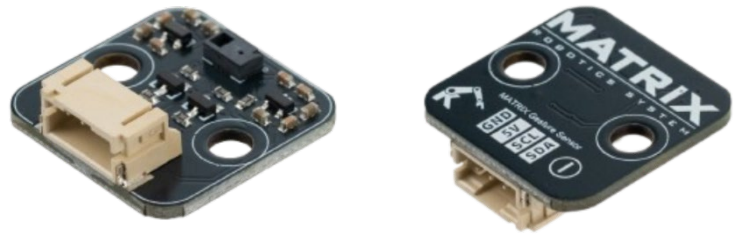# 1.Feature

· Faster, more accurate..
· Low Power Consumption.
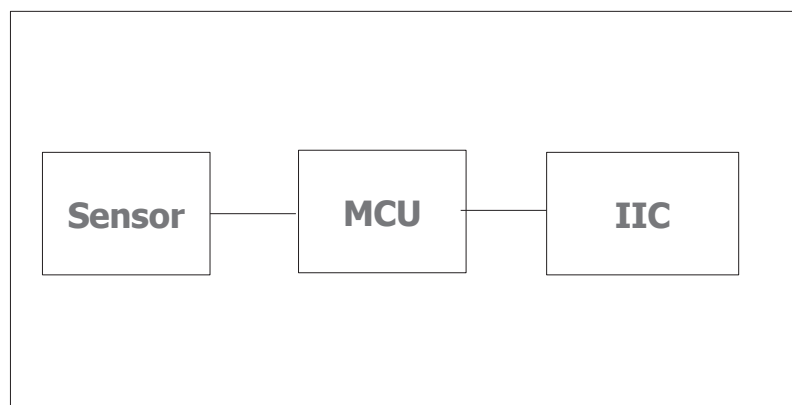· Work in low-light .

2. Application

· Robot interaction.
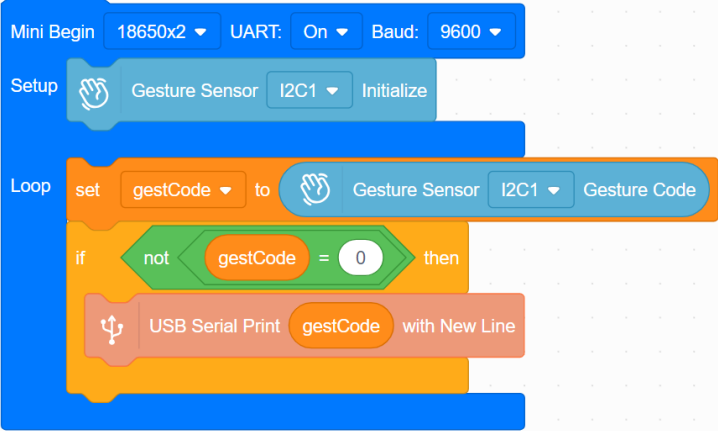· Gesture light control

3. Introduction

Gesture Sensor (PAJ7620U2) is touchless 3D gesture recognition function with general I2C interface into a single chip.

It can recognize 9 gestures including move up, move down, move left, move right, etc. with a simple swipe of your hand from 5-15cm.

4. Block Diagram
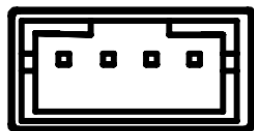
4.Example Code of Block and C++


```cpp
#include "MatrixMiniR4.h"

float gestCode;

void setup()
{
  MiniR4.begin();
  MiniR4.PWR.setBattCell(2);
  Serial.begin(9600);
  MiniR4.I2C1.MXGesture.begin();
}

void loop()
{
  gestCode = MiniR4.I2C1.MXGesture.getGesture();
  if(!(gestCode == 0))
  {
    Serial.println(gestCode);
  }

}
```

· After download program into controller, open Serial Monitor to observe.

5. Hardware Spec

· Voltage: 3.3v – 5v

· Current: 4.6mA - 9.2mA

JST PH2.0

Pinout-I2C			
NO.	Name	I/O	Description
1	SDA	I/O	Serial data line.
2	SCL	I	Serial clock line.
3	VCC	O	Supply voltage.
4	GND	-	Supply ground.

· For More technical info of Sensor, Please visit manufacturer datasheet.