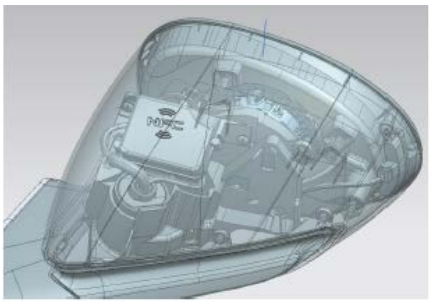
Product Name: Smart Access Controller
Model: K3CH
Trade Mark: BYD

As an important part of the vehicle end of the smart access system, the smart access controller integrates the NFC-related signal acquisition and identity authentication and related signal processing . Receive the NFC-related signals for analysis, and send it to the left body domain controller through CAN for processing.

Installation location

Installed inside the external rearview mirror



The main parameters：

Operating Temperature	-40℃ to +85℃
operation Frequency	13.56MHZ (±7K)
Modulation Type	ASK
NFC Sensing distance	0-5cm，The longest distance is not less than 2.75cm
Operating Voltage	5V
Operating Current	<200mA
Protection Class	IP6K7
CANFD	500K

Product Termination Connector Pin Definition：

pin number	port name	port definition	Harness connection	signal type	Steady state operating current/A	power	Remark
1	power	VBAT	Connect to the left domain controller pin	Power，twisted pair,Twisted with pin2	<1A	5v	Orange line
2	GND	GND	GND	GND，twisted pair,Twisted with pin1	<1A		two-color (Yellow-green) line
3	CAN1	CANFD1-H	Connect to Smart access network	CANFD signal，twisted pair,Twisted with pin4	<0.1A		Pink line
4	CAN2	CANFD1-L	Connect to Smart access network	CANFD signal，twisted pair,Twisted with pin3	<0.1A		purple line
5	CAN3	CANFD2-H	reserve	CANFD signal，twisted pair,Twisted with pin6			Yellow line
6	CAN4	CANFD2-L	reserve	CANFD signal，twisted pair,Twisted with pin5			Grey line

Instruction:

NFC: The product is located in inside the external rearview mirror of the vehicle. Users can use the smart card or a registered smartphone approach the product to receive the NFC-related signals for analysis, and send it to the left body domain controller through CAN for processing, finally realize the control of the door switch.

FCC WARNING

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

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

To maintain compliance with FCC’s RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

EN

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1.This device may not cause interference.

2.This device must accept any interference, including interference that may cause undesired operation of the device.

FR

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1.L'appareil ne doit pas produire de brouillage;

2.L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.