

ER859C2 Manual



1. Overview

The ER859C2 RFID Reader is based on the 13.56 MHz contactless (RFID) technology. The ER859C2 act as a coin acceptor. It can read the contactless smart IC cards, and translate the signal into pulse to the host. The result is same with what you are using on the coin acceptor. At the same time, you can connect one coin acceptor to the ER859C2 RFID Reader. It means that the ER859C2 RFID Reader can deal with not only RFID cards but also coins. It is easy to use and needs no change the coin system.

The RFID card has key authentication to protect the data. All the keys are encrypted and different. The card can be charged and used recycle. The user can just wave the RFID card to the ER859C2 antenna. It is easy and safe.

The ER859C2 RFID Reader has a LCD which can display the coin and card information.

The ER859C2 is an ideal cashless game and vending solution. It is a most efficient and economical solution.

2. Special Features

- Compatible with the protocol of coin acceptor
- Support RFID cards and coins
- Dual channels for cards and coins input
- Reading card distance: up to 5 cm
- LCD display
- Buzzer alarm

3. Technical Specifications

- RF frequency: 13.56MHz
- Power supply: 12VDC
- RFID Reader size: 120mm (L) x100mm (W) x33mm (H)
- Weight: 110g

Parameter	Min	Typ	Max	Units
Power supply	7	12	14	V
Icc	90	120	160	mA
Operating temperature	-10	25	+50	°C
Storage temperature	-20	25	+70	°C

Table 1

4. Typical Applications

- ✓ Game machine
- ✓ Vending machine
- ✓ Any machine which needs coin acceptor

Ordering Information	
Model No.	ER859C2
Name	RFID Reader
Phone	86-010-80128328
Email	info@ehuoyan.com
Web	http://www.ehuoyan.com/

5. Operation

5.1 Connection

Place the 4 screws in the picture 3 to mount the ER859C2 on the vending machine or game machine.



Figure 2



Figure 3

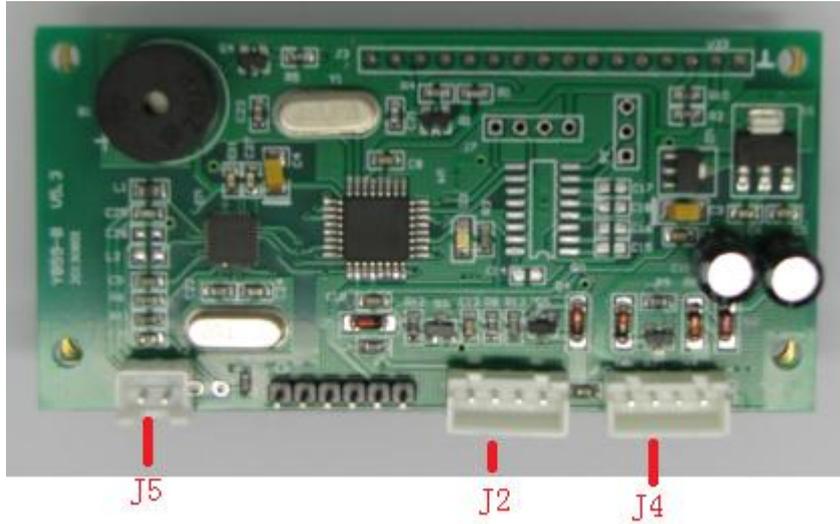


Figure 4

Connect the J2 to the coin acceptor(optional), connect the J4 to the vending machine or game machine RFID Reader. The J5 connect to the RFID antenna.

J2(from left to right)

1	2	3	4
DC+12V	COIN	GND	empty

Table 2

J4(from left to right)

1	2	3	4
empty	GND	COIN	DC+12V

Table 3

5.2 Size

Figure 5 is the size of the ER859C2 (unit: mm).

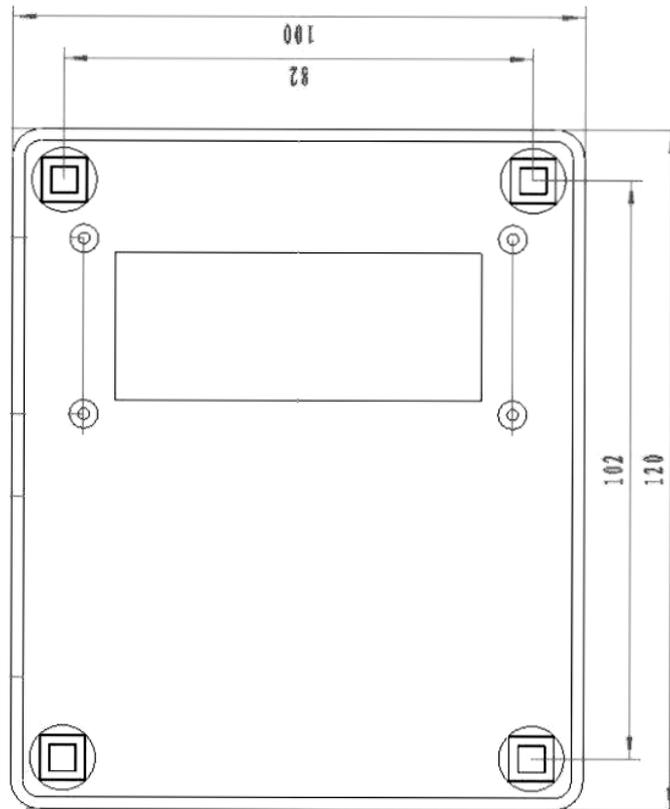


Figure 5

6. Settings

This RFID Reader needs to be set before working. It needs to be set the coin step and load the new key for the RFID cards.

To do this, you can run the **eCoin.exe** and write the settings into the SETTING card and then swipe it on the antenna to load the parameters into the ER859C2.

The default output pulse is 40ms on the coin pin of J4.

7. Display information

After power on and when the ER859C2 is ready, the backlight of the LCD will flash per second. The LCD will show as figure 6.



Figure 6

The first line means that it needs 2 coins (this number can be changed by SETTING card) to start the machine, the next line means that how many coins was put in. One coin will output one pulse to the machine through J4. If it works on FAST mode, it will cut all the coins(not more than 1000) in the card. This function is good for the game which needs many coins input at one time.

If you swipe the IC card, it will show as figure 7.



Figure 7

The number "98" of the line 2 means that the balance is 98 coins in the card after this action.

Figure 8 is the serial number of the ER859C2, you can see it when power on.

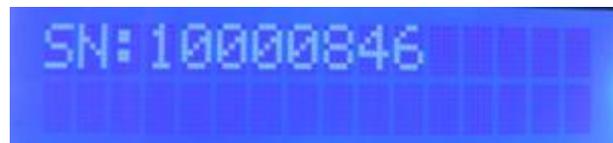


Figure 8

Figure 9 shows how the ER859C2 connecting. The coin acceptor is optional.

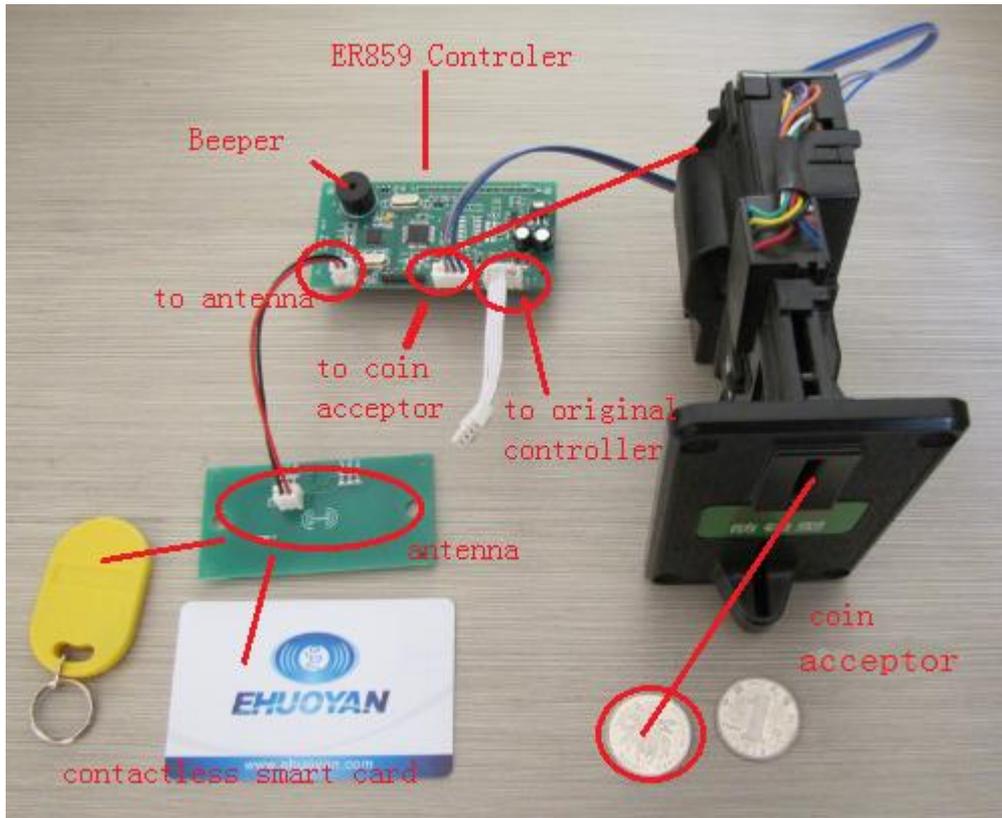


Figure 9

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