
specification

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1. Basic introduction of products

Fuel Consumption Sensor For Large Trucks

Multifunctional GPS Locator

支持频段: LTE-FDD: B1, B2, B3, B4, B5, B7, B8, B12, B20, B28AB, B6 6
LTE-TDD: B34, B38, B39, B40, B41
GSM 850/900/1800/190 0MHz

9-100V wide voltage Wireless SOS

One click fuel cut-off External oil quantity sensor

Support remote control Voice speaker bidirectional call

4G **GPS Large Truck Fuel Sensor**
4G Positioning Bidirectional Call

1.1 Product Introduction

Product name: GPS positioning terminal

Product model: AD22-C

Product specification: 82mm length * 42mm width * 16mm height

Product features: AD22 is a wireless communication on-board positioning terminal carefully built for the Internet of Vehicles. It integrates wireless communication technology and GPS / BDS satellite navigation and positioning technology. The terminal adopts industrial-integrated antenna design, built-in 3-axis sensor and intelligent power saving wake up work. With DC detection, ACC detection, power failure alarm, overspeed alarm, mileage statistics, remote oil and power shutdown, remote voice call SOS emergency call, etc. With the global positioning service platform, the real-time acquisition and tracking and positioning functions of vehicle data are realized.

1.2 Product pictures

2. functional characteristics

- Support power-off alarm, overspeed alarm and other alarm functions;
- Can externally connect the oil and electricity relay / wireless oil break accessories, support the monitoring object off the oil circuit / circuit function, to realize the oil and electricity break function;
- Support the electronic fence function, users delimit the virtual electronic fence through the platform / APP, when the device can identify and exit the platform and alert the fence;
- Send alarm SMS / phone to the monitoring number when the alarm occurs, and the alarm is uploaded to the platform at the same time;
- The terminal adopts well-known manufacturer industrial grade high stability GPRS module, built-in GSM high sensitivity antenna, support TCP / IP data transmission, support domain name / IP address connection server;
- The built-in large-capacity memory chip supports offline data storage and blind spot data. When the vehicle is weak in wireless signal or serious interference, the vehicle opportunities to temporarily store the running data in FLASH. When the wireless signal returns to normal, the data can be transmitted to realize the data without omission.;
- Built-in 3-axis acceleration sensor, fusion of accurate acceleration algorithm, real-time access to the current attitude of the vehicle and other vehicle condition judgment;
- High sensitivity GPS / BDS double star positioning module, anti-interference ceramic antenna, to achieve more stable star search signal, support AGPS fast positioning tracking, synchronous timing;
- In hibernation mode, support battery low voltage monitoring alarm, abnormal vibration alarm and other vehicle start, stall, sleep automatic report news;
- Support for online remote upgrade and remote configuration of product parameters.

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- Low power consumption and energy saving mode, accurate judgment of the car ignition and flameout state, intelligent sleep and wake up mechanism, can reduce the average power consumption of the whole system;

3. Product Parameter

3.1 Hardware specification and parameters

	Function name	have	not have	Project function description
electrical character	power supply mode	●		Battery power supply
	Operating voltage range	●		DC 9V - 95V
	working current	●		12V / a mean of 38mA
	The dormant current	●		12V / a mean of 10mA
	Built-in battery capacity	●		140 mAh (3.7V, polymer battery) is optional
environmental characteristics	operating temperature range	●		-20°C - 75°C
	Storage temperature range	●		-30°C - 80°C
	Operating humidity range	●		10% - 85% RH does not condense
Communication characteristics	Communication module brand / chip model	●		SIM 7670 SA
	Communication frequency band	●		LTE-FDD: B1, B2, B3, B4, B5, B7, B8, B12, B20, B28AB, B66; LTE-TDD: B34, B38, B39, B40, B41
				GSM /2G
	SIM block	●		Micro SIM Card
	Communication antenna	●		Built-in antenna
	Antenna specification	●		FPC antenna
	The GPS / BD localization characteristics	Positioning module brand / chip model	●	
location mode		●		Big Dipper +GPS
Cold start time		●		An average of 32 seconds
Heat start time		●		Mean 1 second
tracking sensitivity		●		-162 dBm
Positioning antenna		●		Built ceramic dielectric antenna
Antenna specifications		●		25mm * 25mm * 4mm
GPS frequency range		●		L1: 1575.42±1.023MHz
Beidou frequency band		●		B1: 1561.098±2.046MHz

	Number of satellite channels	●	64
	positioning accuracy	●	<10m (1 σ)
	Time accuracy	●	<30ns (1 σ)
	rate accuracy	●	<0.1m/s (1 σ)
	maximal acceleration	●	4g
	maximum speed	●	515m/s
	maximum altitude	●	18000m
peripheral interface	Cut off the oil	●	Can be connected to an external road relay
	SOS	●	Can be connected to the SOS button
	ACC detection input	●	ACC test port # # 1
	suona	●	All the way to the alarm horn
telecontroller	422	●	Two remote controls
External communication serial port	RS485/RS232	●	either-or
Appearance specifications	Host size (length, width and height)	●	82mm * 42mm * 16mm
	Case material	●	ABS plastics
	IP levels of protection	●	IP 66
	Host weight	●	53 grams

4. software protocol

Agreement name	Required version	Whether to support	
GT06	GT06 GT06N	support	Support expansion
TianQin	TQ	support	Support expansion
808	JT808/2011 JT808?2013	support	Support expansion