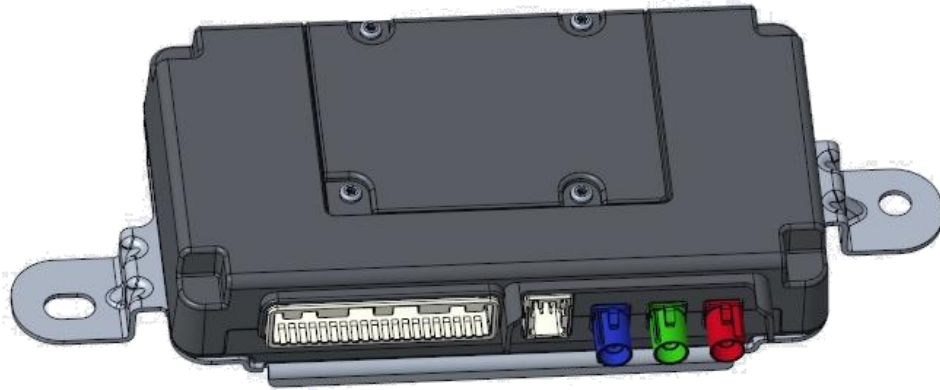


Telematics Module User Manual

(Version 1.0)



Please carefully read the User Manual before using to ensure correct and efficient operation. Product appearance, color and accessories are subject to change without prior notice !

1. Guide

1.1. Product Features.

The product features include networks communication, vehicle data monitoring, GNSS location information receiving, OTA. The data transmission between the system and the background depends on the carrier network.

1.2. List of Features.

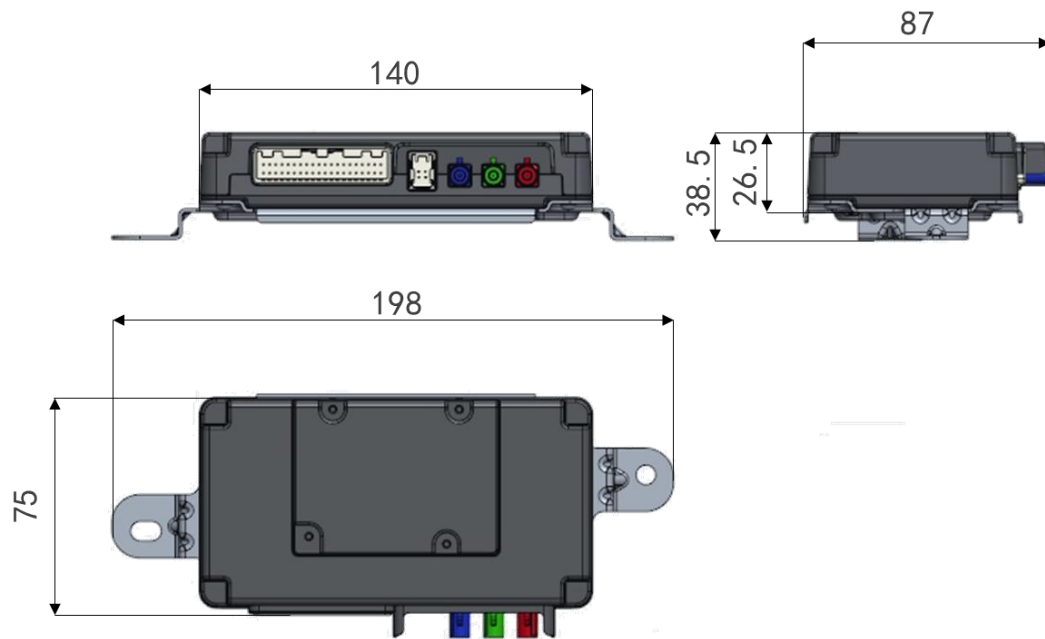
No.	Features	Description of Features
1	4G	Support for internet access
2	GNSS	Support for GPS satellite positioning with synchronization for GLONASS, BEIDOU, Galileo, QZSS for assisted positioning.
3	Upgrade	OTA (Over-The-Air) firmware upgrade

1.3. Parameters

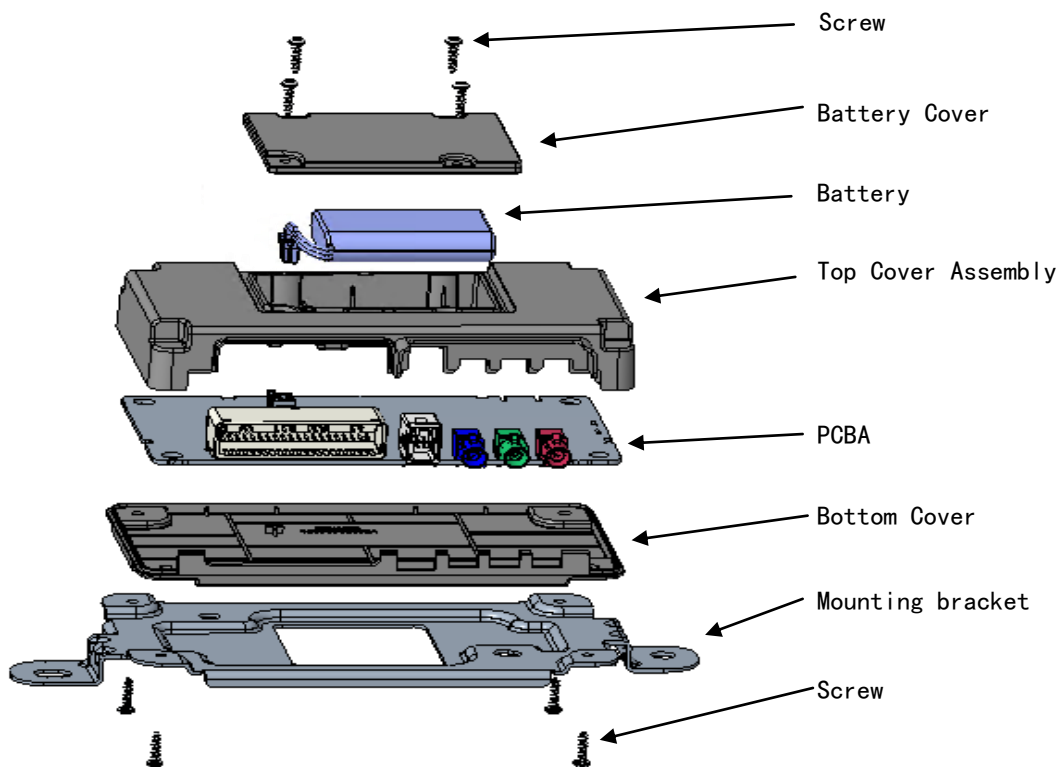
Function module.	Parameters	Performance
GNSS	Tracking sensitivity	-162dBm
	Acquisition sensitivity	-158dBm
	TTF	<35S(Cold start) /<2.5s(Warm start)
	Positioning accuracy	When the signal is good <2.5m
GNSS frequency	GPS	1575.42±1.023 MHz
	GLONASS	1597.5~1605.8 MHz
	Galileo	1575.42±2.046 MHz
	Beidou	1561.098±2.046 MHz
	QZSS	1575.42 MHz
LTE FDD	Frequency Band	B2/B4/B5/B7
WCDMA	Frequency Band	B2/B4/B5
GSM	Frequency Band	850MHz, 1900MHz
RF output power	GSM: 33.50dBm WCDMA: 23.5dBm LTE: 24dBm	
Audio	THD	<1%
Weight	322±30 g	
Operating temperature range	-40℃ ~+85℃	
ANTENNA TYPE AND GAIN	External Antenna GSM850:-2.24dBi, GSM1900:0.45dBi WCDMA B2:0.45dBi, WCDMA B4:1.02dBi, WCDMA B5:-2.24dBi LTE B2:0.45dBi, LTE B4:1.02dBi, LTE B5:-2.24dBi, LTE B7:1.72dBi	

2. Product introduction

2.1. Exterior description



2.2. Installation instructions



- a. Install the PCB board on the bottom cover according to the opening position of the terminal.
- b. After closing the top cover, insert the battery into the battery case
- c. Lock the battery cover screws, flip the machine over, and install the bracket
- d. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

3. CE Statement

Hereby, Huizhou Desay SV Automotive Co., Ltd. declares that the radio equipment type SGMW-TBOX-05&SGMW-TBOX-07 is in compliance with Directive 2014/53/EU.

4. Manufacture

Company Name: Huizhou Desay SV Automotive Co., Ltd.
 Address: No. 103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou City, Guangdong Province 516006, P.R. China

5. Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Don't change the antenna provided by manufacturer.