

TK206OBD

GPS+GPRS+OBD



1. Technical parameter

- 1) .GSM : 850/900/1800/1900 Quad band
- 2) .GPRS: Class12, TCP/IP
- 3) .Working Voltage : 9-50V DC
- 4) .Working current : $\approx 22\text{mA}$ (12vDC)
- 5) .Working current : $\approx 12\text{mA}$ (24vDC)
- 6) .GPS locating time : Cold start $\approx 38\text{s}$ (Open sky)
Warm start $\approx 32\text{s}$
Hot start $\approx 2\text{s}$ (Open sky)
- 7) .GPS Precision : 10m (2D RM)
- 8) .Working temperature : $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- 9) .Working humidity : 20% ~ 80%RH
- 10) .Measurement : 71 (L) \times 49 (W) \times 24 (H) mm
- 11) GPS chips: U-blox GSM chips: MT6261

2.Outlook

3.Device status indicators

3.1Connect DC 9-24V power supply and the red LED will light continuously.

3.2The green LED glistens when searching the GPS signals. When GPS works, the LED lights continuously.

3.3The intermediate blue LED (GSM signal state)

GSM signal is normal, blue LED light long bright. No GSM signal, the blue LED flashes (0.2 sec/2 sec) .

GPS LED not fixed, long bright. Positioning flashes (0.2 sec/2 sec) ;

Power LED: long bright;

4.Installation

4.1 Preparation for the installation

4.1.1 Product Check. Open the packing box and check the device's model and accessories.

If the model is wrong or the accessories not complete, please contact the dealer.

4.1.2 Choose SIM card. Please insert a SIM card to the device. Please take dealer's advice as reference.

4.1.3 SIM card installation. Discharge the cover of the device and uncover the SIM card holder. Then insert the SIM card and cover SIM card holder (as follows).



4.1.4 Put back the front cover and screw it up.

4.1.5 Connect the device to the 9-50V power supply. (the red LED constant glow)

4.1.6 Install the device in the hidden place of the car ;

The SIM card must be with GPRS function and enough deposit. If your SIM card need input PIN when power on, please cancel it.

5. User Settings

5.1 Set class instruction

1) CENTER		
Text command	Parameter	Sample
CENTER Add	710#number# 711#number#	710#13500135000# 711#13800138000#
CENTER Del	D01# D02#	D01# D02#

Command Description	<p>1)Center number can control the oil and power and resume factory settings</p> <p>2) Center number can receive the call and text of vibration alarm and over speeding alarm.</p> <p>3) SIM must display the income call number to control oil and power.</p> <p>4) Only one number can be center number.</p> <p>5) Change center number must resend the command.</p> <p>6)Add new center number by CETNER,A, and delete by CENTER,D</p>
Command Feedback	Successful Setting : Add admin account 1 OK!

2) View administrator number

Text command	Parameter	Sample
View	901#	901#
Command Description	This directive is used to view Device Manager number.	
Command Feedback	Successful Setting: Admin1: Admin2:	

3) Authorized number set

Text command	Parameter	Sample
Authorized Add	101# number # 102# number # 103# number #	1: 101#13800138000# 2: 102#12345678912# 3: 103#12345678912#
Authorized Del	D11# D12# D13#	D11# D12# D13#

Command Description	<p>1) Authorization number for SMS control oil.</p> <p>2) only three numbers to set the authorization number</p> <p>3) change the authorization number needs to delete the previous number</p>
Command Feedback	Successful Setting: Add Authorization account 1 OK!

4) View authorized number

Text command	Parameter	Sample
View	C10#	C10#
Command Description	This directive is used to view the equipment authorization number	
Command Feedback	Successful Setting: Authorization 1 : Authorization 2 : Authorization 3 :	

5) APN

Text command	Parameter	Sample
APN Setting	802#username#password]	1 : 802#intenet#123#123# 2: 802#wap#
Command Description	APN differs according to the local telecom operators. For example : APN request password , please refer to Sample1 , and Sample2 for no password.	
Command Feedback	Successful Setting : SET APN OK !	

6) Set / view SERVER

Text command	Parameter	Sample
SERVER Parameter	803#SERVER # port#	803#58.61.154.233#7018#
view SERVER	CIP#	CIP#
Command Description	Change the IP and port when move to a new server port : 10~65535 1 is domain and 0 is IP ;	
Command Feedback	Successful Setting : set IP OK!	

7) TIMER

Text command	Parameter	Sample
TIMEER Parameter setting	730#uploading interval#	730#20#
Command Description	Time scope :0 ,10~60 seconds ; 0,no data uploading ; 10~60,means time interval ; the default value is 15 seconds !	
Command Feedback	Successful Setting : SET TIMER OK !	

8) STATIC

Text command	Parameter	Sample
STATIC	SUP# time interval#	SUP#5#
Command Description	Time scope : 1~60 minutes ; The device has3Dtransmission and the default time interval are 5	

	minutes.
Command Feedback	Successful Setting: SET STATIC TIME OK!

9) Cancel the continuous upload

Text command	Parameter	Sample
NUP	NUP#	NUP#
Command Description	This command is used to cancel sending data to the platform If need again to restore the upload , you need to send TIMEER Parameter setting or STATIC	
Command Feedback	Successful Setting : Close upload gps information ok!	

10) GMT

Text command	Parameter	Sample
GMT	801#location, time#	801#E8#
Command Description	The default time zone is Beijing time. If time zone need revised, please operate according to the above command.	
Command Feedback	Successful Setting : Set time zone ok!	

11) VIBRATION

Text command	Parameter	Sample
VIBRATION Parameter	123#2#alarming way#	1) 123#2#3#
Set into vibration alarm time	V123#2#	1) V123#2# 2) V123#1#
Cancel vibration alarm	456#	456#
Command Description	the sensitivity value of the vibration is from 1 to 5 , 1 is the most sensitive and 0 is close. Alarming ways: 1, calling 2, texting, 3 calling and texting. Must set the center number and receiving number.	
Command Feedback	set vibration alarm level , OK!	

12) SPEEDING

Text command	Parameter	Sample
SPEEDING Parameter	SSA#120#alarming way#	1)SPEEDING,120,3# 2)SPEEDING,120#
Command Description	The speed scope is form 60-220, if the speed is no this cope, the alarm is off. Alarming : 1, calling 2, texting, 3 calling and texting. Must set the center number and receiving number.	
Command Feedback	Successful Setting : set speeding alarm , OK!	

13) RESET

Text command	Parameter	Sample
RESET	930#	930#
Command Description	Reset the device	
Command Feedback	Successful Setting : Reset system, ok!	

14) FACTORY

Text command	Parameter	Sample
Parameter	940#	940#
Command Description	Restore the factory setting Only center number can initial this function Factory setting will recover to the original setting	
Command Feedback	Successful Setting : FACTORY OK !	

15) LANG

Text command	Parameter	Sample
LANG Parameter	LANG1# LANG0#	LANG1# CHINESE, LANG0# ENGLISH
Command Description	LANG1# :Command reply Chinese text LANG0# :Command reply English text	
Command Feedback	Successful Setting : SET LANG OK !	

16) WHERE

Text command	Parameter	Sample
WHERE	988#	988#
Command Description	Check the longitude and altitude and other information of the device	
Command Feedback	Reply with longitude and altitude, speed and IMEL.	

17) URL

Text command	Parameter	Sample
WHERE	666#	666#
Command Description	Check the location link of Google map	
Command Feedback	<Datetime:12-07-05 13:21:30> http://maps.google.com/maps?q=N22.540885,E113.95265	

18) VERSION

Text command	Parameter	Sample
VERSION	V00#	V00#
Command Description	The command is to check the software version	
Command Feedback	VERSION:Xxxx BUILD:2012-07-05 10:12	

19) PARAM

Text command	Parameter	Sample
PARAM	886#	886#
Command Description	The command is to check the settings and the default parameter.	
Command Feedback	IMEI:351190012535936 APN : cmnet IP:IP and port MUP TIMER: moving uploading interval SUP TIMER: static uploading interval LANG: language(CN/EN) GMT: time zone (E/W8)	

20) STATUS

Text command	Parameter	Sample
STATUS	902#	902#
Command Description	The command is designed for checking the device's working status.	

Command Feedback	External power:ON/OFF GSM Signal:HIGH/MIDDLE/LOW GPS:FIXED/UNFIXED Vibrate Warning:ON/OFF Pause:ON/OFF
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6.OBD with diagnosis

1 Product Overview

This product is a professional-grade automotive OBD product has the following characteristics:

- 1) Compact
- 2) the interface is simple (external interface simple and practical)
- 3) Easy to use (can be integrated via the serial port with a variety of automotive electronic products)
- 4) Applicable models widely (equipped with OBD systems applicable to all passenger cars)

This product has passed the standard diagnostic connector J1962 diagnostic socket connection with the car, you can get all kinds of standard automotive OBD

data

And communicate via a standard serial port and other peripherals, as traditional products to add new applications to bring customers more and better

Features and experiences.

This product is designed, excellent workmanship, stable and reliable performance, online upgrades, new features can be instantly updated.

2:Function:

- 1)Get the vehicle to support the activities of data items (**data flow** item)
- 2)Get vehicle support freeze data items (freeze frame items)
- 3) Get the vehicle support vehicle information items (vehicle identification items)
- 4) Get the vehicle activity data items (90 more)
- 5) Get the vehicle freeze data items (including malfunction code freeze frame storage and related field data)
- 6) Get the vehicle identification information items (vehicles VIN number, etc.)
- 7) has decided to get the fault code
- 8) Get pending fault code
- 9) Clear fault information

- 10) hard acceleration monitoring
- 11) rapid deceleration monitoring (brakes)
- 12) Parking is not flame monitoring (alarm)
- 13) Battery voltage monitoring (automatic low voltage alarm)
- 14) trip mileage statistics
- 15) trip fuel consumption statistics
- 16) Travel time statistics
- 17) to get the total mileage of the vehicle
- 18) to obtain instantaneous fuel consumption of vehicles
- 19) reading device parameters (model, displacement, mileage, low-voltage threshold, parking is not flame threshold, alarm control ...)
- 20) set the device parameters (models, displacement, mileage, low-voltage threshold, parking is not flame threshold, alarm control ...)
- 21) Other extensions

3. product protocol support

This product is a communication protocol for the international standard with the car, including as follows:

- 1) SAE_J1850_VPW
- 2) SAE_J1850_PWM
- 3) ISO_15765_STD_500
- 4) ISO_15765_EXT_500
- 5) ISO_15765_STD_250
- 6) ISO_15765_EXT_250
- 7) ISO_9141_08_Init
- 8) ISO_9141_94_Init
- 9) ISO_14230_Slow_Init
- 10) ISO_14230_Fast_Init

4. Interface means

OBDII J1962 connector meets standards, can be mounted directly to the vehicle

OBD diagnostic seat to use.

OBD diagnostic seat vehicle signal is defined as follows:

Pin 2 - J1850 Bus+(VPW/PWM)

Pin 4 - Chassis Ground

Pin 5 - Signal Ground

Pin 6 - CAN High (CANBUS)

Pin 7 - ISO 9141-2 K Line(ISO9141-2/KWP2000)

Pin 10 - J1850 Bus-(PWM)

Pin 14 - CAN Low (CANBUS)

Pin 15 - ISO 9141-2 L Line(ISO9141-2/KWP2000)

Pin 16 - Battery Power

- Communication Interface Definition

Using serial communications, serial port level is TTL / CMOS (3.3V), the pin is defined as follows:

1 red wire, power supply positive output, DC12V

2 white wire, serial data output, TxD

3 blue line, serial data input, RxD

4 black lines, power ground, GND

6 Technical parameters

Voltage DC9 ~ 16V

Current 35mA (normal) <10mA (standby)

Operating temperature -20 °C ~ +70 °C

Storage temperature -40 °C ~ +85 °C

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6: The OBD data is upload the platform by GPRS, and you can see this info. As like the photo:

The screenshot displays a GPS tracking application interface. At the top, a map shows the location of the vehicle in Subhash Nagar, with a table of OBD data overlaid. The table lists four OBD fault alarms for vehicle ID 7028349413, including details like alarm type, time, and location. Below the map, the application's main interface is visible, featuring a sidebar with 'Monitor' and 'Statistics' tabs, a central 'OBD diagnosis' panel with various vehicle metrics, and a map on the right showing the vehicle's current location and status. A pop-up window on the map indicates the vehicle is 'Connected' and provides additional details like battery level and location history.

Alarm information	<input checked="" type="checkbox"/> Open the alarm sound	Filter the type of alarm				
7028349413 OBD fault alarm	2015/3/10 2:32:58	2015/3/10 3:37:34	0	north	Has been located	Untreated
7028349413 Vibration alarm	2015/3/16 2:29:21	2015/3/16 2:29:21	5.1	Due south	Has been located	Untreated
7028349413 OBD fault alarm	2015/3/15 21:00:33	2015/3/16 2:29:33	9.4	South	Has been located	Untreated
7028349413 OBD fault alarm	2015/3/15 17:25:03	2015/3/16 1:43:12	0	northeast to west	Has been located	Untreated

OBD diagnosis

Vehicle data

Current faulty

Renewals Data



Time for start:2015/3/16 12:08:52



Distance:2.71 KM



Total speedover seconds:0 Count



Emergency brake times :-- Count



Emergency speedup time:-- Count



Max Temp:85 °C



Power:-- V



Average fuel used:12.46 L



Time for end:2015/3/16 12:19:26



Max speed:43 KM/H



Brake times:-- Count



Speed up times:-- Count



Average speed:20 KM/H



最高发动机:2707 rpm



Total fuel used:0.34 L



疲劳驾驶:-- Minutes

OBD diagnosis

Vehicle data

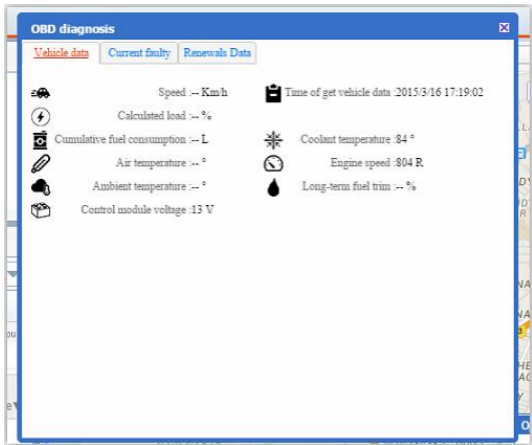
Current faulty

Renewals Data

Get the current fault code:2015/3/16 17:19:02

Fault code	Description
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P0108	
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The mobile APP also support real time check the OBD data:



027021909593 ▼

Total fuel consumption 1.234L

Average Fuel Economy 5.58522675839594L

Driving distance 22.094km

The number of speeding 0 Times

Maximum speed 74km/h

Braking times Times

Emergency braking times 1Times

Acceleration times Times

Acceleration times of emergency 0Times

Average speed 48km/h

