RFID User Manual

Kerchan Technology Co., Ltd

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Indexes

01 OVERVIEW:

RFID（Radio Frequency Identification），RFID is a method of data collection that involves automatically identifying objects through low-power radio waves. Data is sent and received with a system consisting of RFID tags, an antenna, an RFID reader, and a transceiver.

Support Mifare One S50，S70，FM11RF08. Low power consumption and wide voltage operation，working voltage 3～5.5V ，mini power consumption 10uA，all in one design，flexible use in any environment.

Flexible antenna design，able to read from 40mm maximum height（distance，round stickers can be customized）.

02 Appearance

03 Component

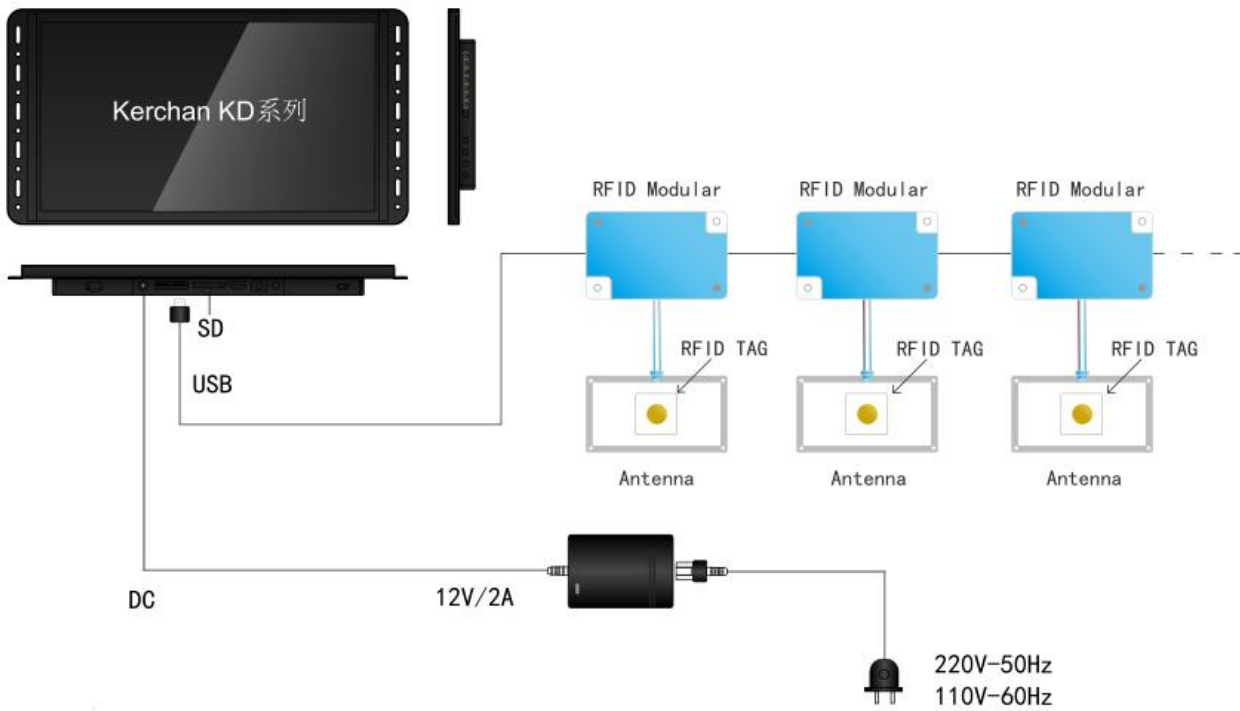| No	Name	Component	Quantity	unit	Remarks
1	RFID Module	RFID Reader	1	PCS	/
2	RFID Tag	S50，Diameter : 30mm	1	PCS	/
3	Cable	USB OTG Cable	1	PCS	/
4	Antenna	RFID Antenna	1	PCS	/

04 Parameter

1. Dimension：64*38*15mm；

2. Power Plug：USB OTG Cable ；

3. Sensor Distance： 0～40mm；

4. Communication Frequency ： 13.56MHZ；

5. Stickers ：Support Mifare One S50，S70，FM11RF08

05 Instruction

RFID Connection Instruction

RFID application:

1. After powering on the screen, please plug the USB Cable into the screen USB port and plug the mini-USB into the RFID module input port；

2. Put the antenna under the sensing area position

3. One RFID tag is for one RFID module.

4. Don't put the antenna close to any metal products.

5. There are three kinds lighting on RFID，green means read successfully，white means out of the sensor range，red means data error；

6. Multiple modules can be connected by same mic-USB/ mini- USB cable ；

RFID Software Instruction：

1. Install the software (Ksmart and Mediaplayer) first；

2. Create a folder in memory card ，called "adplayer". Then create two folders inside,called "0" and "1". Video in folder "0" is for default video. Folder "1" is for RFID video, then name the videos related to sticker 1 "PU001" sticker 2 "PU001" as following.

3. Install the USB or SD card when the screen is playing, the video will be auto-copied into internal memory.

06 Gesture recognition instructions

07 Cautions

Please shut down the power if below situation happened；

1. Noise and Bad Smell from RFID；

2. Cable Burnt or Broken；

3. RFID Broken；

4. Liquid Spread on RFID；