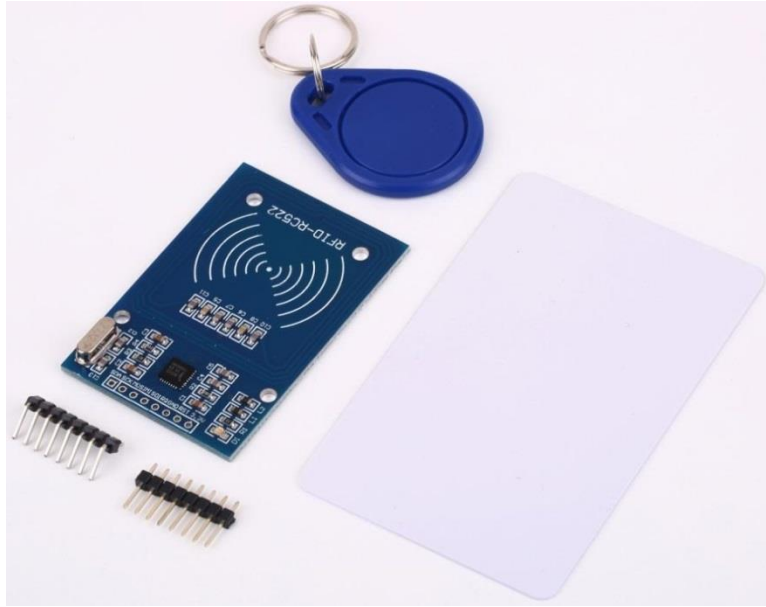


# RFID RC522

## Descrizione

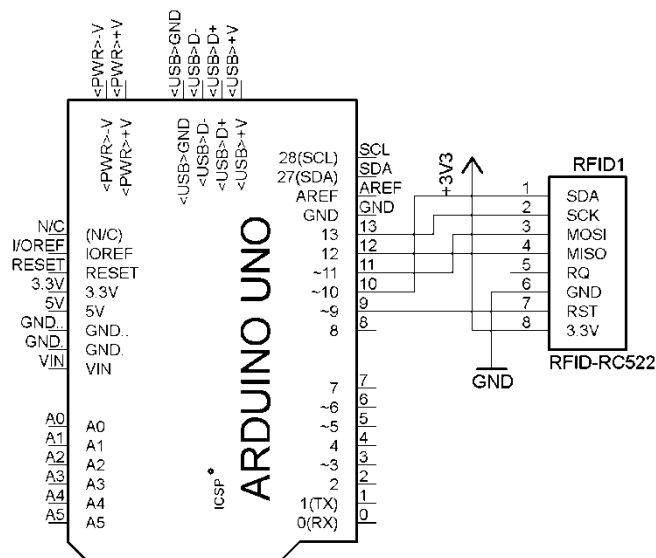
Questo dispositivo permette di leggere le schede RFID a 13.56MHz. Ogni tag RFID contiene un a stringa di 8 caratteri.



## Componenti

- RFID RC522
- Tag RFID
- Arduino

## Schema elettrico



## Tabella connessioni

RFID	Arduino
SDA	Pin 10
SCK	Pin 13
MOSI	Pin 11
MISO	Pin 12
IRQ	Non connesso
GND	GND
RST	Pin
3.3V	3.3V

## Codice di esempio

```
#include <SPI.h>
#include <MFRC522.h>
/*modifico i pin dei ss e rst*/
#define SS_PIN 10
#define RST_PIN 9

MFRC522 mfrc522(SS_PIN, RST_PIN); // Create MFRC522 instance.

long previousMillis = 0;
long interval = 10;

void setup() {
  Serial.begin(9600); // Initialize serial communications with the PC
  SPI.begin(); // Init SPI bus
  mfrc522.PCD_Init(); // Init MFRC522 card
  Serial.println("Avvicina il tag RFID");
  Serial.println("In attesa di lettura...");
}

void loop() {
  unsigned long currentMillis = millis();
  if(currentMillis - previousMillis > interval) {
    previousMillis = currentMillis;
    // Look for new cards
    if ( ! mfrc522.PICC_IsNewCardPresent() ) return;

    // Select one of the cards
    if ( ! mfrc522.PICC_ReadCardSerial() ) return;

    String uid_s = "";
    if (!mfrc522.PICC_IsNewCardPresent() && !mfrc522.PICC_ReadCardSerial()) {
      for (byte i = 0; i < mfrc522.uid.size; i++) {
        String uid_a = String(mfrc522.uid.uidByte[i] < 0x10 ? "0" : "");
        String uid_b = String(mfrc522.uid.uidByte[i], HEX);
        uid_s = uid_s+uid_a+uid_b;
      }
    }
    Serial.print("RFID UID rivelato --> ");
    Serial.println(uid_s);
    Serial.println("");
    Serial.println("In attesa di lettura...");
  }
}
```

## Link utili

Libreria MFRC522: <https://github.com/miguelbalboa/rfid>