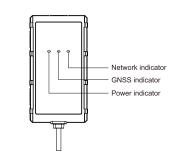
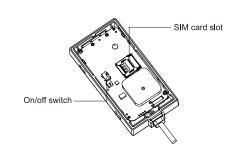
Product overview





Real-time tracking Driving behavior analysis (4 types)

Serial port (optional) Over-speed alert SOS alert Tamper alert Removal alert Power-supply-cut alert Low power alert Vibration alert Geo-fence

Standard Parts List

Item	Quantity
JM-VL03	1
Power cable (Length:1m)	1
Relay	Optional
Panic button	Optional

Specification

Network	4G & 2G	
	JM-VL03E:	
	FDD: B1/B3/B5/B7/B8/B20	
	TDD: B34/B38/B39/B40/B41	
	GSM: 900/1800 MHz	

JM-VL03A: LTE: B1/B3/B7/B8/B28 GSM: 850/900/1800/1900 MHz JM-VL03M: LTE: B2/B4/B5/B7/B12/B13

	GSM: 850/900/1800/1900 MHz
Location accuracy	<10 meters CEP
Relay	Optional
TTFF (open sky)	Avg. hot start≤1sec

Avg. cold start≤32sec Indication GPS (Blue), Cellular (Green), Power (Red) 60mAh, 3,7V Li-Polymer battery Battery

(270mAh/3.7V optional) Operating voltage 9-90VDC Operating temperature -20°C to +70°C Device weight 69g Device dimension 94.3mm*50.4mm*15.0mm

Product Setup

1. Prepare a micro SIM card that supports the same network with this





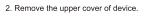


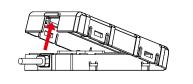
SOS,A,phone number 1,phone



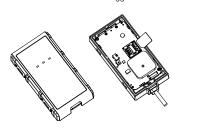








3. Insert SIM card into the slot and toggle the switch to ON.



LED Indication

Power Status (Red)

On for 0.3s and off for 0.3s	Low power
On for 1s and off for 3s	Fu ll y charged
On for 0.1s and off for 3s	Working normally
Solid on	Charging (Higher priority than the status of low power)
Off	Battery is exhausted/Internal failure

GNSS Status (Blue)

On for 0.3s and off for 0.3s	Searching GNSS signal
Solid on	Positioned
Off	GNSS module is in sleep mode or not working

Cellular Status (Green)

On for 0.3s and off for 0.3s	Network initializing
On for 1s and off for 3s	Receiving signal normally
On for 0.1s and off for 3s	Network connected
Solid on	Calling
Off	No signal received/No SIM card detected
-	

SWERVE,ON,M,A,S,T#

Power supply Status (Red, Blue, Green)

Blue and Green on for 3s	Connected/disconnected power
Dide and Green on for 38	supply

Interfaces

6 Pin Standard Version

Interface	Color	Description
V+	Red	Power + (9-90V)
V-	Black	Power - Ground pin
ACC	Orange	Vehicle ignition detection
Relay	Yellow	Cut-off vehicle fuel supply
SOS+	Purple	SOS Trigger Pin
SOS-	White	SOS Ground Pin

6 Pin RS485/TTL Version (Optional)

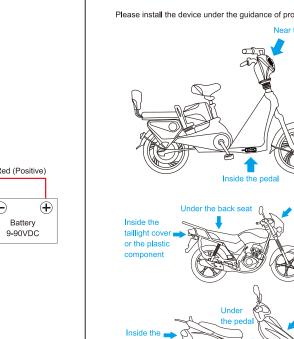
Interface	Color	Description
V+	Red	Power + (9-90V)
V-	Black	Power - Ground Pin
Tx/RS485 A	Blue	TTL Tx or RS485 A
Rx/RS485 B	Green	TTL Rx or RS485 B
SOS+	Purple	SOS Trigger Pin
SOS-	White	SOS Ground Pin

Wiring of Standard Version Tips for finding right wires:

1. Use multimeter to find out the positive and negative sides of vehicle Note: No matter the ignition key is switched to ON or OFF, current battery voltage can be shown in the multimeter. 2. The way to find ACC wire: Connect multimeter's black probe to

negative side, and connect red probe to a random wire, at this

moment, the voltage shown in multimeter is 0V; turn the key to ON, if the supply voltage is shown, that's the correct ACC wire. 3. Connect the two connectors together, if the vehicle has no connector, please connect device's wires to corresponding vehicle



Installation recommendation Please install the device under the guidance of professional personnel.

1. The device should face up to sky.

- 2. Metal thermal barrier or heating layer, which are always installed
- on windshield, may affect the signal, please avoid installing the device under these objects.

Platform & APP

- 1. Login service platform
- Please login the designated service platform to set and operate the
- 2. Download APP
- Please download and install the APP in designated website, APP store or Google Play store.

SMS Commands

VERSION#	Query the firmware version	
STATUS#	Query the status	
PARAM#	Query parameters (IMEI, SOS numbers, center number, and time zone)	
WHERE#	Query the current location	
URL#	Query the location link	URL# Network connected and position fixed: <05-22 10:53> http://maps.google.com/maps? q=N23.111712,E114.409264 Network not connected but positi fixed: <05-2210:53> http://maps.google.com/maps? q=N23.111712,E114.409264

Network not connected and

position not fixed: NO DATA!

GPRSSET#	(GPRS status, APN, server address, URL, etc.)	GPRS,ON;Currently use APN:CMnet,,;APN Auto set:OFF SERVER,1,test.topstargps.com, 11139;URL, http://maps.google.com/maps?q
APN#	Set APN parameters	APN, apnname# OR APN, apnname,user,pwd# Close automatic APN and set by yourself. APN# Check the current APN paramet
SERVER#	Set the parameters of the monitoring server	SERVER,mode,domainName/IF port,protocol# eg:SERVER,1,www.ydpat.com, 8011,0# SERVER,0,211.154.135.113, 8011,0# mode = 1 means set with domai name mode = 0 means set with ip address protocol = 0 means connect sen with TCP protocol

GPRSSET#

protocol = 1 means connect server

Check the current sever parameters

with UDP protocol

SERVER#

SOS#	Set SOS numbers	number 2,phone number 3# Add SOS phone number. SOS,D,sequence number 1, sequence number 2,sequence number 3# Delete the phone number according to the sequence number. SOS,D,phone number# Delete the matching SOS phone number. SOS# Check the SOS phone number.
TIMER#	Set the time interval for the GNSS module to send data	TIMER,T1,T2# T1=5-18000 or 0, upload interval when ACC ON, unit: seconds; 0 means no upload; default is 10; T2=5-18000 or 0, upload interval when ACC OFF,unit: seconds; 0 means no upload; default is 10. TIMER# Check the current parameters of T1 and T2.
RELAY#	Control the power and fuel	RELAY,A# A=0/1;0 means connection, 1 means cut off;default: 0. RELAY# Check the status of the control.

ADT#	parameters to upload voltage values of the external battery	upload,default: Off B=5~3600, Default: 600s; Upload time interval,unit: seconds ADT,OFF# Turn off analog data upload ADT# Query the ADT port parameters
RESET#	The device restarts 20 seconds later after receiving the command.	RESET# The device would reboot in 20S after receiving the command.
SPEEDCHECK#	Set and query the sudden speed change alert	SPEEDCHECK,ON,M,T,A,D# M=0/1,alarm reporting method, 0: only GPRS, 1: GPRS+SMS,default: 0 T=1~30, detection duration, unit: seconds, default: 4 A=10~300(km/h),threshold of Harsh acceleration speed difference, default 30 D=10~300(km/h),difference threshold for sudden brake deceleration speed, default 50 SPEEDCHECK,OFF# Turn off the SPEEDCHECK alarm SPEEDCHECK# Query the SPEEDCHECK port parameters

A=ON/OFF, On/Off ADC data

4. To ensure waterproof take effect, make sure the silicon rubber ring is

5. Press the upper case down and make sure all 5 clips are completely

SWERVE#	Set and query the sharp cornering alert	M=0/1/,alarm reporting method, 0: only GPRS, 1: GPRS+SMS, default: 0 A=10-180(degrees),trigger alarm Angle threshold, default 30 S=10~200(km/h),trigger alarm Speed threshold, default 60 T=1~30 detection duration, unit: seconds, default 3 SWERVE,OFF# Turn off the SWERVE alarm SWERVE# Query the SWERVE port parameters
PULLALM#	Set tamper alert	PULLALM,ON,M,N,T# M=0/1/,alarm reporting method, 0: only GPRS, 1: GPRS+SMS, default: 0 N=1~40, Threshold of mean change unit:0.1g g:acceleration of gravity, default 30 T=2~10 The time interval between power cut-off event (triggered before rollover) and rollover event, unit: seconds, default 5 PULLALM,OFF# Turn off the PULLALM alarm PULLALM# Query the PULLALM port parameters

Unable to

No command

connect Check whether the data service of SIM card is enabled. Check the balance of SIM card.		warranty if this information has been removed or changed after original purchase of the product from the dealer. 2. Our obligations are limited to repair of the defect or replacement.			
Tracker shows offline	Check whether external power is still connected. Check if the vehicle entered network blind area. Check the balance of SIM card.	the defective part or at its discretion replacement of the produc 3. Warranty repairs must be carried out by our Authorized Serv Centre. Warranty cover will be void, even if a repair has been attempted by any unauthorized service centre.			
Unable to locate	Make sure the top side facing upward without metallic things shielded. Make sure it's not in area with no satellite coverage.	4. Repair or replacement under the terms of this warranty provide right to extension or renewal of the warranty peric 5. The warranty is not applicable to cases other than defe material, design and workmanship.		y period.	
Location drift	In area with poor GNSS signal(tall building around or basement), drifting may happen. Check whether vibration happens around to trigger the accelerator.	Maintenance Record			
	Make sure command format is correct.	Date		Service by	

Vehicle may be in network blind area.

Make sure SIM card is well inserted and have

Check the APN and IP settings.

Mainten	ance	Re	cord
D-4-			Camila

Date	Service by	
Product Model		
IMEI Number		
Failure Description		
Comments		

Warranty instructions

1. The warranty is valid only when the warranty card is properly completed, and upon presentation of the proof of purchase Declaration of Conformity consisting of original invoice indicating the date of purchase, model Hereby, ShenZhen Jimi IoT Co., Ltd declares that the radio equipment type and serial No.of the product. We reserve the right to refuse JM-VL03 of is in compliance with Directive 2014/53/EU, and this product warranty if this information has been removed or changed after the is allowed to be used in all EU member states. original purchase of the product from the dealer. 2. Our obligations are limited to repair of the defect or replacement the defective part or at its discretion replacement of the product itself. 3. Warranty repairs must be carried out by our Authorized Service Centre. Warranty cover will be void, even if a repair has been

ACC ON

Yellow (fuel cut-off)

Panic button (Optional)

GSM 900MHz: 29dBm(MAX) , GSM 1800MHz: 26 dbM(MAX)

4. Repair or replacement under the terms of this warranty does not

JM-VL03

GNSS VEHICLE TERMINAL

USER MANUAL

V2.2