# DIAS Automotive Electronic C234 NFC Reader Module User Manual

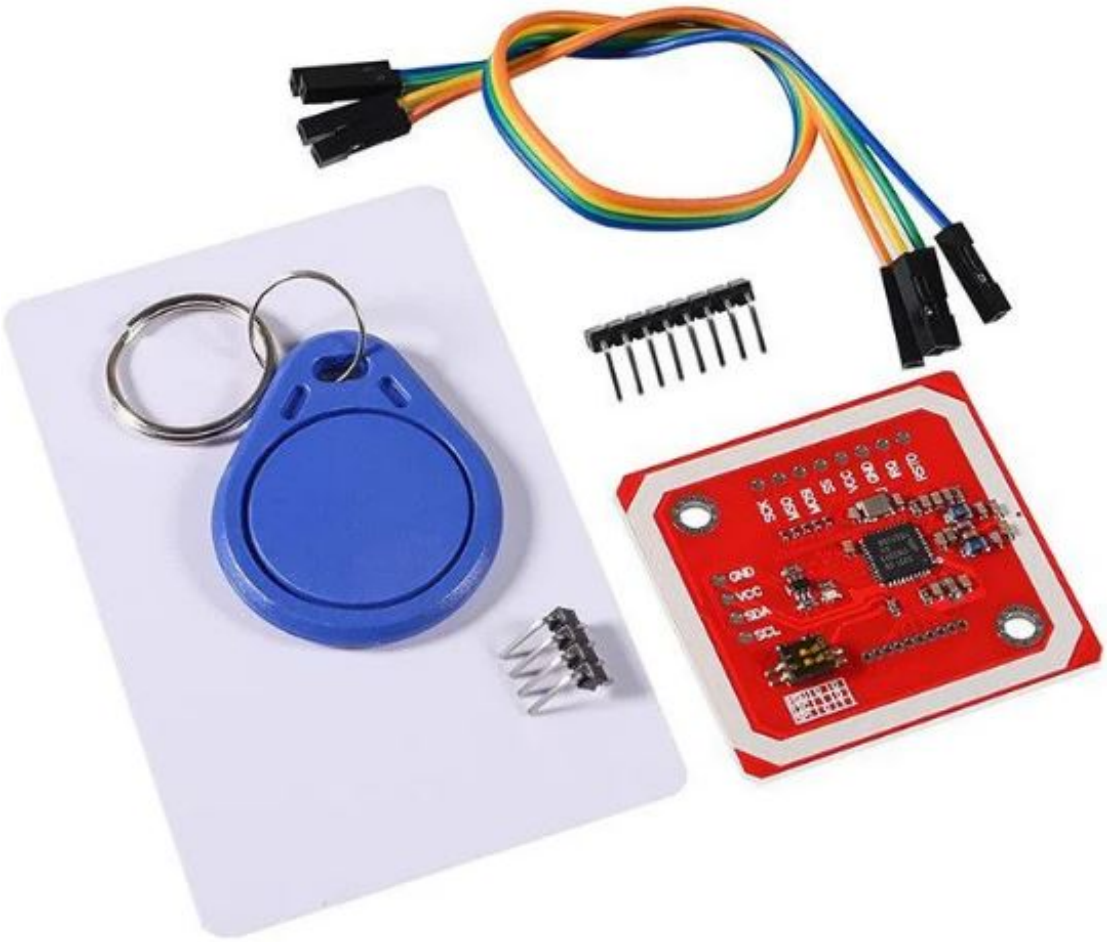


Contents



DIAS Automotive Electronic

## DIAS Automotive Electronic C234 NFC Reader Module




## Product Overview

### Product Introduction

In LPCD mode, the near field communication module can wake up the NFC device on the vehicle side when the NFC card or mobile phone is near, and then enter the standard Polling mode. When a matching card is detected, the polling mode is activated. LIN informs VKM and CAN informs BCM to open or close the door.

## Technical Specification

Product specifications are as follows

**Table: 1 1 Product specification parameter**

| | | | | |
|---|---|---|---|---|
| Product name | NFC Reader Module | | | |
| Product Features | Model | C234 | Dimension | 85×19×6mm |
| | Material | PC+ABS | Weight | <80g |
| | Power Supply | DC 6 16V | Waterproof class | IP6K8 |
| Processor | 32bit 120MHz | | | |
| Storage | RAM | 32KB | ROM | 512KB |
| External Interface | 1 LIN 1 KL30 1 GND | | | |
| Consumption | Detecting Period(30ms) : <0.45mA | | | |
| Ambient | Operating Temperature | -40 85℃ | Storage Temperature | -55 90℃ |
| Communication Mode | ISO/IEC 14443A/B/MIFIARE | | | |
| Digital Key Protocol | ICCE | | | |
| Operating Frequency | 13.56MHz | | | |

## Hardware Introduction

### Appearance Introduction

The dimensions of the NFC body are about 85 x 19 x 6mm, and the front and rear shells are affixed with double sided tape. The sides are LIN, ground, and power interfaces, as shown in Figure 2 1.

## Interface

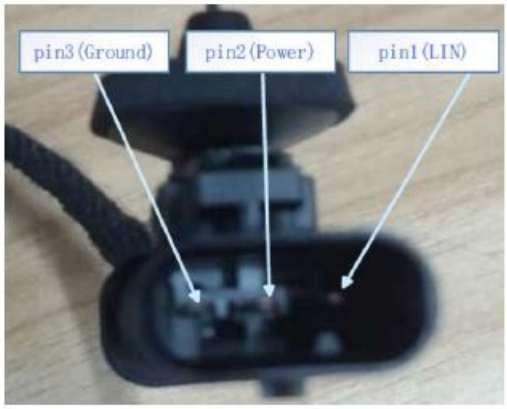



Figure 2-2 Interface

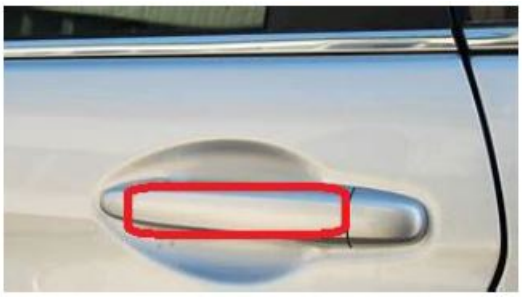
**Interface definition**

Tale 2 1 : Interface Definition

| SN | Name | Description |
|---|---|---|
| 1 | LIN | LIN signal |
| 2 | Power | Supply power KL30. |
| 3 | GND | GND |

## Assembly Introduction

The C234 is placed inside the door handle and do not require extra fixing. Figure 2 3 show the installation positions.



## Operation Instruction

The NFC valid card is placed near the NFC module, and the NFC module transmits information to the ECU with SE at the end of the car through LIN, and unlocks the car after the NFC card is certified.

**Setup Up**

Before the module can start normally, it is necessary to prepare a power supply, a valid NFC card, a wire harness, and a LIN communication tool. In addition to connecting the NFC reader module, the wiring harness also needs to connect to the LIN communicat ion tool. After the power supply is powered on, if the current is about 20mA, the NFC module is started. Figure 3 1 shows the following.

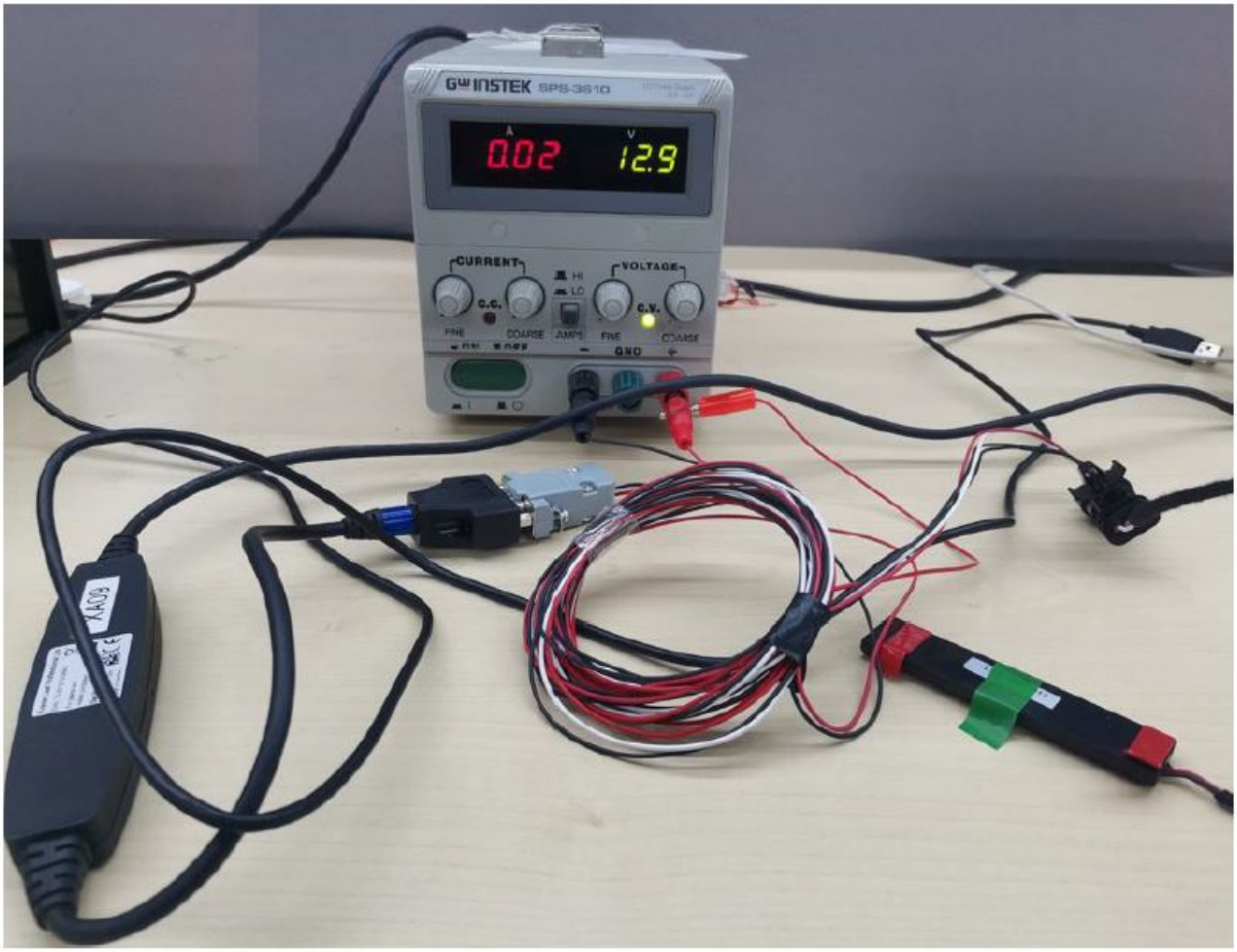



Figure 3-1Power On Setup

**Swipe Care**

Place a valid NFC card close to the NFC module, as shown in Figure 3-2.

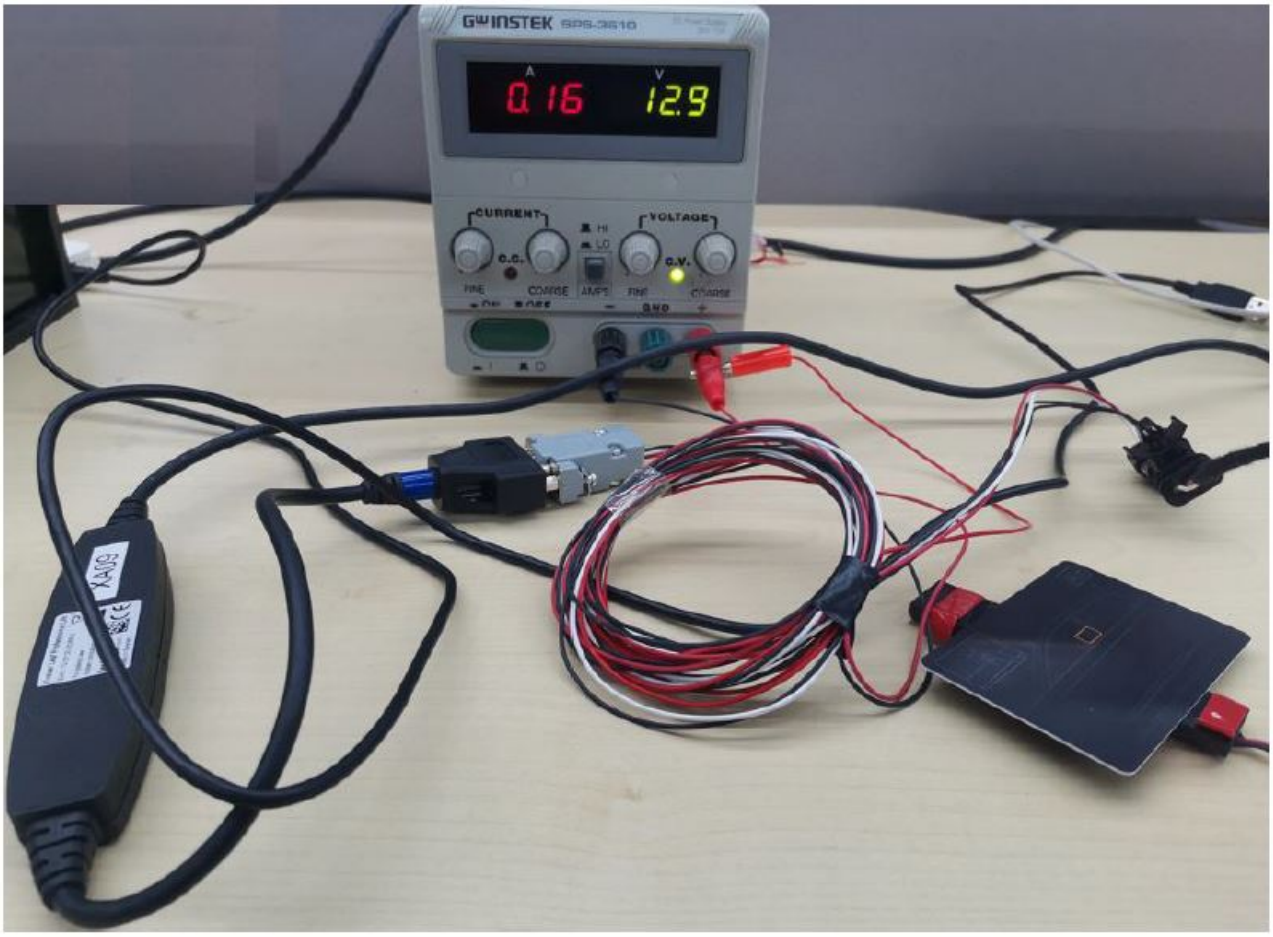



Figure 3-2 NFC Polling

## Query Version

### LIN Communication

- Connect the DB9 port of Kvaser Lin on the wiring harness, connect the USB port of Kvaser Lin on the PC, and power on the device. The port shown in Figure 3 3 is identified in the device manager on the PC.


Figure 3-3 Ports on the Kavser Lin device

- Click “Connect Device” in the LIN FLASH tool. “LIN Hardware Init OK” is displayed in Figure 3 4, indicating that

the Kvaser Lin device is normal.


Figure 3-4 Kavser Lin Normal

**Query Version**

- Click “App Version Number” in the LIN FLASH tool, and the message “62 f1 95 02 06 01 04 14 00.” is displayed in Figure 3 5. Indicates that the version information of F195 is read.


Figure 3-5 Query Version Normal

**FCC ID**

Table 3 1 FCCID

| Model | FCC ID |
|---|---|
| C234 | 2BBZ4NFCC234 |

## Product Informaiton

- DIAS Automotive Electronic Systems Co.,Ltd.
- Product: NFC Reader Module
- Model: C234

## FCC STATEMENT

Please take attention that changes or modification 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.

DIAS Automotive Electronic Systems Co.,Ltd.

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## Documents / Resources

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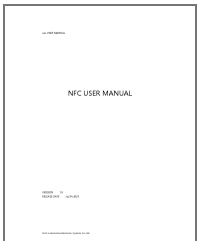
|   | DIAS Automotive Electronic C234 NFC Reader Module [pdf] User Manual<br>NFCC234, 2BBZ4NFCC234, 2BBZ4NFCC234, C234 NFC Reader Module, C234, NFC Reader Module, Reader Module, Module |