

## Product Specification of BNCM

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### 1. Product identification

Product Name: BNCM

Product Number: PK-BLE-1.0

Customer: GEELY/Zeekr/smart/Volvo/LYNK&CO

### 2. General Product Description

#### 2.1 System of interest

BNCM broadcasts fixed-format BLE periodically, and supports cell phone BLE scanning to trigger a BLE connection.

BNCM supports exchanging certificate information with the cell phone through the connection channel established by BLE, so as to authenticate the cell phone device.

BNCM supports forwarding the unlocking and locking commands of the authenticated legal cell phone device to the vehicle via BLE, which is used for the vehicle to perform unlocking and locking actions.

BNCM supports forwarding the vehicle status to the legal cell phone device after completion of authentication through BLE, which is used to display the vehicle status information in the interface of the cell phone app.

## 2.2 Functions

### No. Functions

1 BLE connectivity and certification with Phone

3 BLE command (RKE) forward to Vehicle

4 Vehicle status forward to Phone

5 PEPS

6 WPC CAN Msg forward to Connectivity CAN

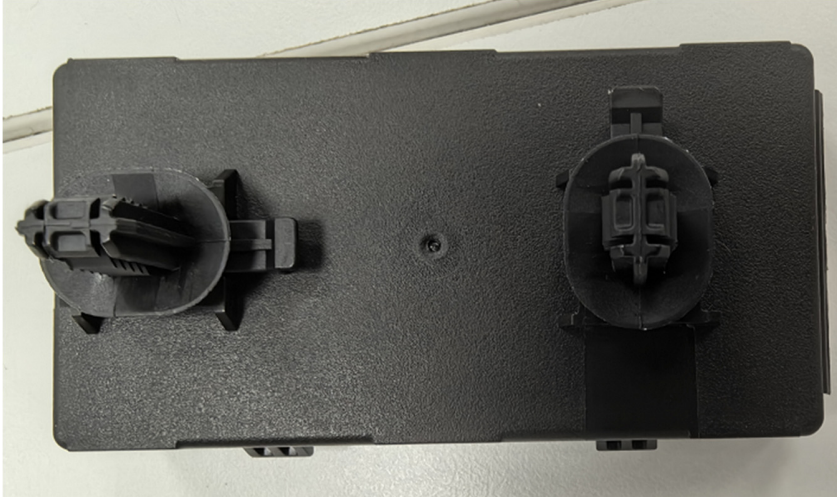
7 Connectivity CAN Msg forward to WPC

## 2.3 Hardware interfaces

### For CE

Parameter	BLE Value
Main frequency range of operation	2402~2480MHz
Bandwidth	2MHz
Modulation	GFSK
Transmission power EIRP	6.68dBm
BLE Broadcast cycle	100ms

## 2.4 Mechanical



## 2.5 Climatic Characteristic

Title	Content
Operation temperature	-40 °C~85 °C
Storage temperature	-40 °C~90 °C
Protection level	IP5K0

## 2.6 Assembly

Avoid wireless equipment, metal wrapping, electromagnetic source, harness group approaching

or crossing, air conditioning compressor and air conditioning outlet.

## 2.7 Abbreviation

Abbreviation	Full Name
PK	Perfect keyless
BLE	Bluetooth Low Energy
PEPS	Passive Entry Passive Start
RKE	Remote Keyless Entry
CAN H	CAN High
CAN L	CAN Low
CAN-FD	CAN with flexible Data Rate
KL.30	Battery Positive
KL.31	Battery Negative

### 3. FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

#### IMPORTANT NOTE:

Note: 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.

#### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.