

HOLLOO-H100

Product specification

HOLLOO TECH.

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1、Product effect diagram



2、Product introduction

HOLLOO-H100 is a commercial vehicle OBD intelligent terminal.

Integrated GSM communication module, GPS module, and advanced high-precision high-performance three axis gravity sensor and vehicle ECU computer communication module;

Support two-way CAN/J1939 communication, you can vehicle operating conditions, vehicle data, vehicle fuel consumption data, driver control data, etc., through the GSM module uploaded to the vehicle networking management cloud platform. Freight management platform through terminal data, statistics freight vehicle track, sign in, driving behavior, fuel consumption statistics and so on, realize long-distance management of freight fleet, at the same time through standard driving behavior, reduce vehicle fuel consumption.

With two RS232 extensions, external cameras, clock punch and other devices, will help achieve intelligent fleet management.

3、Product function

3.1、Vehicle function

Communication management function	Dormancy	When the vehicle is out of flame for 5 minutes, it enters dormancy and reduces power consumption.
	Network disconnected reconnection	Network drop can automatically reconnect
	Communication protocol	Data information interacts with the platform using the TCP protocol.
	Parameter setting	Directly through the platform to the terminal IP address, port number, APN settings, and password protection.

Positioning function	Location data	Including latitude and longitude, time, satellite number, speed, direction, ACC state, battery voltage, OBD speed.
	Base station location function	Contains network base station, LAC and Cell ID information, operator coding.
	Intelligent trajectory	The terminal automatically judges the trajectory, realizes the intelligent reporting of GPS points, and realizes the butterfly shape effect of the track.
	Report by time interval	The monitoring platform establishes the mode and frequency parameter of transmitting terminal to return the location information.
Reminder alarm function	Ignition on reminder	Vehicle ignition report, ignition alarm, including alarm time, GPS information.
	Ignition off reminder	Vehicle flameout reporting, flameout alarm, including alarm time, GPS information.
	Low voltage alarm for vehicle	The vehicle voltage is below the voltage threshold which can be set, reporting low voltage alarm, including alarm time and GPS information.
	Idle too long alarm	The idle time of the vehicle exceeds the time threshold that can be set. The idle time is reported to be too long, and the alarm time is included, and the GPS information is included.
	Water temperature alarm	For vehicles that support OBD water temperature data, the water temperature is above the set temperature threshold, and report to the water temperature alarm, including alarm time, GPS information and water temperature value at that time.
	Over Speed Alarm	Vehicle speed exceeds the speed threshold that can be set, report to over speed alarm, including alarm time and GPS information.
	Collision alarm	When the vehicle is moving, the acceleration is greater than the threshold that can be set. It is filtered by the front and rear speed, defined as a severe crash scene, reported to the collision warning, including collision time, GPS information, collision acceleration
	Trailer alarm	The trailer is reported to the trailer, including Trailer time and GPS information.
	Fatigue driving	Vehicle running time is too long, automatic identification report fatigue driving

	reminder	reminder.
	Device insertion alarm	Insertion of terminal device, reporting, insertion, warning.
	Device pull out alarm (optional)	Pull out the terminal device and report the alarm
	Positioning time is too long	When the vehicle fires, the positioning time exceeds the set time threshold, the reporting positioning time is too long, and the alarm contains the alarm time and the GPS information.
Driving behavior	Driving behavior	Including driving cycle start time, terminal time, driving cycle, total mileage, average speed, maximum speed, over speed time, speed, idle speed, rapid acceleration, rapid deceleration, sharp turn information.
	Driving behavior event	During the running of the vehicle, the event of rapid acceleration, rapid deceleration and sharp turn occurs.
OBD Data	Vehicle data flow	Report vehicle critical data stream every 30S. The specific data items according to the vehicle data support a slightly different.
	Read Trouble Code	The terminal identifies the Trouble Code and reports the platform when the vehicle fault condition changes.
	Clear Trouble Code	Clear Trouble Code by issuing instructions on the platform.
Remote control management function	Remote upgrade	Terminal software can be upgraded remotely and upgraded via FTP server.
	Remote Reboot	Reboot by way of data channel instruction.
	Remote inquiry	The platform remotely queries the terminal information, vehicle type, GPRS communication parameters, heartbeat parameters, GPS/CAN return parameters, SIM card information, GPS information, CAN data stream, and current fault through the mobile network. All kinds of alarm parameters, urgent acceleration, and sharp deceleration, sharp turn parameters.
	Remote settings	The platform through the mobile network remote setting terminal information, vehicle type, GPRS communication parameters, heartbeat parameters, GPS/CAN return

		parameters, clear the vehicle malfunction, restart, restore factory settings, remove the blind data, a variety of alarm parameters, speeding up the rapid deceleration turn parameter.
	Version Report	Each ACC ON reports version information. The platform checks the version information of the engine through the instruction.
	SIM card information report	Every time ACC ON reports SIM card, IMEI number and so on. The platform checks the SIM card, IMEI number and so on through the instruction.
	Module checking	Terminal status self-check: to check whether the function modules (location module, bus module, FLASH and 3D module) work properly and alarm when they happen (which have nothing to do with wireless communication)
Backup power	Standby tracking and alarm (optional)	After the terminal is pulled out, the internal battery is powered, and the alarm and track position information is reported.

3.2、OBD Data

Battery voltage	Manifold pressure	Accelerator pedal position
Total mileage class	Fault lamp status	Engine running time
Total mileage	Number of fault codes	Breakdown mileage
Total fuel consumption	Coolant temperature	Remaining oil
Engine speed	Vehicle ambient temperature	Engine load
Vehicle speed	Fuel pressure	Long term fuel amendment
Air flow	Atmospheric pressure	Ignition advance angle
Intake temperature	Throttle position	Total vehicle running time

- Various models of different information, supported by the data items are different, with the actual situation of vehicles for support.

4、Protocol support

4.1、Network communication protocol

TCP protocol

4.2、OBD communication protocol

SAE-J1939
ISO-15765 500K ST
ISO-15765 500K EX
ISO-15765 250K ST
ISO-15765 250K EX
ISO-14230 FAST
ISO-14230 SLOW
ISO-9141-2

5、Performance parameter

Performance parameter	
Size	100*80*28 (Length * width * height)
working voltage	9V-36V DC
Average operating current	80mA@12V; 40mA@24V
Sleep working current	10mA@12; 5A@24V
Working temperature	-30°C ~ +70°C
Storage temperature	-40°C ~ +85°C
Positioning accuracy	<10m
GPS	50 passageway GPS L1 C/A
GPRS	GSM
OBD type	OBDII/EOBD/J1939
GPS antenna	External
GSM antenna	External

6、Interface definition

6.1、OBDII connector

OBDII			
No.	Pin definition	No.	Pin definition
1	NC	9	NC
2	NC	10	NC
3	CAN High	11	CAN Low
4	GND	12	NC
5	GND	13	NC
6	CAN High	14	CAN Low
7	K Signal	15	L Signal
8	NC	16	POWER

6.2、Externally connected CAN-FEEL



6.3、Externally connected two RS232 equipment

6.4、SIM card Replaceable

6.5、Indicator light:

①GREEN - GPS; ②BLUE*2 - Communication; ③ORANGE - GPRS

FCC Statement

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.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

FCC Radiation Exposure Statement:

The equipment complies with FCC Radiation exposure limits set forth for

uncontrolled enviroment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.