

# Safety and Warranty information

## CEM (Central electronic control module)

### Manual

Manufacturer: NOBO AUTOMOTIVE TECHNOLOGIES CO., LTD.

Address: No. 668, Caihong Road, Zhangjiagang Economic and Technological Development Zone, Suzhou, Jiangsu, P.R. China

#### Product Description

Product Name: Central electronic control module

Specification & Model: CEM, CEM 100M, CEM 1000M

Installation Location: Behind the vehicle dashboard

Hardware: AA

Software: AA

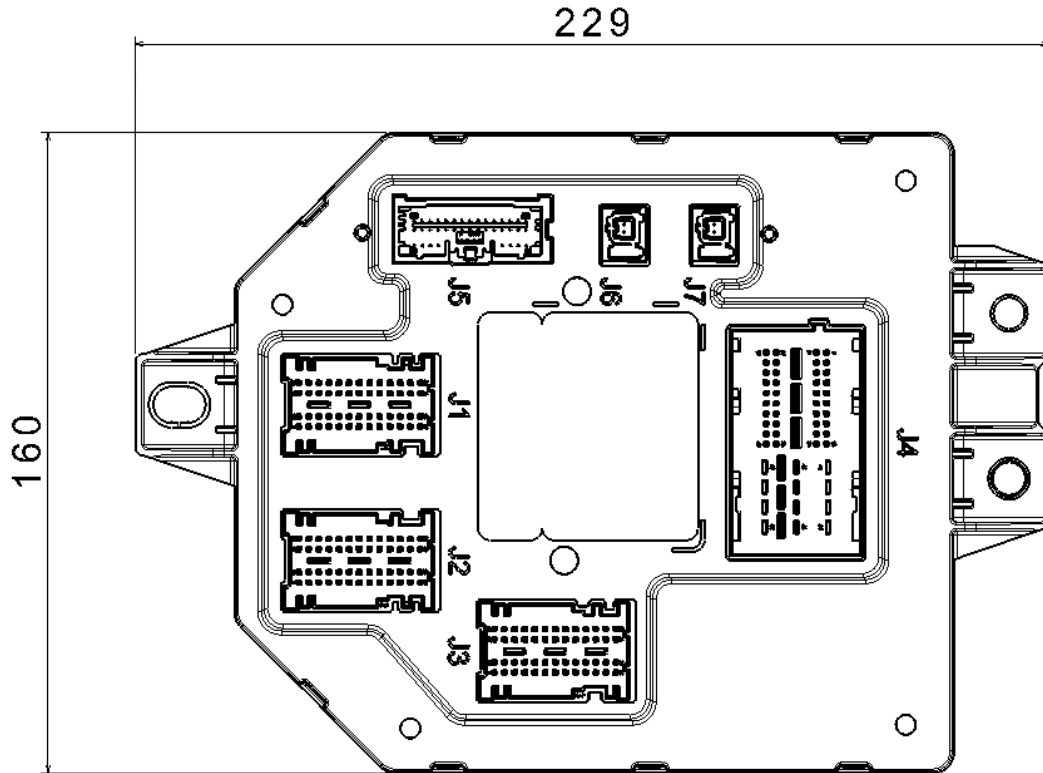
#### Product Features

1. This product can realize the control logic of the vehicle unlocking or locking function.
2. This product can realize the vehicle internal light and external light control logic.
3. This product can realize the control logic of vehicle wiper function.
4. This product can realize the control logic of vehicle window function.
5. This product can realize the control logic of vehicle anti-theft function.
6. This product can realize the control logic of vehicle power-on and power-off function.
7. This product supports Ethernet, CAN and LIN communication, is responsible for connecting each subnet segment of the vehicle, routing the vehicle ECU signal, and supports diagnosis, network management, FOTA, big data upload functions.

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## Technical Parameters

Dimensions: 229\*160\*47mm



Weight: 0.45kg

Working voltage: 9V-16V

Rated voltage: 12V

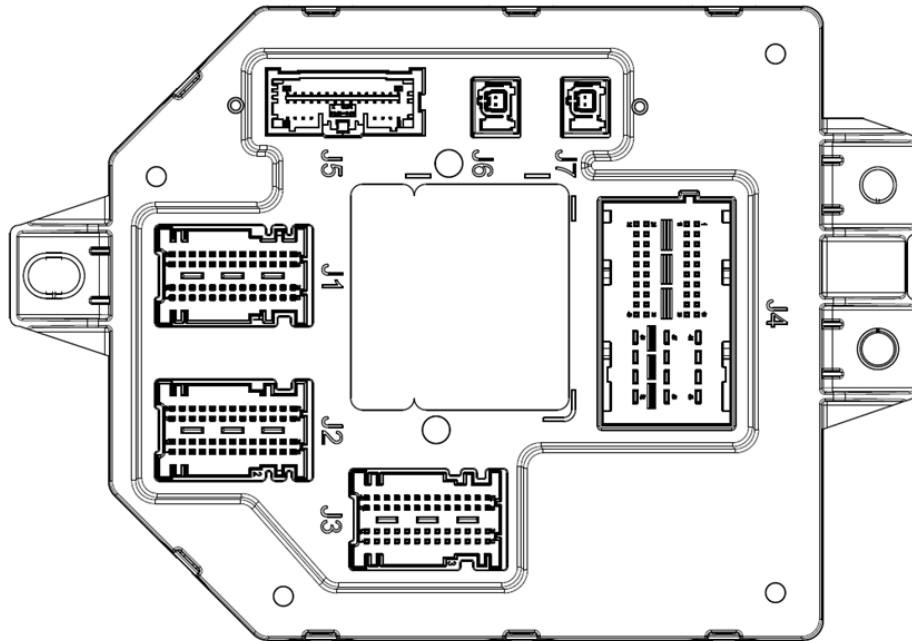
Normal working temperature: -40°C-85°C

Normal storage temperature: -40°C-90°C

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## Feature Description

Schematic diagram of the back-end interface of the CEM:



J1:This connector mainly realizes the function of input collection and output driving.

J2:This connector supports LIN communication and realizes the function of input collection and output driving.

J3:This connector supports CAN communication and realizes the function of input collection and output driving.

J4:This connector supports Power, GND and realizes the function of input collection and output driving.

J5:This connector supports part of Ethernet communication.

J6:This connector supports part of Ethernet communication.

J7:This connector supports part of Ethernet communication.

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## Installation method;

Three screws are installed and fixed under the A-pillar inside the passenger compartment



## FCC 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.

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

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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.

## EU Declaration of Conformity

Hereby, NOBO AUTOMOTIVE TECHNOLOGIES CO., LTD declares that the product type CEM, CEM 100M, CEM 1000M is in compliance with Directives 2014/53/EU & 2011/65/EU. The full text of the EU declaration of conformity is available at the following internet address: XXXXXX