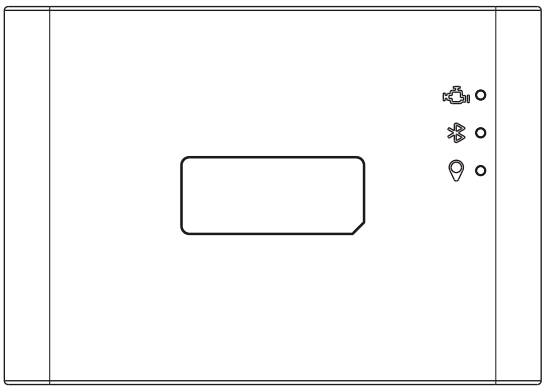
PE11

Electronic Logging Device

Quick Manual (V1.0)



Read this manual carefully prior to use. No prior notice will be given for any changes made to the appearance, color, or accessories of the product.

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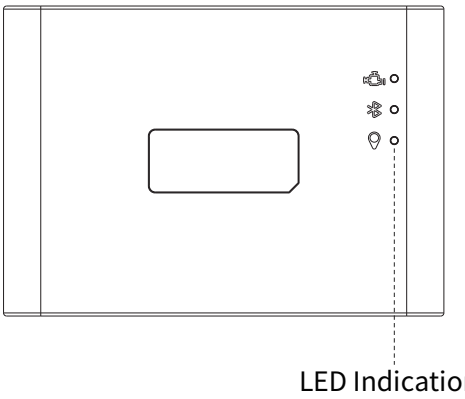
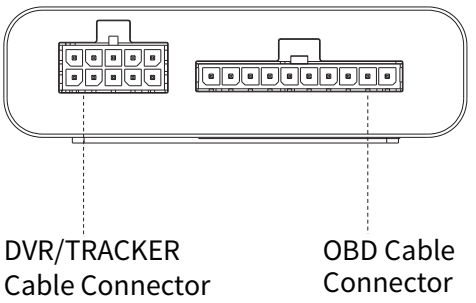
01/Overview

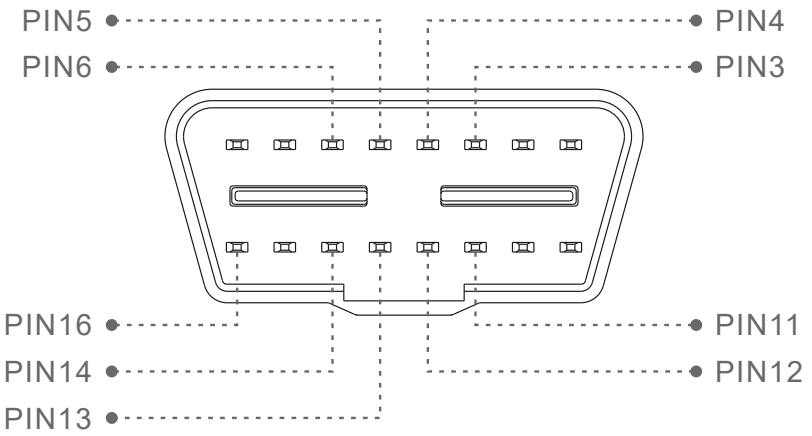
1.1 Appearance



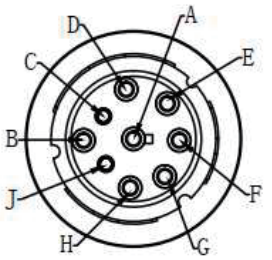


1.2 Pinout

OBDII



Pin Number	Pin Name	Description
3	CAN2_H	CAN2 high
4	GND(-)	Ground
5	GND(-)	Ground
6	CAN1_H	CAN1 high
11	CAN2_L	CAN2 low
12	J1708(+)	J1708(+)
13	J1708(-)	J1708(-)
14	CAN1_L	CAN1 low
16	B+	Power supply (9-33VDC)



J1939F 9PIN

Pin Number	Pin Name	Description
A	GND(-)	Ground
C	CAN1_H	CAN1 high
D	CAN1_L	CAN1 low
B	B+	Power supply (9-33VDC)
F	J1708(+)	J1708(+)
G	J1708(-)	J1708(-)
H	CAN2_H	CAN2_high
J	CAN2_L	CAN2_low

1.3 LED Indication

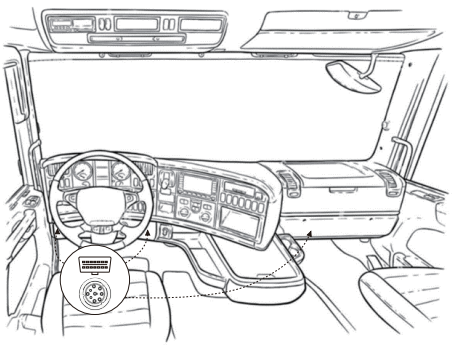
Status	Description
All 3 LEDs on	CAN, Bluetooth, and GNSS are functioning normally
3 LEDs flashing at 50ms (20Hz) intervals	Firmware upgrade in progress
Yellow LED flashing at 1s (1Hz) intervals	Identifying CAN protocol
Green LED flashing at 1s (1Hz) intervals	No Bluetooth device connected
Blue LED flashing at 1s (1Hz) intervals	Searching for GNSS satellites

02/Installation

2.1 Installing the Device

Connect the device to the vehicle:

-Locate the OBDII or J1939 diagnostic port in your vehicle (the following figure shows common connector locations for most vehicle brands)



03/Introduction

3.1 Features

- Obtain real-time vehicle data (accurate mileage, fault code, ACC status, fuel consumption statistics, battery voltage, engine speed, engine hours, etc.).
- Provide power supply and precise ACC signal for peripherals, simplifying installation.
- Support GNSS.
- Support FOTA and local firmware upgrade.
- Support wake-up by vibrations, voltage change, and the receipt of CAN packets.
- CAN data can be transmitted to a mobile phone or tablet via Bluetooth and displayed in the designated app.

3.2 Basic Configuration

Power

Input voltage	9-33VDC
Output voltage 1	5VDC, 0.3A
Output voltage 2	9-33VDC, 3A

OBD interface

Data	J1708, CAN Bus Data
Data Reading	ISO 15765-4 CAN (11 bit ID,250 kbaud) ISO 15765-4 CAN (11 bit ID,500 kbaud) ISO 15765-4 CAN (29 bit ID,250 kbaud) ISO 15765-4 CAN (29 bit ID,500 kbaud) SAE J1939 CAN (29 bit ID,250 kbaud) SAE J1939 CAN (29 bit ID,500 kbaud) SAE J1708/J1587

Interface

Connection	OBDII & J1939 9-pin port to 10-pin connector (Molex-3.0, 1*10-Pin)
LED indication	3 status LED(Yellow、Green、Blue)
Output port	10-Pin (Molex-3.0, 2*5-Pin)
GNSS antenna	Internal High Gain

Physical specification

Dimensions (LxWxH)	70×50×20mm
Weight	60g

Operating environment

Operating temperature	-20°C to 70°C
Operating humidity	5% to 95%, non-condensing

GNSS

Positioning system	GPS/BDS
Frequency	L1/B1
Positioning accuracy	<2.5m CEP50
Track sensitivity	-162 dBm
Acquisition sensitivity	-148 dBm (cold)/-156 dBM (hot)
TTFF(open sky)	Avg.hot start≤1sec
	Avg.cold start≤32sec

Feature

Sensor	Accelerometer
BLE (optional)	BLE 5.0
GNSS	GPS、BDS
Ignition detection	External power voltage, Accelerometer，engine RPM
Fuel monitoring	OBDII

04/Troubleshooting

When any of the following issue occurs, please troubleshoot it by the solution. If the issue persists, please contact your dealer or service provider.

Issue	Description	Solution
LED off	The contact is poor	Check if the device is securely connected with the diagnostic port of the vehicle
Poor satellite signal	The device is blocked by metal objects	Remove the metal objects away from the device

05/Caution

Install the device away from high-temperature components.

Install the device inside the vehicle, as it is not waterproof.

06/Warranty Instructions

Disclaimer

1. No prior notice will be given if the product is upgraded due to technological reasons.
2. The appearance or color of the product is subject to the actual item.
3. The warranty card applies to repair, replacement, and refund services for the product with the following Device ID/BT MAC.
4. Please keep this warranty card and the original purchase receipt together in a safe place, as both will be required at time of services.

Warranty Terms

1. For damages not caused by human factors, this warranty lasts for 2 (two) years (including one year for replacement) from the date of purchase.
2. You can choose to pay for the repair services in any of the following cases:

(1) The warranty card has expired;
(2) No warranty card or valid proof of purchase is provided;
(3) The product, including its accessories, is not within the warranty period;
(4) Damage caused by unauthorized repairs, crash, liquid spillage, accidents, modifications, or incorrect voltag input; or the label, Device ID/BT MAC, or counterfeit mark of the device is broken or defaced;
(5) Damage caused by installation or use not in accordance with the user manual;
(6) Damage caused by force majeure such as fire, flood, or lightening;
(7) The product model is inconsistent with that on the warranty card or the warranty card is altered; or
(8) Other damages caused by force majeure.

Reminder:

As of January 1, 2016, the warranty covers 2 (two) years of repair services from the date of purchase, including one year for replacement. The specific terms are:

1. A full replacement, including accessories, if the product is found defective during the unpacking check;
2. If a defect occurs within one year after installation, then:
   ① Replace only the mainboard if the housing is intact and doesn't affect normal use;
   ② Replace the housing and the mainboard if the housing is defective and affects normal use. Please be noted that man-made damages will void the replacement service for the housing.
3. Free repair services will be provided if a defect is found during the second year under proper use.

Maintenance Record

Date		Serviced by	
Product Model			
BT MAC			
Issue			
Comments			