Shenzhen Jimi IoT Co., Ltd.

PL601 Command List

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Change History

Version	Date	Editor(s)	Firmware Version	Remarks
V1.0	2024/12/18	Qi Qin		Initial release
V1.1	2025/02/11	Qi Qin		Added the `LS/TTS/CALLVOL/` `RINGVOL/SHUTDOWN/WN` and `SV` commands
V1.2	2025/04/03	Qi Qin	P6401_P6401_WEBI_LA _V1.1.1_250318.1228	1. Updated the `CALLVOL` command 2. Added the `FLY` and `LT` commands

Contents

1 Device Management

Description: This set of commands are used to make the device perform management tasks, including configuration, maintenance, and status monitoring.

Included Operations: Server configuration, APN configuration, language setting, WiFi connection, time synchronization, device status query, device reboot, firmware updates, etc.

1.1 Check Device Firmware Version

`VERSION#`

Example(s)

Command	Reply	Remarks
`VERSION#`	`[VERSION]TT73_L341_WAAP_LA_V3.3_210707.1619`	Query current firmware version of the device.

1.2 Check Basic Parameters of Device

`PARAM#`

Example(s)

Command	Reply	Remarks
`PARAM#`	`IMEI:864032050000817;SOS:,,;CENTER:;Time Zone:E,8,0 (AUTO);`	Query current device basic parameters.

1.3 Check Current Status of Device

`STATUS#`

Example(s)

Command	Reply	Remarks
`STATUS#`	`Battery:3.97V,NORMAL; GPRS:Link Up; LTE Signal Level:Strong; GPS:Searching`	Query the current status of device.

Command	Reply	Remarks
	satellite; SVS Used in fix:0(0); GPS Signal Level: ACC:ON; Defense:OFF;	

1.4 Time Zone Settings

GMT,P1,P2,P3#

- Set the correct timezone for the device. When the timestamp of real-time GPS packet is several hours different from your server time, consider checking device time zone.

- Note: Consider if you move East or West from GMT=0 (London) to determine whether to use E or W. For example, if your timezone is 3 hours East of London, you'll be using GMT,E,3,0#.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	East or West of GMT=0	E / W	E
P2	Time zone value	0–12	8
P3	Quarter/half/3 quarters time zone	0 / 15 / 30 / 45	0

Example(s)

Command	Reply	Remarks
GMT,E,8,0#	setting OK.GMT:E,8,0	Setting successful.
GMT#	GMT:E,8,0	Query current setting.

1.5 Restore Default Settings

FACTORY#

This command restores all settings to default except APN/SERVER settings. Takes effect after automatic reboot.

Example(s)

Command	Reply	Remarks
FACTORY#	Restore to default successfully, now will restart to make effect	Reset all settings successful.

1.6 Power-Off Restriction Settings

PWRLIMIT,P1#

Configure whether the SOS button can be used to power off the device.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	SOS button shutdown control	ON = Disable SOS-initiated shutdown OFF = Enable SOS-initiated shutdown (5 short presses)	OFF

Example(s)

Command	Reply	Remarks
PWRLIMIT,ON#	setting OK.Pwrlimit Switch:ON	Power-off restriction enabled.
PWRLIMIT#	Pwrlimit Switch:ON	Query current setting.

1.7 Auto Power-On During Charging

AUTOSTART,P1#

Configure whether the device automatically powers on when a charging source is detected.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Enable or disable auto power-on	ON = Device powers on when charging OFF = Device remains off when charging	ON

Example(s)

Command	Reply	Remarks
AUTOSTART,ON#	setting OK.AUTOSTART:ON	Setting successful.
AUTOSTART#	AUTOSTART:ON	Query current setting.

1.8 Set Communication Mode

JC,P1#

Configure the device's voice communication mode during active calls.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Voice communication mode	0 = Two-way call (speaker and mic active) 1 = One-way listen-in (mic active; speaker muted)	0

Example(s)

Command	Reply	Remarks
JC,0#	setting OK.JC:0	Enable interactive communication.
JC,1#	setting OK.JC:1	Activate stealth monitoring.
JC#	JC:1	Query current setting.

1.9 SOS Number Settings

1.9.1 Add Numbers

SOS,A,No1,No2,No3,No4#

Add the phone numbers that are contacted when the SOS button is activated.

Up to 4 numbers can be stored on the device.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
A	Add action identifier	A (fixed)	
No1–No4	Phone numbers	Digits (0–9), optionally starting with a '+' sign	

Example(s)

Command	Reply	Remarks
SOS,A,18998866419#	setting OK. SOS Number:1:18998866419; 2:; 3:; 4:	The first SOS number added successfully.
SOS#	SOS Number:1:18998866419; 2:18998866418; 3:; 4:	Query current setting.

1.9.2 Delete Numbers by Sequence

SOS,D,SN1,SN2,SN3,SN4#

Remove contacts based on their original storage sequence (1 = first added, 4 = last added).

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
D	Delete action identifier	D (fixed)	
SN1–SN4	Sequence positions to delete	1–4	

Example(s)

Command	Reply	Remarks
SOS,D,1,2#	delete successfully. SOS Number:1:; 2:; 3:; 4:	Successfully deteleted the first and second SOS numbers.

1.9.3 Delete Number by Exact Match

SOS,D,No#

Delete an SOS number by exact phone number match.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
D	Delete action identifier	D (fixed)	
No	Full phone number to delete	Digits (0–9), optionally starting with a '+' sign	

Example(s)

Command	Reply	Remarks
SOS,D,18998866418#	delete successfully. SOS Number:1:18998866419; 2:; 3:; 4:	Successfully deleted the SOS number "18998866419".

1.10 Whitelist Settings

1.10.1 Add Numbers

WN,A,No1,No2,No3,No4,…,No15#

Up to 15 phone numbers can be stored in the whitelist.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
A	Add action identifier	A (fixed)	
No1–No15	Phone numbers	Digits (0–9), optionally starting with a '+' sign	

Example(s)

Command	Reply	Remarks
WN,A,1899886641 9,18998866418#	setting OK. white list number:1:18998866419; 2:18998866418; 3:; 4:; 5:; 6:; 7:; 8:; 9:; 10:; 11:; 12:; 13:; 14:; 15:	Setting successfully.
WN#	white list number:1:18998866419; 2:18998866418; 3:; 4:; 5:; 6:; 7:; 8:; 9:; 10:; 11:; 12:; 13:; 14:; 15:	Query current setting.

1.10.2 Delete Numbers by Sequence

WN,D,SN1,SN2,SN3,SN4,…,SN15#

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
D	Delete action identifier	D (fixed)	
SN1–SN15	Sequence positions to delete	1–15	

Example(s)

Command	Reply	Remarks
WN,D,2#	delete successfully. white list number:1:18998866419; 2:; 3:; 4:; 5:; 6:; 7:; 8:; 9:; 10:; 11:; 12:; 13:; 14:; 15:	Successfully deleted the second whitelist number.

1.10.3 Delete Number by Exact Match

WN,D,No#

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
D	Delete action identifier	D (fixed)	
No	Full phone number to delete	Digits (0–9), optionally starting with a '+' sign	

Example(s)

Command	Reply	Remarks

`WN,D,18998866418#`	`delete successfully.`
	`white list number:1:18998866419;`
	`2:; 3:; 4:; 5:; 6:; 7:; 8:; 9:;`
	`10:; 11:; 12:; 13:; 14:; 15:`
		Successfully deleted the whitelist number "18998866418".

1.11 Voice Status Reporting Setting

`TTS,P1,P2#`

Enable/disable audible voice announcements for key device status updates.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Enable or disable voice reporting	ON / OFF	OFF
P2	Status type to report	1 = Battery level 2 = Current time 3 = Cellular/GPS connectivity 4 = All statuses (battery + time + connectivity)	

Example(s)

Command	Reply	Remarks
`TTS,ON,1#`	`setting OK.TTS:ON,1`	Setting successful.
`TTS#`	`TTS:ON,1`	Query current setting.

1.12 Call Volume Setting

`CALLVOL,P1#`

Set the call volume for the device.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Volume level	1–7	5

Example(s)

Command	Reply	Remarks
`CALLVOL,4#`	`setting OK.call volume:4`	Set the call volume to 4.
`CALLVOL#`	`call volume:5`	Query current setting.

1.13 Ringtone Volume Setting

`RINGVOL,P1#`

Set the ringtone volume for the device.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Volume level	1–7	4

Example(s)

Command	Reply	Remarks
`RINGVOL,3#`	`setting OK.ring volume:3`	Set the ringtone volume to 3.
`RINGVOL#`	`ring volume:4`	Query current setting.

1.14 Power On/Off Behavior Settings

LS,P1#

Configure visual/audible indicators during device power cycles.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Power cycle indication	0 = Flashing LED + Audible alert 1 = Flashing LED only 2 = Silent (no light or sound)	0

Example(s)

Command	Reply	Remarks
LS,1#	setting OK.LS:1	Setting successful.
LS#	LS:0	Query current setting.

2 Network Settings

2.1 Check Current Network Setting

GPRSSET#

Example(s)

Command	Reply	Remarks
GPRSSET#	GPRS,ON;Currently use APN:UNINET,,;APN Auto set:ON;SERVER,1,gpsdev.tracksolidpro.com,21 102;URL,http://maps.google.com/maps?q=	Query current device basic parameters.

2.2 Manually Set APN of SIM Card

APN,P1# OR APN,P1,P2,P3#

- Manually set the correct APN and password for the SIM card.

- P2 & P3 parameters are optional. If not used, simply don't include anything after the APN name.

- The command takes effect after device reboot. If the APN has been changed, the device will reset automatically.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	APN name (operator specified)		
P2	User name of the APN (if applicable)		
P3	Password of the APN (if applicable)		

Dependency

- When ASETAPN command is turned on, APN set by command APN,P1,P2,P3# may be overridden.

- When APN is manually set by APN,P1,P2,P3#, ASETAPN feature will be turned off.

Example(s)

Command	Reply	Remarks
`APN,cmnet#`	`setting` `OK.APN:cmnet,Username:,Password:`	Setting successful.
`APN#`	`APN:cmnet,Username:,Password:`	Query current setting

2.3 Server Settings

`SERVER,P1,P2,P3#`

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Server address format	0 = IP address 1 = Domain address	
P2	IP address / Domain name		
P3	Server port		

Example(s)

Command	Reply	Remarks

`SERVER,1,gpsdev.tracksolidpro,21102#`	`setting`
	`OK.GPRS:ON,APN:cmnet,1;Server:TCP,`
	`gpsdev.tracksolidpro.com,21102;AGP`
	`S:47.107.16.108,12283`
		Setting server with domain name.

`SERVER,0,47.89.58.215,21102#`	`setting`
	`OK.GPRS:ON,APN:cmnet,1;Server:TCP,`
	`47.89.58.215,21102;AGPS:47.107.16.`
	`108,12283`
		Setting server with IP address and TCP protocol.

`SERVER#`	`GPRS:ON,APN:cmnet,1;Server:TCP,gps`
	`dev.tracksolidpro.com,21102;AGPS:4`
	`7.107.16.108,12283`
		Query current setting.

3 Location Tracking

Description: This set of commands is related to the device's positioning and tracking capabilities.

Included Operations: Live location acquisition, geofence setup, location data upload mode configuration, initial mileage setup, etc.

3.1 Timing Mode Settings

MODE,1,P1,P2,P3,P4#

This command configures scheduled location updates regardless of motion.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1 (required)	Reporting interval	10–86400 (seconds)	
P2	GNSS positioning	0 = Disable 1 = Enable	1
P3	WiFi positioning	0 = Disable 1 = Enable	1
P4	Cellular triangulation (LBS)	0 = Disable 1 = Enable	1

Example(s)

Command	Reply	Remarks
MODE,1,1800,1,1,1#	setting OK.Mode:1,1800,1,1,1	Setting successful. The device will update its location every 30 minutes.
MODE#	Mode:1,1800,1,1,1	Query current setting.

3.2 Intelligent Mode Settings

MODE,2,P1,P2,P3,P4,P5,P6#

The device adjusts its reporting interval based on real-time motion detection.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Reporting interval (moving)	10–3600 (seconds)	60
P2	Reporting interval (stationary)	0 = Disable 180–66400 (seconds)	1800
P3	GNSS positioning	0 = Disable (invalid) 1 = Enable	1
P4	WiFi positioning	0 = Disable 1 = Enable	1
P5	Cellular triangulation (LBS)	0 = Disable 1 = Enable	1
P6	Cellular data (GPRS/LTE)	0 = Sleep when idle 1 = Always active	1

Example(s)

Command	Reply	Remarks
MODE,2,120,0,1,1,1,1#	setting OK.Mode:2,120,0,1,1,1,1	Settings successful. The device will update its location every 2 minutes when moving.
MODE#	Mode:2,120,0,1,1,1,1	Query current setting.

3.3 GNSS Power-Saving Mode

SV,P1,P2,P3,P4,P5#

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Enable or disable power-saving mode	ON / OFF	OFF
P2	Single satellite timeout	5–300 (seconds)	25
P3	Triple satellite timeout	5–300 (seconds)	35
P4	Active positioning duration	5–300 (seconds)	60
P5	GNSS sleep duration	5–1800 (seconds)	300

Example(s)

Command	Reply	Remarks
SV,ON,25,35,50,300#	setting OK.save mode:ON T1:25sec T2:35sec T3:50sec T4:300sec	Setting successful.
SV#	save mode:ON T1:25sec T2:35sec T3:50sec T4:300sec	Query current setting

3.4 Query Google Maps Link for Current Position

POSITION#

Example(s)

Command	Reply	Remarks
POSITION#	<04-23 10:50>http://maps.google.com/maps?q=N29.670288,E106.491585	Query for google maps link of current position

3.5 Real-Time Tracking

`LT,P1,P2,P3,P4,P5,P6#`

Note: An SOS alert automatically engages a predefined real-time tracking session (typically 10-second interval for 2 minutes, including all data types), regardless of the current `LT` or `MODE` settings.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Enable or disable real-time tracking	ON / OFF	
P2	Upload interval	1–18000 (seconds)	10
P3	Max. tracking duration	10–18000 (seconds)	120
P4	Include GNSS data	0 = Disable 1 = Enable	1
P5	Include WiFi data	0 = Disable 1 = Enable	1
P6	Include LBS data	0 = Disable 1 = Enable	1

Example(s)

Command	Reply	Remarks
`LT,ON,10,120,1,1,1#`	`setting OK.LT:ON,10,120,1,1,1`	Enable real-time location data upload.
`LT#`	`LT:OFF,10,120,1,1,1`	Query current setting.

4 Media Control

Description: This set of commands are used to control the device's audio and video recording functions.

Included Operations: Start/stop recording, set watermarks, configure photo/video resolution, etc.

4.1 One-Time Audio Recording

`LY,P1#`

This command activates the device to record for the given duration.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Recording duration	10–300 (seconds)	60

Example(s)

Command	Reply	Remarks
LY,30#	setting OK.lyInfo--status:0 record:cnt:0 last_time:30 type:3 ly_default_time:0 cxly_default_time:30 is_continuous:0 time:30	Setting successful. The device records a 30s audio clip upon command receipt.

4.2 Continuous Audio Recording

`CXLY,P1,P2#`

Once enabled, the device will keep recording and uploading until a disable command is received. The time length of each upload audio file (.amr) is specified by P2.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Turn on or off continuous recording	ON / OFF	OFF

Parameter	Meaning	Value Range/Format	Default
P2	Time length of each audio file	10–120 (seconds)	30

Example(s)

Command	Reply	Remarks
CXLY,ON,10#	setting OK.CXLY:ON,10	Turn on continuous recording.
CXLY,OFF#	setting OK.CXLY:OFF,10	Turn off continuous recording.

5 Alert Function

Description: This set of commands manage how the device responds to and processes specific events.

Included Operations: Configuration of event trigger conditions, voice prompt setup, alert reporting method, etc.

5.1 Low Battery Alarm

`BATALM,P1,P2,P3,P4#`

This command configures whether to send an alarm when the internal battery voltage becomes low, how this alert is delivered, and how the device will behave in the event of an alarm.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Enable or disable feature	ON / OFF	ON
P2	Alert notification method	0 = GPRS only 1 = SMS + GPRS 2 = GPRS + SMS + Call 3 = GPRS + Call	0
P3	LED indicator behavior	0 = No LED activation 1 = Flashes red only (max. 10s) 2 = Red, green, and blue flash alternatively (max. 10s)	2
P4	Audible alert type	0 = Silent 1 = Intermittent beep (max. 5s) 2 = Voice message "Low battery, please charge in time"	1

Example(s)

Command	Reply	Remarks
`BATALM,ON,0,1,2#`	`setting OK.Low Battery Alarm Switch:ON,Report Mode:0,led reminder mode:1,ring reminder mode:2`	Enable low battery alarm.

Command	Reply	Remarks
`BATALM,OFF#`	`setting OK.Low Battery Alarm Switch:OFF,Report Mode:0,led reminder mode:2,ring reminder mode:1`	Disable low battery alarm.
`BATALM#`	`Low Battery Alarm Switch:ON,Report Mode:0,led reminder mode:2,ring reminder mode:1`	Query current setting.

5.2 Voice Alarm

`SODALM,P1,P2,P3,P4,P5#`

Configure alerts triggered by excessive ambient noise level (about 65 decibels).

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Enable or disable feature	ON / OFF	OFF
P2	Post-alarm action	0 = Data upload + Auto-record 1 = Data upload only 2 = Data upload + Remote listen-in	0
P3	Sound threshold duration (continuous noise to trigger alarm)	1–10 (seconds)	2
P4	Alarm cooldown period (minimum interval between alarms)	1–60 (mins)	1
P5	Auto-record duration	10–600 (seconds)	30

Example(s)

Command	Reply	Remarks
`SODALM,ON,3,3,2,60#`	`setting OK.SODALM:ON,0,3,2,60`	Enable voice alarm.
`SODALM#`	`SODALM:OFF,0,3,2,60`	Query current setting.

5.3 SOS Alarm

`SOSALM,P1,P2#`

Configure emergency alert behavior when the SOS button is activated.

Activation Procedure:

1. Trigger SOS Alert: Press and hold the SOS button for ≥3 seconds.

2. Automatic Actions:

    － Immediately activates GNSS positioning (GPS/GLONASS).

    － Executes the notification method defined by P2 to all preset SOS numbers.

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Enable/disable SOS alert	ON / OFF	ON
P2	Alert notification method	0 = GPRS only 1 = SMS + GPRS 2 = GPRS + SMS + Call 3 = GPRS + Call	3

Example(s)

Command	Reply	Remarks
`SOSALM,ON,0,1#`	`setting OK.SOS HelpSwitch:ON,Report Mode:0,1`	Enable SOS alarm.
`SOSALM#`	`SOS HelpSwitch:ON,Report Mode:3,1`	Query current setting.

6 Device Control

Description: This set of commands is used to directly operate and control the device.

Included Operations: Modify device settings, enable/disable functions, execute specific tasks, etc.

6.1 Remote Shutdown

SHUTDOWN#

The device shuts down immediately.

Example(s)

Command	Reply	Remarks
SHUTDOWN#	Shutdown Success	The device shuts down immediately.

6.2 Activate Remote Listen-In

MONITOR#

After sending this command, the device will call you back so you can hear the surroundings of the device. The session continues until you end the call.

Note: Your phone number must be in the preset SOS contact list.

Example(s)

Command	Reply	Remarks
MONITOR#	OK!	Remote listen-in activated.

6.3 Voice Call Monitoring Permission

MONPERMIT,P1#

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Phone call permission	0 = Nobody can call the device 2 = Only SOS numbers can call the device 3 = Any number can call the device	2

Example(s)

Command	Reply	Remarks
MONPERMIT,2#	setting OK.MONPERMIT:2	Only SOS numbers can call the device.
MONPERMIT#	MONPERMIT:2	Query current setting.

6.4 Rest Period Setting

FLY,P1,P2,P3#

Parameter(s)

Parameter	Meaning	Value Range/Format	Default
P1	Enable or disable airplane mode	ON / OFF	OFF
P2	Active period	Format is HH:MM-HH:MM	00:00-07:00
P3	Sleep behavior	1 = Airplane mode 2 = Full shutdown	2

Example(s)

Command	Reply	Remarks
FLY,ON,00:00-07:00,2#	setting OK.FLY:ON,00:00-07:00,2	Setting successful.
FLY#	FLY:OFF,00:00-07:00,2	Query current setting.