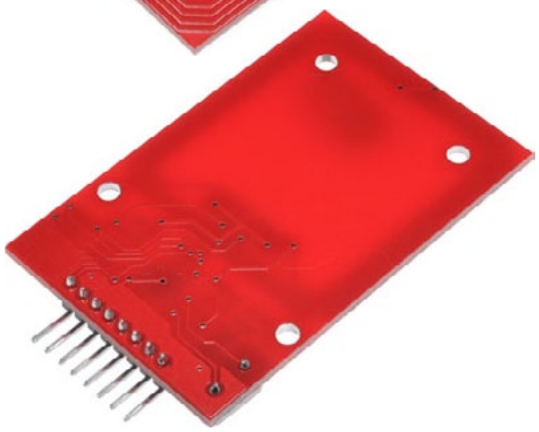
ARD 2 **Arduino Compatibles**
Controllers, Shields, Modules & Sensors

Arduino RFID Reader Module with Keytag & Card

ARD2-2100

- **Enable an Arduino to read RFID tags**



Description

An ARD2 Arduino-compatible RFID reader module with keytag and card. Perfect for DIY electronics projects, this module will allow your Arduino to read RFID objects such as the included keytag and card. From there the only limit is your imagination – for example, you could build a lock for a door that will only open when the Arduino detects a certain RFID code.

Specifications

Voltage	3.3VDC
Current	13–26mA / DC 3.3V
Idle Current	10–13mA / DC 3.3V
Sleep current	<80uA; Peak current: <30mA
Operating Frequency	13.56MHz
Supported card types	S50, S70, UltraLight, Pro, Desfire
Operating temperature	-20–80°C
Storage temperature	-40–85°C
Relative Humidity	5%–95%
Data Transfer Rate	Max. 10Mbit/s
Dimensions	66mm (L) x 40mm (W) x 8mm (H)
Mounting Hole Diameter	3mm
Weight (Module)	8g

Pinout

Module	***Arduino Uno R3***	***Function***
VCC	3.3V	Power Input
RST	Pin 9	Reset
GND	GND	Ground Connection
MISO	Pin 12	Master In Slave Out
MOSI	Pin 11	Master Out Slave In
SCK	Pin 13	Serial Clock
NSS	Pin 10	Slave Select
IRQ	N/C	Not Required

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Test Code

```
#include <SPI.h>
#include <MFRC522.h>

#define RST_PIN         9
#define SS_PIN          10
MFRC522 mfrc522(SS_PIN, RST_PIN);

void setup()
{

SPI.begin();
mfrc522.PCD_Init();
}

void loop() {
RfidScan();
}

void dump_byte_array(byte *buffer, byte bufferSize) {
for (byte i = 0; i < bufferSize; i++) {
Serial.print(buffer[i] < 0x10 ? " 0" : " ");
Serial.print(buffer[i], HEX);
}
}

void RfidScan()
{
if ( ! mfrc522.PICC_IsNewCardPresent())
return;

if ( ! mfrc522.PICC_ReadCardSerial())
return;
dump_byte_array(mfrc522.uid.uidByte, mfrc522.uid.size);
}
```

Source: http://www.theengineeringprojects.com/2015/08/interfacing-rfid-rc522-arduino.html

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