

SP4824 User Manual V1.1

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Preface

Thank you for choosing the company's SP4824 GPS tracking products, please carefully read the instructions before operating.

Please check the items in package with packing list, contact with the distributor when you found something leave out.

Disclaimer:

- Read this user manual carefully please. When you start use this product, then you are deemed to have read this user's manual.
- This Product used as assistant tool for Security only, can't prevent all kinds of deliberately theft or malicious damage vehicles. For the safety of your assets, you still need keep necessary vigilance and security awareness after you installed this product. We do not bear responsibility to any loss except product itself. Thanks!

1.Product Introduction



No.		Color	Describe
1	① 4PIN	Red	Power(0-55V)
2		Black	GND
3		White	ACC
4		Yellow	OUT1(IMMOBILIZE)
5	② 5PIN	Blue+white	OUT2
6		Green+white	OUT3
7		Brown	DEF2(-)
8		Grey	SOS
9		Pink	DEF3(-)
10	③ 1PIN	Purple	ADC(0-12V)
11	④ 1PIN	Orange	1WIRE(3PIN connector(Get 5V and GND from RS232))
12	⑤ 2PIN	Red	MIC-
13		Black	MIC+
14	⑥ 2PIN	Red	SPK-
15		Black	SPK+
16	⑦ 4PIN(RS232)	Black	GND
17		Blue	RS232-RX
18		Green	RS232-TX
19		Red	5V-OUT

Note:

- ✓ This product function based on GPRS network; need a SIM card which have GPRS data transmit and SMS functions.

- ✓ SIM card is not include in the packing list, please prepare SIM card before you use this device.
- ✓ Self-define cable can be cut if you do not use it.
- ✓ This product work voltage is (8-36V/DC), lower or higher will make device work improper.

2. Technical Parameters

Name	Parameters
4G	EC200T-AU LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66 LTE-TDD: B40 WCDMA: B1/B2/B4/B5/B8 GSM/EDGE: B2/B3/B5/B8
GPS module	(Zhongke Microelectronics) AT6558R
Color	Black
Working Voltage	8-36V/DC
AVG Working Current	100mA@12V
Back-up Battery	180mAH
Tracker size	137mm×93mm×40mm
Working temperature	-20°C - +85°C
Moisture	5% - 95%
Locate Sensitivity	<10m
Locate time	Hot start(average): ≤1s Cold start(average): <30s
GPS Tracking Sensitivity	-162dbm
Acquisition sensitivity	-148dBm
GPS Frequently	L1,1575.42MHz
LED Indicator	Use Green/blue/red three color LED indicator to show the status of GSM/GPS/power.
Blind area data record	4800

3. Define of LED indicator

LED Color		Status	Status describe
Power status	Red	Light static	Power Normal
		Blinking	Device fault
		LED OFF	Power off/in sleep

GSM status	Yellow	Blinking	Initializing/Finding SIM card
		Light static	Read SIM card/online
		LED OFF	GSM in sleep/GSM fault
GPS status	Blue	Blinking	Finding GPS(not locate)
		Light static	GPS Located
		LED OFF	GPS in sleep/GSM fault

4. Device Install Position

To install this device you need have some necessary knowledge about Car Electronics. So please make sure you have right person to make the first installation.

In the installation process, do not power on device. The following is some problem may facing in the installation process, please note:

There have two kind of way to install the device: Hidden install and Open type install. When install in special-purpose vehicle you can select hidden install, and when install in temporary vehicle you can select Open type install.

- I. To avoid be broken, the install position of the device should be hidden. The suggest positions are:
 - ① Covert within the dalle below the front windshield glass;
 - ② Covert around the front instruments panel (the cover of the instruments should not be metal)
 - ③ Place Under the dalle below the rear windshield glass of the car.
- II. Avoid the positions round emitters, such as reverse sensor, burglar alarm and other vehicle-mounted communication devices.
- III. Use the ribbon or sponge powerful double-sided adhesive to fasten the device.
- IV.** If you choose build-in GSM Antenna and GPS Antenna, please make sure the GPS receiving surface (the side with LED indicator) face to sky and no metal shelter above when install.

Note:

- ✧ If there have metal thermal-protective coating or warm up coating on the windshield glass, the GPS signal will be damped. That may cause the device work abnormal, please change install position.
- ✧ If you want to install the device by Open type, you can paste the Velcro tape on the dalle below the front windshield glass, and then fasten the device on it.

5. Commands list

To make the device work on GPRS mode together the control center software system, we have to set some parameters to make the device know where and how to connect the server.

Note:

- A. All commands are case sensitive, please check carefully before send the command!
- B. **Serial command format:** *269#C
- C. **SMS command format:** AS1234*269#C#
- D. **All command via GPRS(0x3A) the format is same as serial command**

Name	Serial Command	reply	
Enable log	AT%TEST=STOP		Baud rate: 9600
Set IP	*269#1,120.24.225.253,5577,0	59.188.20.77;5577,0;OK	Reply content is "IP" "Port", connection type: 0 UDP 1 TCP
Set ID	*269#2,12007845	12007845;OK	Current "ID"
Set APN	*269#3,CMNET,,,	CMNET,,;OK	APN setting
Set back to factory	*269#F	Reset OK;	
Check IP,ID,APN	*269#C	*U:122.114.126.6,6666,1*A:cmnet,,*N:34231801,M6,N1,60,3600,0,0,R1,Q25,G1,8,Z+0,AT200(EC200-AU_V1.0	CSQ: GSM signal strength; Ms:6 online
Check parameters	*269#R	sp:50,3s dr:0,0 idl:0 mv:500,sleep:0 acc:0 sos:0 df:0,0,0,0,0 power:0	Sp: over speed; dr:fatigue driving; idl: idle; Mv: ACC OFF moving alarm; Sleep: 1 sleep mode on; Acc: 1=ACC ON; SOS: 1= SOS ON; Lock: ACC off lock position; Msg: blind area data; Sleep: sleep mode type
Check version	*269#V	Version:AT200-V1.0@May 18 2019 11:48:33	
Set authorized number	*269#5,X,X,X,X,	X,X,X,X, set ok	Need country code.
Query authorized number	*269#P	8512345678912,,,,;OK	To check the authorized numbers.
Set timezone	*269#I,Ex/Wx,	E:means east; W:means west; X is 0-12.	Example: Set GMT-6: *269#I,W6,

Set ACC on/off upload interval	*269#7,x,y,	x=ACC ON upload interval, y=ACC OFF upload interval;	
Upload by distance	*269#d,x	Unit is meter.	if you enable upload by distance, then distance and time base will work both, which condition matched, then upload position once.
Set mileage	*269#m,x	X is mileage value, Unit is KM.	
Cut-engine	*269#O1,x,	X=1, cut-fuel/ immobilize; X=0, recover fuel	X=1, ENGINE OFF, OK X=0, ENGINE ON, OK Cut/recover fuel by time duration(5times)
Set mileage ratio	*269#L,1,X,	X range: 100-200	AS1234*269#L,1,110,#
Check mileage ratio	*269#L,0		MileageRate:110;OK
Set over speed	*269#OS,x,y,	X=over speed value; Y=duration trigger time, unit is seconds.	
Set Move alarm(ACC OFF)	*269#mv,x	x=move distance, unit is meter(ACC OFF, x>100m)	
Set idle alarm	*269#i,x,y	x is idle speed, y is duration, unit is minute;	IDLE:8,5;OK
Enable position ACK	*269#*M,x	X=1, Open ACK; X=0, close ACK.	IF enable ACK, need platform reply each position data(80/8E/82/A3) with 0x21.
Open/close Sleep mode	*269#I,SX	X=0, close sleep mode; X=1, open sleep mode	Close 3G and GPS module both. When enable this function, device will enter sleep mode

			after ACC off for 5 minutes. and wake up by: ACC on/SOS/DEF alarm trigger.
Set harsh accelerate	*269#a1,X,	Default: Accelerate:14km/h/s	
Set harsh brake	*269#a2,X,	Default: Decelerate:20km/h/s	
Set harsh turning (angle)	*269#a3,X,	X=degree change in seconds.	
Query harsh acc/brake parameters	*269#a		
Query IMEI	*269#T	IMEI:862107047034673	
Unlock position with ACC OFF	*269#*K,x	X=0, lock position; X=1, unlock position.	
Enable pick call by AUTO	*269#A,x	X=0, disable pick up call; X=1, enable pick up call.	
RS232 sensor switch	*269#*6,x	X=1, RFID; X=10, SEN003(default)	
SEN003 sensor configure commands(current HW only can set by SMS) default every 4s query once.			
Set group1 data reporting interval	AS1234*269#>STT,YYYY<#	Unit : Seconds Range : 0 - 65535 Sec (Approx. 18 hours, Ex: 300sec= 012C) 0=disable.	Example: AS1234*269#>STT,012C<#
Query group1 reporting interval	AS1234*269#>STT?<#		

Set group1 data reporting interval	AS1234*269#>STE,YYYY<#	Unit : Seconds Range : 0 - 65535 Sec (Approx. 18 hours, Ex: 300sec= 012C) 0=disable.	
Query group1 reporting interval	AS1234*269#>STE?<#		
Set group1 data reporting interval	AS1234*269#>STI,YYYY<#	Unit : Seconds Range : 0 - 65535 Sec (Approx. 18 hours, Ex: 300sec= 012C) 0=disable.	
Query group1 reporting interval	AS1234*269#>STI?<#		
Set group1 data reporting interval	AS1234*269#>STS,YYYY<#	Unit : Seconds Range : 0 - 65535 Sec (Approx. 18 hours, Ex: 300sec= 012C) 0=disable.	
Query group1 reporting interval	AS1234*269#>STS?<#		
SMS command	“AS1234”+”Serial command”+”#” For example: AS1234*269#C#		

6.Serial Port configuration

Baud rate:9600;
Tool: SSCOM;
Via: USB port.

