

Big Push Switch

RFID SOCKET

NRF24L01 socket

i2c device input

GND 5V SDA SCL

DS18B20 sensor socket

Relay

LED

Buzzer

PIR motion sensor socket

IR Remote socket

N.O. COM N.C.

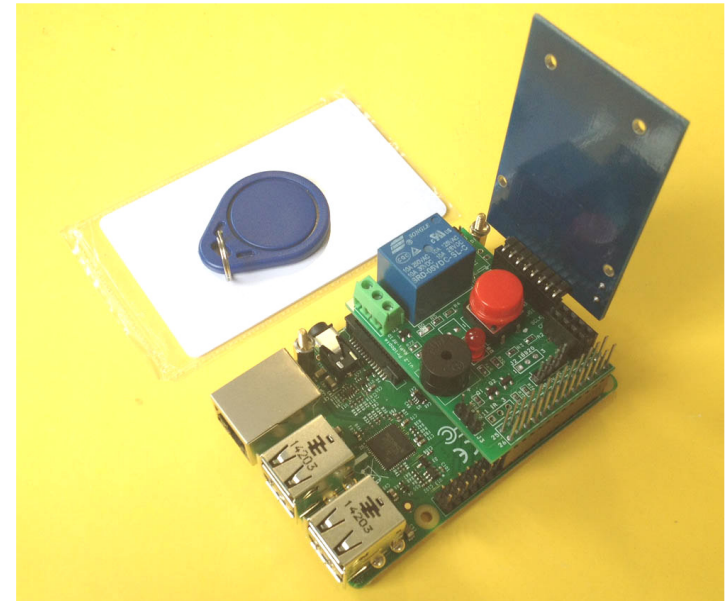


1. provide 1 buzzer (GPIO18)
2. provide 1 Big Push Switch (GPIO27)
3. provide RFID socket (SPI signal) / NRF24L01 socket (SPI signal)
you can choose use RFID or NRF24L01 (both use SPI signal)
4. Provide 1 extra i2c device input port, for 5V device (with Logic Level converter)
5. provide DS18B20 temperature sensor socket (GPIO4)
6. provide IR Receiver sensor socket (GPIO23)
7. provide IR PIR motion sensor socket (GPIO22)
8. provide one Relay (GPIO17)

Demo program download from our web site

Package Content

- 1x Rs-Pi RFID Reader
1x S50 Fudan Card 1x Key Chains
1x 1 Relay GPIO Board
1x manual



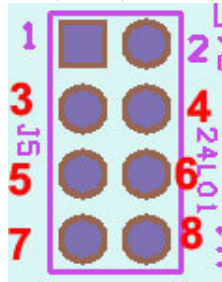
RFID socket

From pin1 (SDA,SCK,MOSI,MISO,IRQ,GND,RST,3V3



NRF24L01 socket

From pin1 (GND,3V3,GPIO25,CE0,SCLK,MOSI,MISO,X)



software support

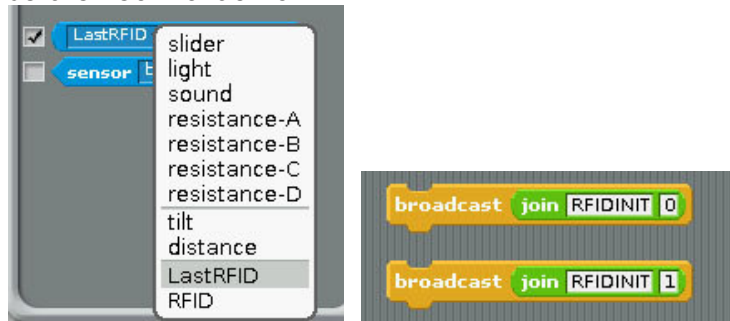
Pi_Scratch interface software download from our web site

<http://www.pridopia.co.uk/rs-pi-set-scratch.html>

Install tools for RFID kit in Raspberry Pi , in our Pi_Scratch_v268 folder" Installer"

sudo python RFID-Installer.py -- if you already install previous Pi_Scratch ver already. first time user, use **sudo python Install.py**

Scratch control demo

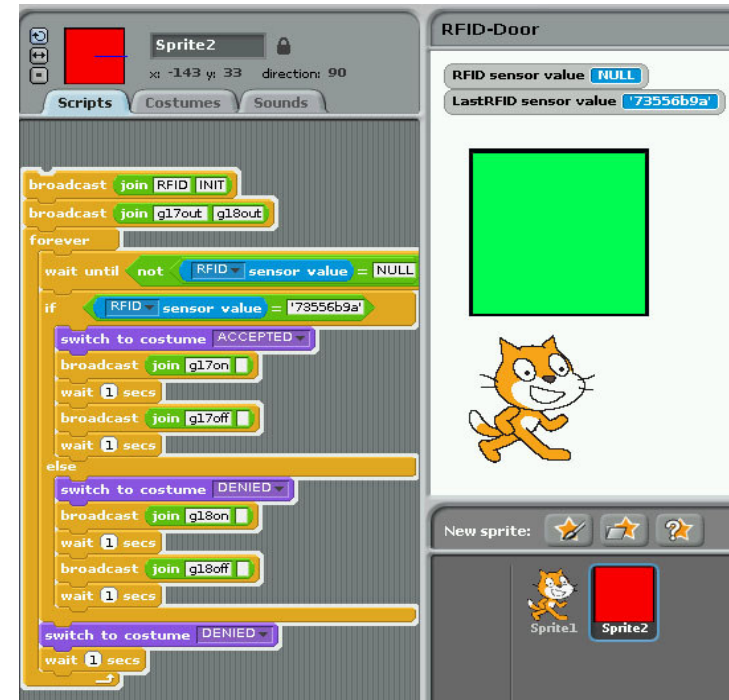


1) Command "RFID"+"INIT"+"0" or "1"

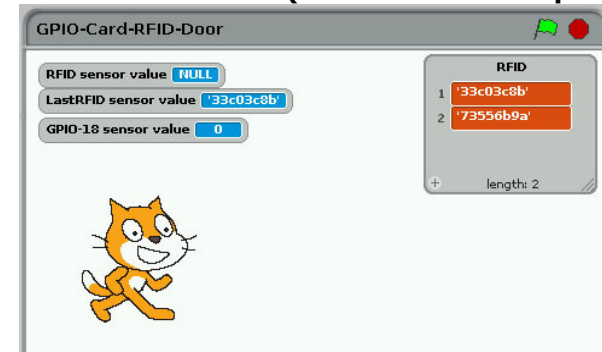
will initial SPI signal to active RFID Reader

2) you will see "LastRFID" & "RFID" in Sensors

Scratch demo read RFID and GPIO output

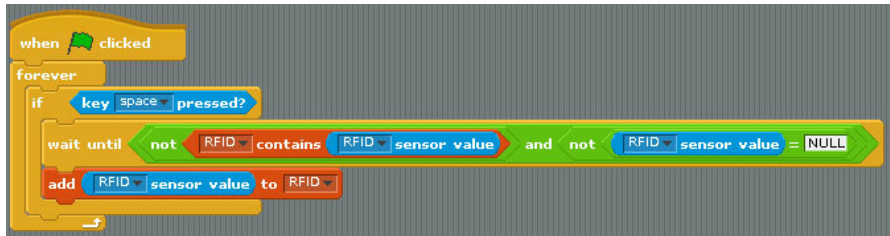


scratch demo code (read card and compare with database)

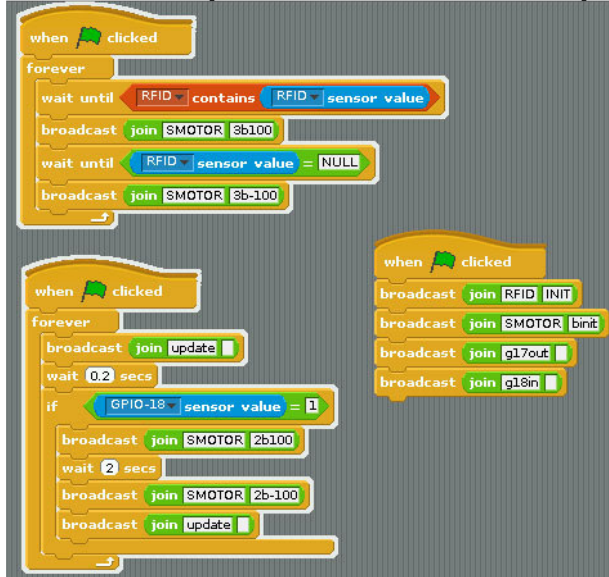


ADD RFID Card into data base

Press "space" key then scan your RFID card



Active with Step Motor and GPIO Switch input



scratch demo file

[RFID Door.sb](#) [RFID Reader.sb](#) [GPIO-Card-RFID-Door.sb](#)

Download GPIO library

<https://pypi.python.org/pypi/RPi.GPIO> GPIO library

GPIO library - RPi.GPIO-0.5.6.tar.gz

Install python , library and run the test program

```
# sudo apt-get install python-dev
```

```
# wget http://www.pridopia.co.uk/pi-pgm/RPi.GPIO-0.5.6.tar.gz
```

```
# gunzip RPi.GPIO-0.5.6.tar.gz
```

```
# tar -xvf RPi.GPIO-0.5.6.tar
```

```
# cd RPi.GPIO-0.5.6
```

```
# sudo python setup.py install
```