

# Hand Gesture Module

## Hardware

The [XC3742](#) hand gesture module uses a PAJ7620 chip with an on-board 5v regulator. It is provided without the headers soldered on, which can be replaced by using cables. (Tip: if you're not comfortable with soldering, try our [XC3754 Christmas tree soldering tutorial](#))

### XC3742 Pin UNO compatible connections

VCC	5V
GND	GND
SCL	A5 (SCL)
SDA	A4 (SDA)
INT	Any digital interrupt pin, <i>not needed</i> .

## Source code

We use the "Gesture PAJ7620" Library by *Seeed Studio*.

```
#include <Wire.h>
#include <paj7620.h>

void setup()
{
  Serial.begin(9600);

  short error = paj7620Init();
  if (error)
  {
    Serial.print("sensor error 0x");
    Serial.println(error, HEX);
    for (;;);
  }
  Serial.println("Go");
}

void loop()
{
  //see the examples for more complete code
  char data = 0;
  paj7620ReadReg(0x43, 1, &data); // Read Bank_0_Reg_0x43/0x44 for gesture result.
  if (data == GES_LEFT_FLAG)
  {
    Serial.println("Forward");
  }
  else if (data == GES_RIGHT_FLAG)
  {
    Serial.println("Backward");
  }
  else
  {
    paj7620ReadReg(0x44, 1, &data); //wave is stored in another register
    if (data == GES_WAVE_FLAG)
    {
      Serial.println("wave");
    }
  }
  delay(100);
}
```

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