

# Octopus Gesture Sensor

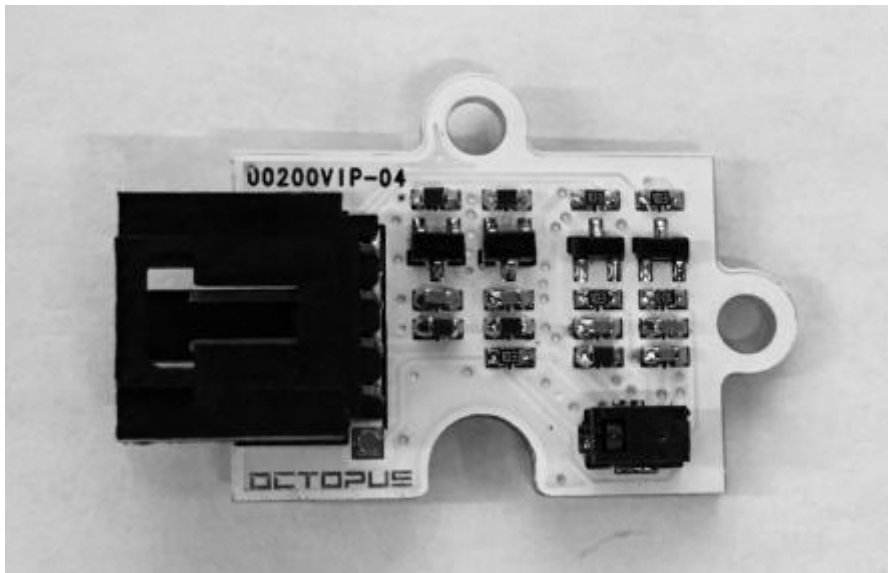
## User Guide



[www.electfreaks.com](http://www.electfreaks.com)

## 1. Introduction

Octopus Gesture Sensor is PAJ7620U2 that integrates gesture recognition function with general I2C interface into a single chip. It can recognize 9 basic gestures ,and these gestures information can be simply accessed via the I2C bus.



(Figure 1)

## 2. Hardware&Software

### Hardware:

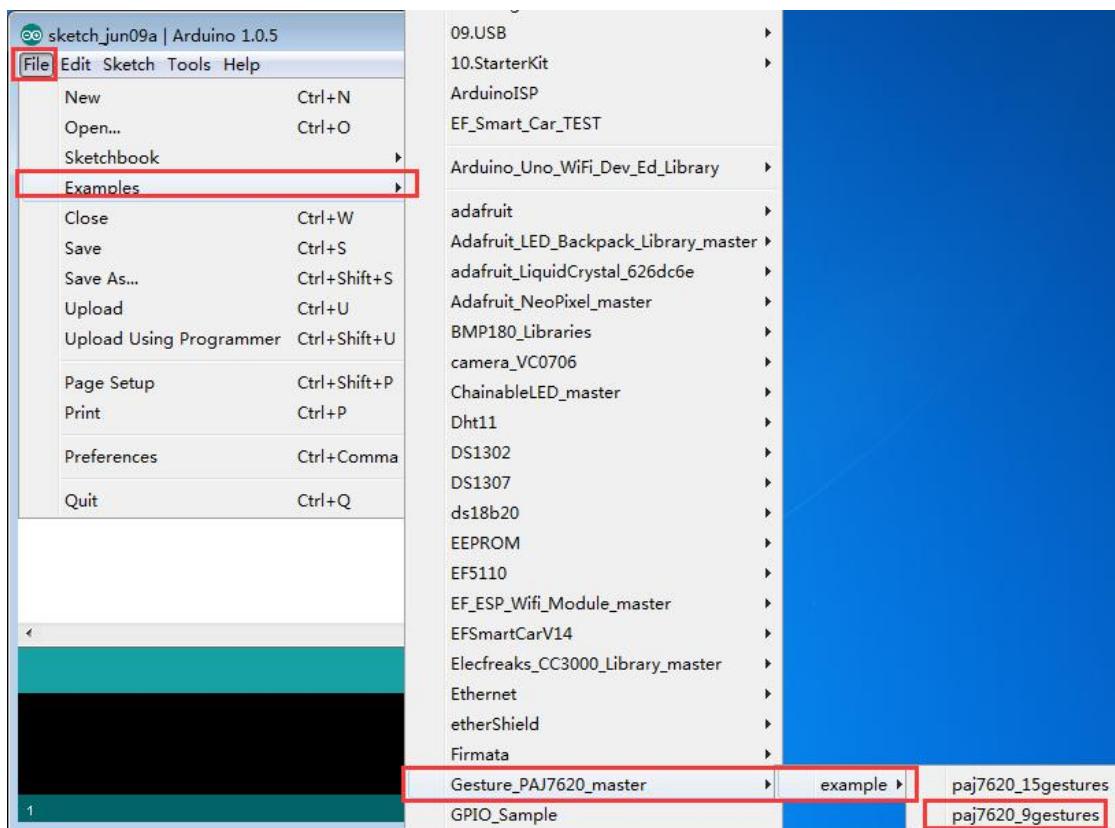
- ✧ Octopus Gesture Sensor
- ✧ Arduino UNO mainboard
- ✧ 4P Jumper wire
- ✧ Micro USB cable

### Software:

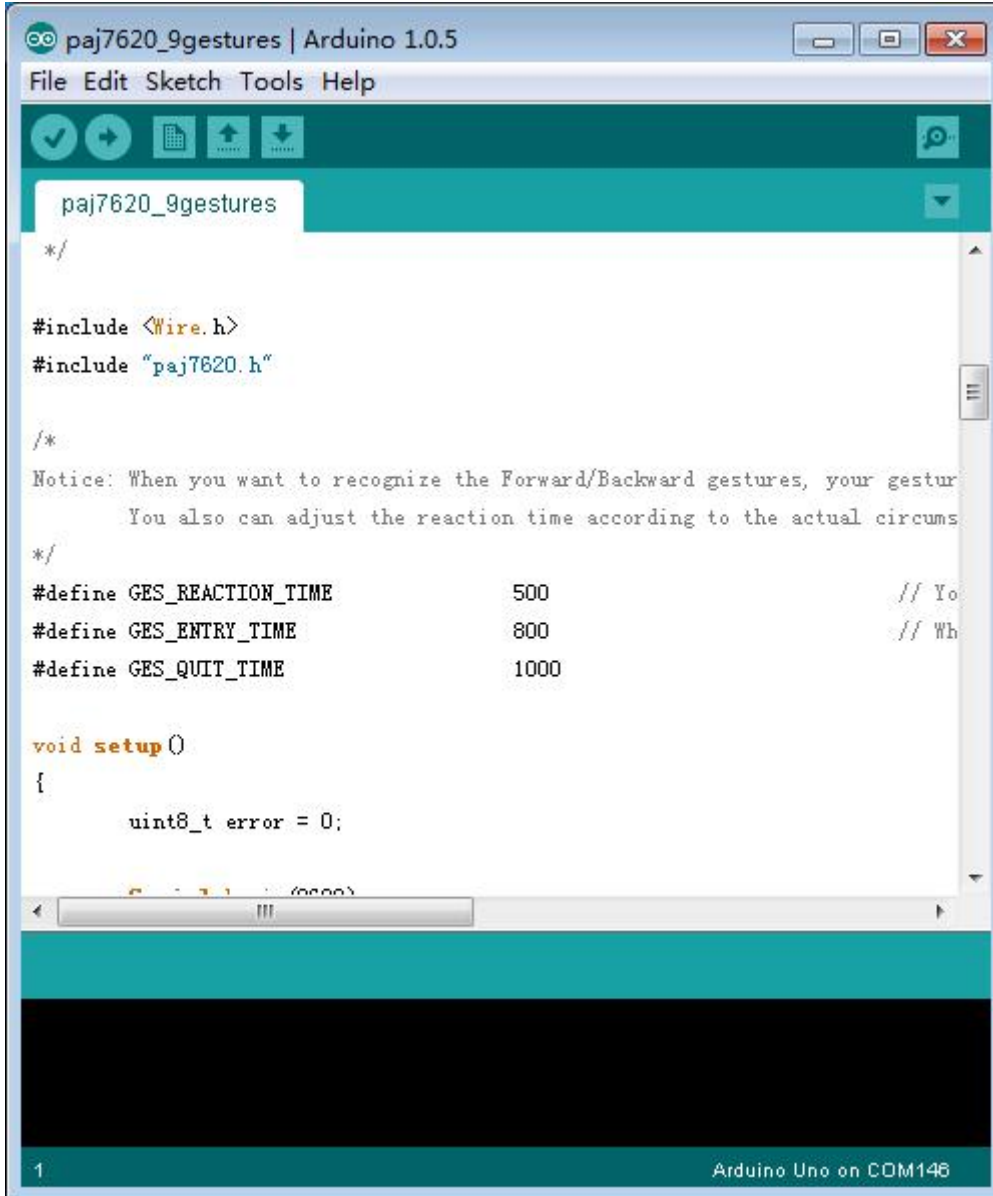
- ✧ Gesture\_PAJ7620\_master
- ✧ Arduino IDE(X.X.X)

## 3. Test Part

1. On our website Wiki, find "OCTOPUS Brick - > OCTOPUS Gesture Sensor", double click and find the "Paint code", then click to download the test code.
2. Unzip the "Paint code" and put the "Gesture\_PAJ7620\_master" file into the "Libraries" folder in the Arduino IDE installation directory.
3. Open the Arduino IDE and select the burn program as shown here.



(Figure 2)



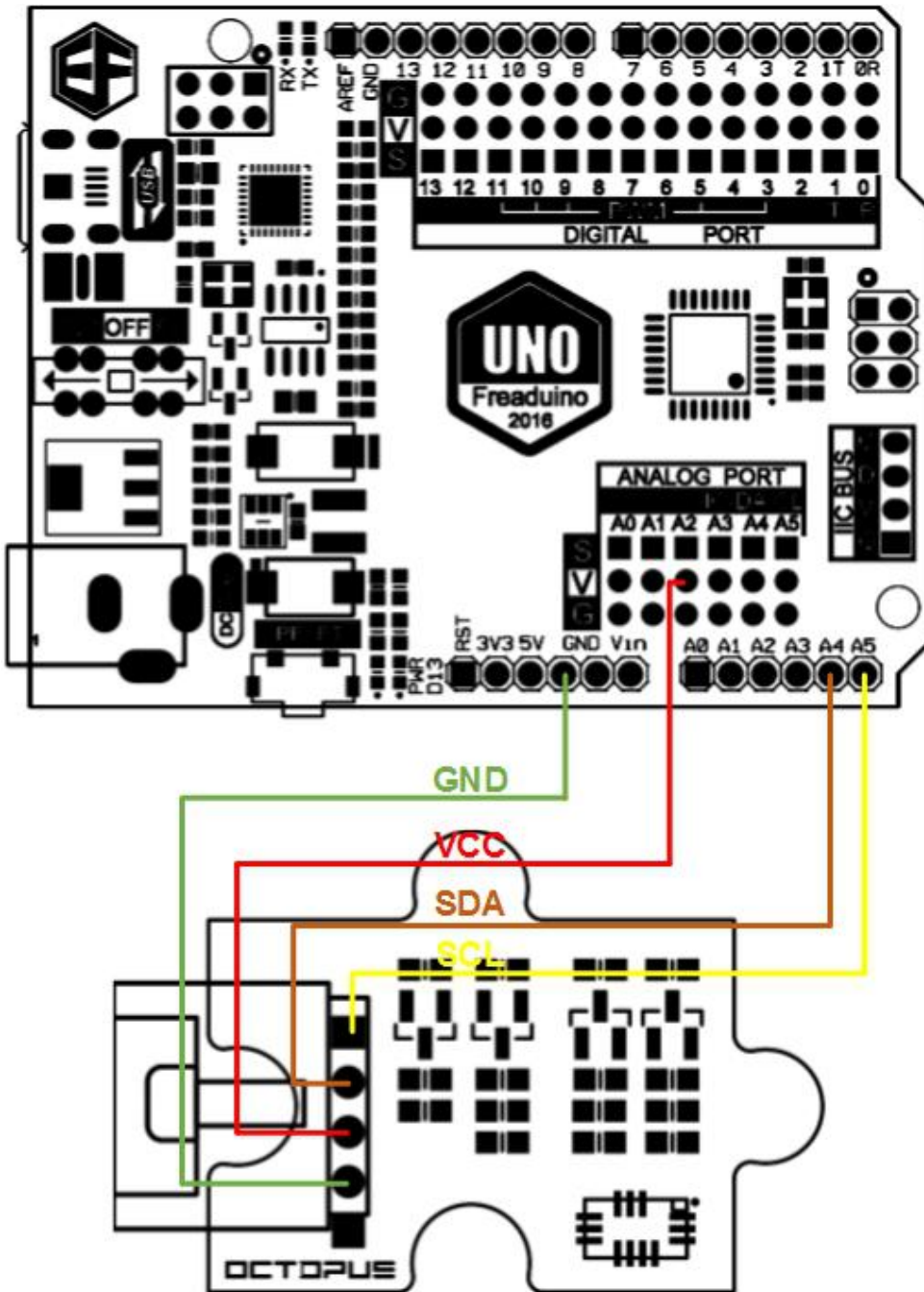
```
paj7620_9gestures | Arduino 1.0.5
File Edit Sketch Tools Help
paj7620_9gestures
*/
#include <Wire.h>
#include "paj7620.h"

/*
Notice: When you want to recognize the Forward/Backward gestures, your gesture
        You also can adjust the reaction time according to the actual circumstances
*/
#define GES_REACTION_TIME      500           // You
#define GES_ENTRY_TIME        800           // Wh
#define GES_QUIT_TIME          1000

void setup()
{
    uint8_t error = 0;
    (0000)
1 Arduino Uno on COM146
```

(Figure 3)

4. Through the Micro USB cable connects Freaduino UNO with the computer, then the Octopus with 4P dupont line Gesture Sensor with UNO connections such as (figure 4), 4P dupont line connected to the UNO line sequence according to the (table 1) in the description of the connection.



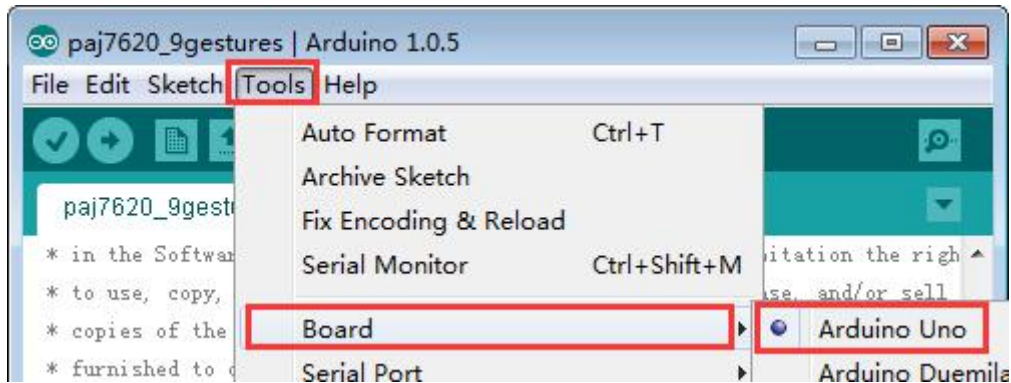
(Figure 4)

### Octopus Gesture Sensor and Arduino UNO Connection

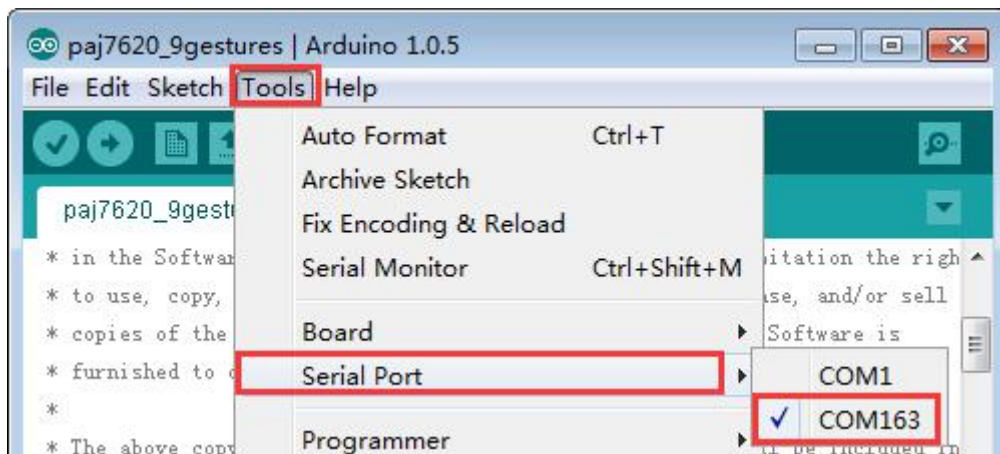
Octopus Gesture Sensor	Arduino UNO
GND	GND
V	+5V
SD	A4
SC	A5

(Table 1)

5. Back to IDE interface, select the COM port and the UNO to burn, and burn the code. The following picture shows:

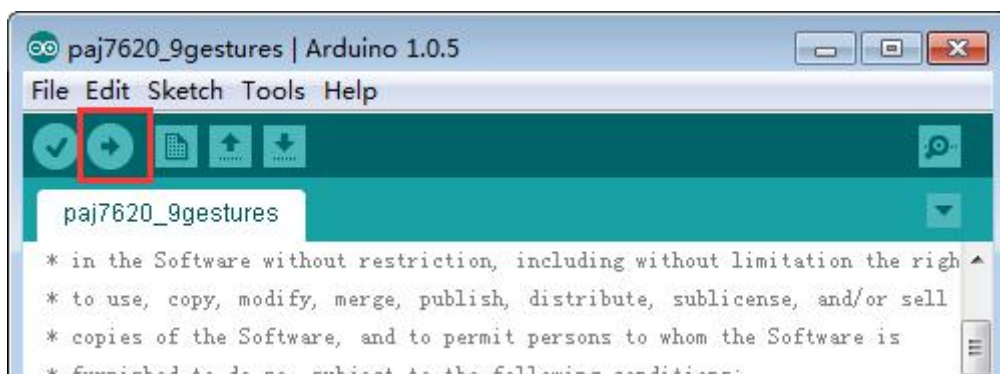


Select the main board of the burn - Arduino UNO



Select COM

Please note : Different computers have different COM ports, please use COM port identified by your computer.



Click the arrow to burn the code