
Function	Firmware upgrade over the FTP server			
Description	Note:			
	Clients need to deploy a ftp server, and get the FTP OTA file and its , total bytes and checksum-			
	code of this OTA file from Jointech sales.			



	This command was added in firmware version 20211019 and later.				
Command	1,222.252.17.214,10021,test1,Ab123456,JT701_19.bin,101764,9585478				
Parameter					
Command	1 Operation mode.				
Parameters	1 Set;				
Description	0 Query;				
	2 Cancel upgrading;				
	222.252.17.214 means FTP server IP address				
	10021 means FTP server TCP port				
	test1 means FTP server login username:				
	Ab123456 means FTP server login password				
	JT701_19.bin means FTP OTA filename				
	101764 means total bytes of this FTP OTA file				
	9585478 means total checksum of each byte in this FTP OTA file. It's decimal value.				
Response	(8130630001,1,001,OTA,9,222.252.17.214,10021,test1,Ab123456,JT701_19.bin,101764,958				
command	5478, <mark>0</mark>)				
Response	222.252.17.214,10021,test1,Ab123456,JT701_19.bin,101764,9585478 Same as Command				
command	parameters description				
Description	0 indicates operation successful				
	1 means device is in upgrading processing				
	2. The device is being upgraded. After the upgrade is completed (success/failure), the				
	FTP upgrade is finished				
	3. FTP failed to start, no upgrade under low power				
	4. Busy, other upgrades are being performed				
Command	■GPRS ■SMS ■UART ■USBHID				
Channel	ECTIVE ECIVIC ECULIE				

Customized command

P09 Configure indicator LED's display

Send	
Command	
Function	Customized firmware function
Description	detail is not presented in this document.
Command	
Parameter	
Command	
Parameters	
Description	



Response				
command				
Response				
command				
Description				
Command	ODDO	0140	LIADT	HODHID
Channel	■GPR5	■SIVIS	■UART	■USBHID

Attached table: List of ASCII commands

Command word /Link	Function Description
<u>P01</u>	Query current firmware version and remainning battery level.
P02	Query the current location of the device and the device status information, and
<u>P02</u>	the short message content will be sent to the VIP mobile phone number.
P03	Query and configure the percentage of battery level which the device enters
100	deep sleep mode.
P04	Query and set the data upload time interval after the device wakes up, and the
104	RTC timing wake-up interval
P06,0/P06,1	Query and configure main IP1(domain)/TCP port and APN, APN account related
1 00,0/1 00,1	to SIM1 card slot
P06,2/P06,3	Query and configure secondary IP2, TCP port, and APN, APN account
1 00,2/1 00,0	corresponds to SIM2 card slot.
<u>P10</u>	Query and Set the time difference in the SMS alarm content of the device
P11	Query and configure VIP phone numbers, This number is used to receive the
1.11	sent SMS command reply message, as well as the SMS alarm message
<u>P12</u>	Query and Set VIP phone number to receive SMS alarm
P13	The device will restore all parameters except the IP address, port, VIP number,
	APN and APN account, password to the factory default settings
<u>P14</u>	Query the IMEI number of the 2G/3G/4G communication module
<u>P15</u>	Restart the device remotely
P19	Obtain positioning data and unlock & lock report from serial port.
<u>1 10</u>	Customized function, detail is not presented in this document.
P22	User can use this command to synchronize the device's GPS time to the current
	UTC time
<u>P23</u>	Query and Set SMS and phone wake-up function
<u>P24</u>	Query and set Geofence function and corresponding geofence name
<u>P29</u>	Query and configure the entry and exit fence node information
<u>P30</u>	Delete the fence nodes of the fence ID
<u>P31</u>	Notify the device that the fence node of the fence ID is configured
<u>P32</u>	Force the device to enter sleep mode
<u>P36</u>	Query and set vibration alarm threshold
<u>P37</u>	Query and configure device vibration detection sensitivity



whether to send GPRS alarm data, whether to send SMS alarm information. P41 Query, add, delete certain RFID card numbers, delete all RFID authorization cards P42 Enable and disable the on-site registration function of RFID authorization cards P43 Remotely unlock the device by static password P44 Modify static password P45 When the device is locked or unlocked, the lock or unlock report will be generated immediately P50 Enable and disable the power switch of the device mainboard P52.0 Query the current dynamic unlocking password P52.1 Query and Set the dynamic password unlock function P52.2 Platform response to dynamic password report P52.3 Remote dynamic password to unlock the device P54 Query and configure tracking mode Query and configure the geofence associated with authorized RFID card P59 Query and Set unlock channel P61 Query and set low battery alarm threshold P62 Query and set GPS static drift optimization function P63 Query and Set device alias P67 Query and Set the password verification function of configuration parameters P68 Query and Set the password verification function of configuration parameters P69 P1atform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device P91 Shutdown device remotely(force the device enter into deep sleep warehousing mode) Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set PA5 unlock&lock report-extended field report Query and set Cornering Report Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report		
Query and set the switch of GPRS/SMS alarm. The device can be configured whether to send GPRS alarm data, whether to send SMS alarm information. P41 Query, add, delete certain RFID card numbers, delete all RFID authorization cards P42 Enable and disable the on-site registration function of RFID authorization cards P43 Remotely unlock the device by static password P44 Modify static password P45 When the device is locked or unlocked, the lock or unlock report will be generated immediately P50 Enable and disable the power switch of the device mainboard P52.0 Query the current dynamic unlocking password P52.1 Query and Set the dynamic password unlock function P52.2 Platform response to dynamic password report P52.3 Remote dynamic password to unlock the device P54 Query and configure tracking mode P58 Query and configure the geofence associated with authorized RFID card P59 Query and Set unlock channel P61 Query and set low battery alarm threshold P62 Query and set low battery alarm threshold P63 Query and set GPS static drift optimization function P65 Query and Set device alias P67 Query and Set the password verification function of configuration parameters P68 Query and Set the password verification function of configuration parameters P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P63 Query and set the automatic locking time of the device P91 Shutdown device remotely(force the device enter into deep sleep warehousing mode) P92 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set RNS module power saving mode P99 Query and set RNS module power saving mode P99 Query and set RNS module power saving mode P99 Query and set the working network of the cellular module View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module	<u>P38</u>	query and set long-time unlocking alarm
whether to send GPRS alarm data, whether to send SMS alarm information. P41	<u>P39</u>	Query and Set Working time after the device wakes up
whether to send GP-RS alarm data, whether to send SMS alarm information. Query, add, delete certain RFID card numbers, delete all RFID authorization cards P42 Enable and disable the on-site registration function of RFID authorization cards P43 Remotely unlock the device by static password P44 Modify static password P45 When the device is locked or unlocked, the lock or unlock report will be generated immediately P50 Enable and disable the power switch of the device mainboard P52.0 Query the current dynamic unlocking password P52.1 Query and Set the dynamic password unlock function P52.2 Platform response to dynamic password unlock function P52.3 Remote dynamic password to unlock the device P54 Query and configure tracking mode P55 Query and configure tracking mode P58 Query and set unlock channel P61 Query and set low battery alarm threshold P62 Query and set low battery alarm threshold P63 Query and set GPS static drift optimization function P65 Query and set device alias P67 Query and Set the password verification function of configuration parameters P68 Query and Set the password verification function of configuration parameters P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P63 Query and set the automatic locking time of the device P91 Shutdown device remotely(force the device enter into deep sleep warehousing mode) P92 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set GNSS module power saving mode P99 Query and set GNSS module power saving mode P99 Query and set GNSS module power saving mode P99 Query and set GNSS module power saving mode P99 Query and set GNSS module power saving mode P99 Query and set the working network of the cellular module P105 View 2C/4G JT701D communication module AT commands flow or GPS-NMEA data P105 P14fform response command to peripheral	D40	Query and set the switch of GPRS/SMS alarm. The device can be configured
P41 cards P42 Enable and disable the on-site registration function of RFID authorization cards P43 Remotely unlock the device by static password P44 Modify static password P45 When the device is locked or unlocked, the lock or unlock report will be generated immediately P50 Enable and disable the power switch of the device mainboard P52.0 Query the current dynamic unlocking password P52.1 Query and Set the dynamic password unlock function P52.2 Platform response to dynamic password report P52.3 Remote dynamic password to unlock the device P54 Query and configure tracking mode P55 Query and configure tracking mode P59 Query and Set unlock channel P61 Query and set low battery alarm threshold P62 Query and set flow battery alarm threshold P63 Query and set flow battery alarm threshold P64 Query and set flow battery alarm threshold P65 Query and Set device alias P67 Query and Set the password verification function of configuration parameters P68 Query and Set the password verification function of configuration parameters P68 Query and Set the password verification function of configuration parameters P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device P91 Shutdown device remotely(force the device enter into deep sleep warehousing mode) P92 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set GNSS module power saving mode P99 Query and set GNSS module power saving mode P99 Query and set GNSS module power saving mode P99 Query and set GNSS module power saving mode P99 Query and set Cornering Report P98.6 View 2C/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module	<u>P40</u>	whether to send GPRS alarm data, whether to send SMS alarm information.
P42 Enable and disable the on-site registration function of RFID authorization cards P43 Remotely unlock the device by static password P44 Modify static password P45 When the device is locked or unlocked, the lock or unlock report will be generated immediately P50 Enable and disable the power switch of the device mainboard P52.0 Query the current dynamic unlocking password P52.1 Query and Set the dynamic password unlock function P52.2 Platform response to dynamic password unlock function P52.3 Remote dynamic password to unlock the device P54 Query and configure tracking mode P58 Query and configure tracking mode P59 Query and set low battery alarm threshold P61 Query and set low battery alarm threshold P62 Query and set GPS static drift optimization function P63 Query and set GPS static drift optimization function P65 Query and Set device alias P67 Query and Set the password verification function of configuration parameters P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P63 Query and set the automatic locking time of the device P64 Query and set the automatic locking time of the device P65 Query and set the automatic locking time of the device P66 P1 Query and set the automatic locking time of the device P67 Query and set the automatic locking time of the device P68 Query and set the time interval for position data reporting when the device is unlocked or locked P69 Query and set P45 unlock&lock report-extended field report P69 Query and set GNSS module power saving mode P69 Query and set Cornering Report P69 Query and set Cornering Report P69 Query and set Cornering Report P69 Query and set the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report P69 View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P60 Query and set the working network of the cellular module	D/1	Query, add, delete certain RFID card numbers, delete all RFID authorization
P43 Remotely unlock the device by static password P44 Modify static password When the device is locked or unlocked, the lock or unlock report will be generated immediately P50 Enable and disable the power switch of the device mainboard P52.0 Query the current dynamic unlocking password P52.1 Query and Set the dynamic password unlock function P52.2 Platform response to dynamic password report P52.3 Remote dynamic password to unlock the device P54 Query and configure tracking mode P58 Query and configure the geofence associated with authorized RFID card P59 Query and Set unlock channel P61 Query and set low battery alarm threshold P62 Query and set GPS static drift optimization function P65 Query and Set device alias P67 Query and Set device alias P67 Query and Set device alias P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device Shutdown device remotely(force the device enter into deep sleep warehousing mode) P92 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set GNSS module power saving mode P99 Query and set Cornering Report P98.10 Query and set Cornering Report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module	<u>P41</u>	cards
P44 Modify static password P45 When the device is locked or unlocked, the lock or unlock report will be generated immediately P50 Enable and disable the power switch of the device mainboard P52.0 Query the current dynamic unlocking password P52.1 Query and Set the dynamic password unlock function P52.2 Platform response to dynamic password report P52.3 Remote dynamic password to unlock the device P54 Query and configure tracking mode P58 Query and configure tracking mode P59 Query and Set unlock channel P61 Query and set low battery alarm threshold P62 Query and set low battery alarm threshold P63 Query and Set device alias P66 Query and Set device alias P67 Query and Set the password verification function of configuration parameters P68 Query and Set the password verification function of configuration parameters P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device P94 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set the time interval for position data reporting when the device is unlocked or locked P97 Query and set GNSS module power saving mode P99 Query and set GNSS module power saving mode P99 Query and set GNSS module power saving mode P99 Query and set GNSS module power saving mode P99 Query and set Cornering Report Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module	<u>P42</u>	Enable and disable the on-site registration function of RFID authorization cards
When the device is locked or unlocked, the lock or unlock report will be generated immediately P50 Enable and disable the power switch of the device mainboard P52.0 Query the current dynamic unlocking password P52.1 Query and Set the dynamic password unlock function P52.2 Platform response to dynamic password report P52.3 Remote dynamic password to unlock the device P54 Query and configure tracking mode P58 Query and configure the geofence associated with authorized RFID card P59 Query and Set unlock channel P61 Query and set low battery alarm threshold P62 Query and set low battery alarm threshold P63 Query and set GPS static drift optimization function P65 Query and set device alias P67 Query and Set the password verification function of configuration parameters P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device Shutdown device remotely(force the device enter into deep sleep warehousing mode) P91 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set GNSS module power saving mode P99 Query and set Cornering Report P97 Query and set Cornering Report P98.6 Query and set Cornering Report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module	<u>P43</u>	Remotely unlock the device by static password
immediately P50 Enable and disable the power switch of the device mainboard P52.0 Query the current dynamic unlocking password P52.1 Query and Set the dynamic password unlock function P52.2 Platform response to dynamic password unlock function P52.3 Remote dynamic password to unlock the device P54 Query and configure tracking mode P58 Query and configure tracking mode P59 Query and set unlock channel P61 Query and set low battery alarm threshold P62 Query and configure the initial mileage and mileage statistics speed threshold P63 Query and set GPS static drift optimization function P65 Query and set device alias P67 Query and Set the password verification function of configuration parameters P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device P91 Shutdown device remotely(force the device enter into deep sleep warehousing mode) P92 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report P98.6 Query and set Cornering Report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module	<u>P44</u>	Modify static password
Enable and disable the power switch of the device mainboard P52_0 Query the current dynamic unlocking password P52_1 Query and Set the dynamic password unlock function P52_2 Platform response to dynamic password report P52_3 Remote dynamic password to unlock the device P54 Query and configure tracking mode P58 Query and configure tracking mode P59 Query and Set unlock channel P61 Query and set low battery alarm threshold P62 Query and set ob thattery alarm threshold P63 Query and set GPS static drift optimization function P65 Query and Set device alias P67 Query and Set device alias P68 Query and Set device alias P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device P91 Query and set the time interval for position data reporting when the device is unlocked or locked P92 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report P98.10 Query and set Cornering Report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module	D45	When the device is locked or unlocked, the lock or unlock report will be generated
P52.0 Query the current dynamic unlocking password P52.1 Query and Set the dynamic password unlock function P52.2 Platform response to dynamic password report P52.3 Remote dynamic password to unlock the device P54 Query and configure tracking mode P58 Query and configure the geofence associated with authorized RFID card P59 Query and Set unlock channel P61 Query and set low battery alarm threshold P62 Query and configure the initial mileage and mileage statistics speed threshold P63 Query and set GPS static drift optimization function P65 Query and Set device alias P67 Query and Set the password verification function of configuration parameters P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device P91 Shutdown device remotely(force the device enter into deep sleep warehousing mode) P92 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set GNSS module power saving mode P99 Query and set Cornering Report P99 Query and set Cornering Report P98.0 Query and set Cornering Report Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module	<u>F45</u>	immediately
P52.1 Query and Set the dynamic password unlock function P52.2 Platform response to dynamic password report P52.3 Remote dynamic password to unlock the device P54 Query and configure tracking mode P58 Query and configure the geofence associated with authorized RFID card P59 Query and Set unlock channel P61 Query and set low battery alarm threshold P62 Query and set low battery alarm threshold P63 Query and set GPS static drift optimization function P65 Query and Set device alias P67 Query and Set the password verification function of configuration parameters P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device P91 Shutdown device remotely(force the device enter into deep sleep warehousing mode) P92 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set GNSS module power saving mode P99 Query and set Cornering Report P97 Query and set Cornering Report P98.6 Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module	<u>P50</u>	Enable and disable the power switch of the device mainboard
P52.2 Platform response to dynamic password report P52.3 Remote dynamic password to unlock the device P54 Query and configure tracking mode P58 Query and configure the geofence associated with authorized RFID card P59 Query and Set unlock channel P61 Query and set low battery alarm threshold P62 Query and set GPS static drift optimization function P63 Query and set GPS static drift optimization function P65 Query and Set the password verification function of configuration parameters P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device P91 Shutdown device remotely(force the device enter into deep sleep warehousing mode) P92 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set GNSS module power saving mode P99 Query and set Cornering Report P99 Query and set Cornering Report P98.10 Query and set Cornering Report P98.6 View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET,9 Platform response command to peripheral	<u>P52,0</u>	Query the current dynamic unlocking password
P52.3 Remote dynamic password to unlock the device P54 Query and configure tracking mode P58 Query and configure the geofence associated with authorized RFID card P59 Query and Set unlock channel P61 Query and set low battery alarm threshold P62 Query and configure the initial mileage and mileage statistics speed threshold P63 Query and set GPS static drift optimization function P65 Query and Set device alias P67 Query and Set the password verification function of configuration parameters P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device P91 Shutdown device remotely(force the device enter into deep sleep warehousing mode) P92 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P98.10 Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module	<u>P52,1</u>	Query and Set the dynamic password unlock function
P54 Query and configure tracking mode P58 Query and configure the geofence associated with authorized RFID card P59 Query and Set unlock channel P61 Query and set low battery alarm threshold P62 Query and configure the initial mileage and mileage statistics speed threshold P63 Query and set GPS static drift optimization function P65 Query and Set device alias P67 Query and Set the password verification function of configuration parameters P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device Shutdown device remotely(force the device enter into deep sleep warehousing mode) P92 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report P98.10 Query and set Cornering Report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET.9 Platform response command to peripheral	<u>P52,2</u>	Platform response to dynamic password report
P58 Query and configure the geofence associated with authorized RFID card P59 Query and Set unlock channel P61 Query and set low battery alarm threshold P62 Query and configure the initial mileage and mileage statistics speed threshold P63 Query and set GPS static drift optimization function P65 Query and Set device alias P67 Query and Set the password verification function of configuration parameters P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device Shutdown device remotely(force the device enter into deep sleep warehousing mode) P92 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report Query and set Cornering Report Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module	<u>P52,3</u>	Remote dynamic password to unlock the device
P59 Query and Set unlock channel P61 Query and set low battery alarm threshold P62 Query and configure the initial mileage and mileage statistics speed threshold P63 Query and set GPS static drift optimization function P65 Query and Set device alias P67 Query and Set the password verification function of configuration parameters P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device Shutdown device remotely(force the device enter into deep sleep warehousing mode) P92 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report P98.10 Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report P98.6 View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module	<u>P54</u>	Query and configure tracking mode
P61 Query and set low battery alarm threshold P62 Query and configure the initial mileage and mileage statistics speed threshold P63 Query and set GPS static drift optimization function P65 Query and Set device alias P67 Query and Set the password verification function of configuration parameters P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device Shutdown device remotely(force the device enter into deep sleep warehousing mode) P92 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report P98,10 Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET,9 Platform response command to peripheral	<u>P58</u>	Query and configure the geofence associated with authorized RFID card
P62 Query and configure the initial mileage and mileage statistics speed threshold P63 Query and set GPS static drift optimization function P65 Query and Set device alias P67 Query and Set the password verification function of configuration parameters P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device Shutdown device remotely(force the device enter into deep sleep warehousing mode) P91 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET.9 Platform response command to peripheral	<u>P59</u>	Query and Set unlock channel
P63 Query and set GPS static drift optimization function P65 Query and Set device alias P67 Query and Set the password verification function of configuration parameters P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device Shutdown device remotely(force the device enter into deep sleep warehousing mode) P91 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report P98.10 Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET.9 Platform response command to peripheral	<u>P61</u>	Query and set low battery alarm threshold
P65 Query and Set device alias P67 Query and Set the password verification function of configuration parameters P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device Shutdown device remotely(force the device enter into deep sleep warehousing mode) P91 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report Query and set Cornering Report P98.10 Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET,9 Platform response command to peripheral	<u>P62</u>	Query and configure the initial mileage and mileage statistics speed threshold
P67 Query and Set the password verification function of configuration parameters P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device Shutdown device remotely(force the device enter into deep sleep warehousing mode) P91 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report Query and set Cornering Report P98.10 Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET,9 Platform response command to peripheral	<u>P63</u>	Query and set GPS static drift optimization function
P68 Query the IMSI and ICCID of the SIM card P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device Shutdown device remotely(force the device enter into deep sleep warehousing mode) P91 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report P98,10 Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET,9 Platform response command to peripheral	<u>P65</u>	Query and Set device alias
P69 Platform general response command P70 Enable and Disable non-VIP number wake-up device function P83 Query and set the automatic locking time of the device P91 Shutdown device remotely(force the device enter into deep sleep warehousing mode) P92 Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report P98.10 Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module Platform response command to peripheral	<u>P67</u>	Query and Set the password verification function of configuration parameters
Enable and Disable non-VIP number wake-up device function Query and set the automatic locking time of the device Shutdown device remotely(force the device enter into deep sleep warehousing mode) Query and set the time interval for position data reporting when the device is unlocked or locked Query and set P45 unlock&lock report-extended field report Query and set GNSS module power saving mode Query and set Cornering Report Query and set Cornering Report Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET,9 Platform response command to peripheral	<u>P68</u>	Query the IMSI and ICCID of the SIM card
P91 Query and set the automatic locking time of the device Shutdown device remotely(force the device enter into deep sleep warehousing mode) Query and set the time interval for position data reporting when the device is unlocked or locked Query and set P45 unlock&lock report-extended field report Query and set GNSS module power saving mode Query and set Cornering Report Query and set Cornering Report Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET,9 Platform response command to peripheral	<u>P69</u>	Platform general response command
Shutdown device remotely(force the device enter into deep sleep warehousing mode) P92 Query and set the time interval for position data reporting when the device is unlocked or locked Query and set P45 unlock&lock report-extended field report Query and set GNSS module power saving mode Query and set Cornering Report Query and set Cornering Report Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module Platform response command to peripheral	<u>P70</u>	Enable and Disable non-VIP number wake-up device function
mode) P92	<u>P83</u>	Query and set the automatic locking time of the device
Query and set the time interval for position data reporting when the device is unlocked or locked P94 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report Query and set Cornering Report Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET,9 Platform response command to peripheral	D01	Shutdown device remotely(force the device enter into deep sleep warehousing
unlocked or locked P94 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET,9 Platform response command to peripheral	<u>F91</u>	mode)
P94 Query and set P45 unlock&lock report-extended field report P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET,9 Platform response command to peripheral	D02	Query and set the time interval for position data reporting when the device is
P97 Query and set GNSS module power saving mode P99 Query and set Cornering Report Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET,9 Platform response command to peripheral	<u>F 32</u>	unlocked or locked
P98,10 Query and set Cornering Report Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET,9 Platform response command to peripheral	<u>P94</u>	Query and set P45 unlock&lock report-extended field report
Query the number of cached data items in the FLASH of the JT701D device, the cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET,9 Platform response command to peripheral	<u>P97</u>	Query and set GNSS module power saving mode
cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data P105 Query and set the working network of the cellular module WLNET,9 Platform response command to peripheral	<u>P99</u>	Query and set Cornering Report
P98,6 P105 Query and set the working network of the cellular module WLNET,9 Cached data includes position data, alarm data, and P45 unlock & lock report View 2G/4G JT701D communication module AT commands flow or GPS-NMEA data Query and set the working network of the cellular module Platform response command to peripheral	D08 10	Query the number of cached data items in the FLASH of the JT701D device, the
Pas,6 data	<u>F90, 10</u>	cached data includes position data, alarm data, and P45 unlock & lock report
P105 Query and set the working network of the cellular module WLNET,9 Platform response command to peripheral	DOS 6	View 2G/4G JT701D communication module AT commands flow or GPS-NMEA
WLNET,9 Platform response command to peripheral	<u>r 30,0</u>	data
	<u>P105</u>	Query and set the working network of the cellular module
OTA-9 Firmware upgrade over the FTP server	WLNET,9	Platform response command to peripheral
	<u>OTA-9</u>	Firmware upgrade over the FTP server