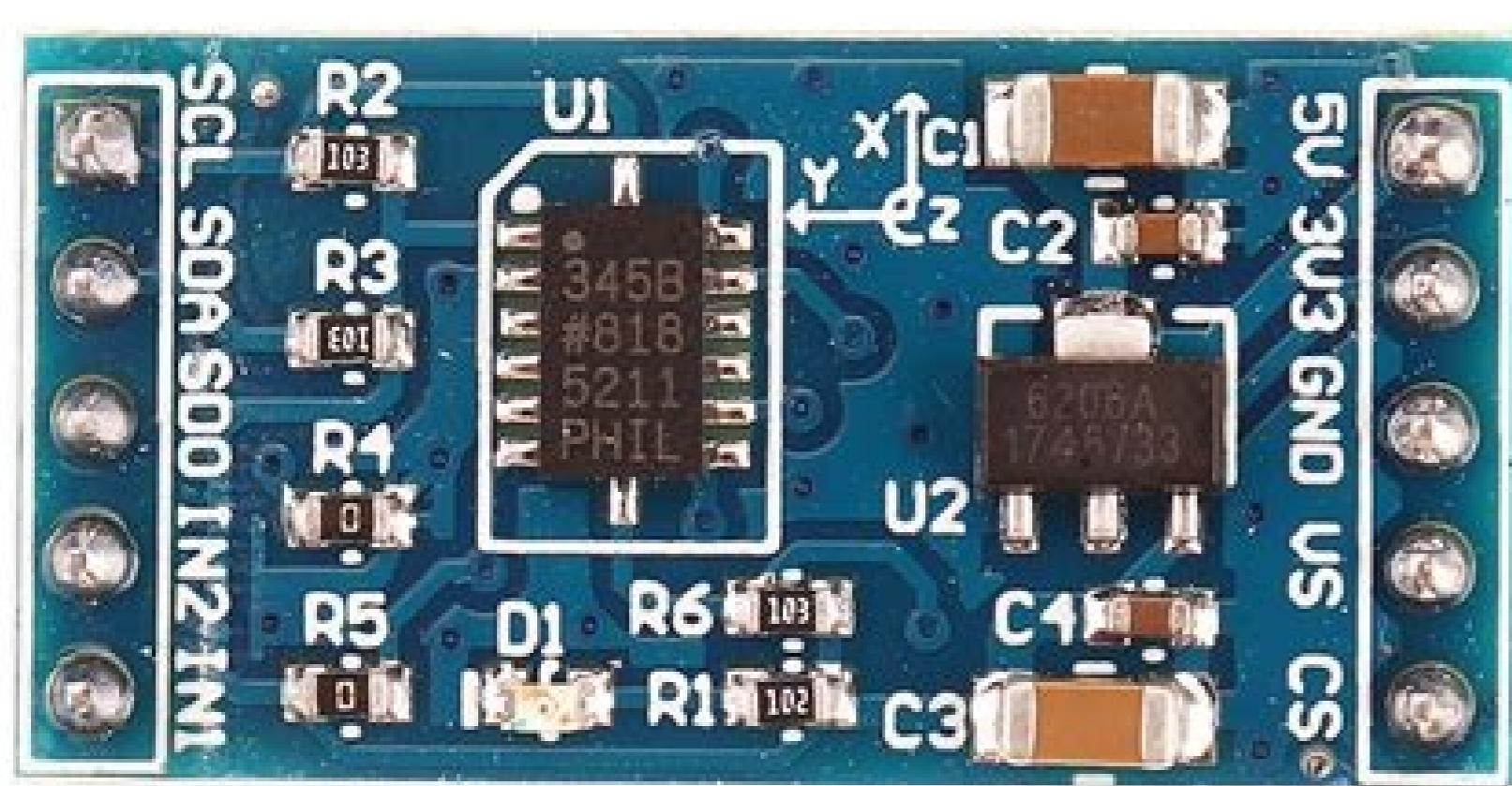
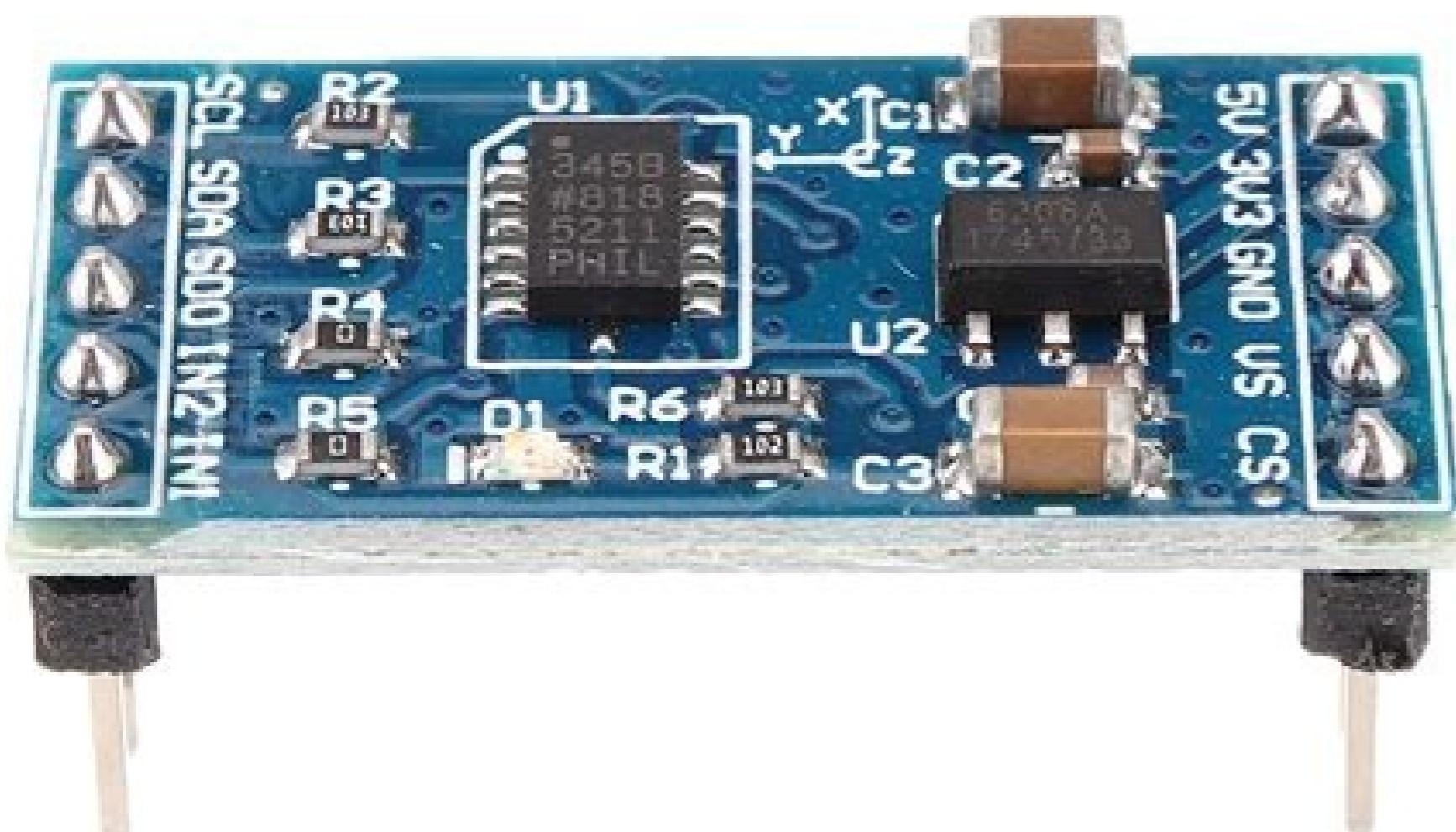
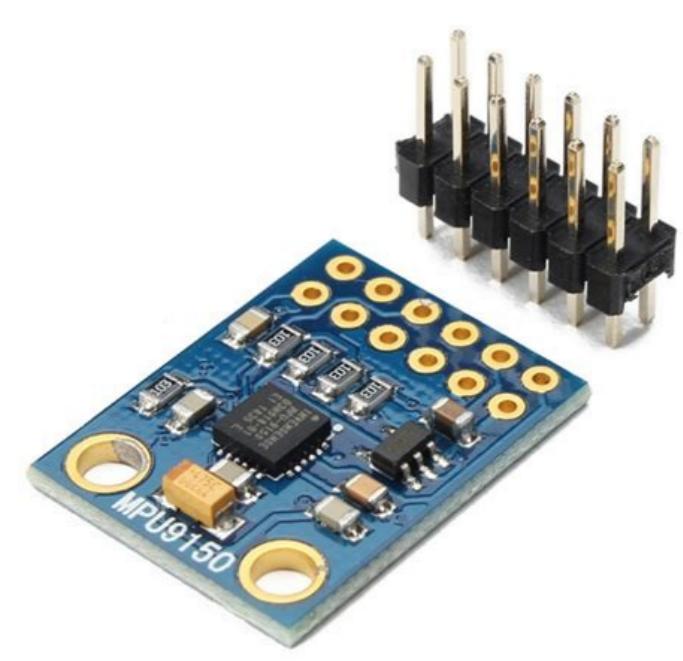
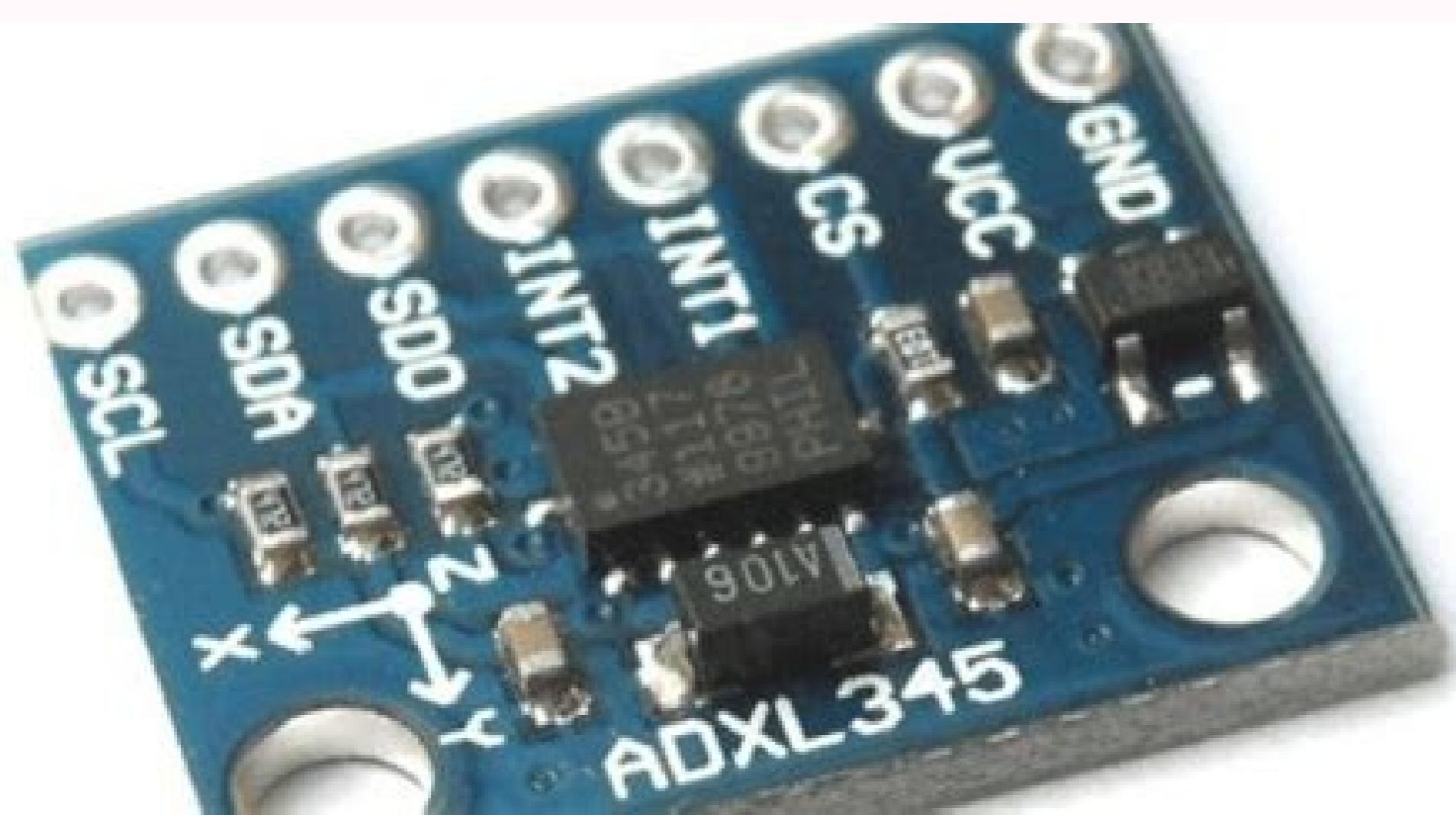


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Connect the accelerometer VCC to the analog PIN A5 of the Arduino card. Schematic: Here are the PIN links for the above configuration: Breakout Board Pinself-Testz-Axisx-AxisxvxDardUino Pinnone (Unconnected) Analog Input 1Nalog Input 2Analog Input 3GND5vpilease, keep in mind that some accelerometers use 3.3V power and may be damaged by 5 V. The crystalline microscopic structure in it creates stress tension. Connect the accelerometer X to the analog PIN A1 on the Arduino card. If necessary, A0 → D14, A1 → D15 and cos θ on.const int Groundpin = 18; const int PowerPin = 19; Set PIN 19 (A5) as high and PIN 18 (A4) as low provides 5V with a few millamps needed from the accelerometer to work. Pinmode (Groundpin, output); Pinmode (PowerPin, output); digitalWrite (Groundpin, Low); digitalWrite (PowerPin, High); This solution allows Sparkfun breakout cards to be directly connected to your Arduino card. This means that data will be read and received on the serial port. To read this, everything there² of which → l'analog ead () Function is required. Hardware ReportArduino BoardAdxl3xx AccelerometerCircuitThe accelerometer uses very little current, so it can be connected to the card and works directly from the output from the digital output pins. If we keep the board in a different position, the direction of the three axis will also change. Note: Some accelerometers operate at 5 V and some at 3.3 V. → because the accelerometer operates at the minimum current. The lightweight rest accelerometer the half its maximum analog voltage. How does the accelerometer work? The acceleration → defined as the change of speed or speed time. on the laptop, which the hard drives from damage. Connect the accelerometer's GND to the A4 analog PIN on the Arduino board. We can measure the the voltage on the Arduino. For example, ADXL320, ADXL322, ADXL321, ADXL335, etc. The three analog pins will be connected to the cc, Self-Test, and the Ground pin. The Arduino UNO has six analog pins. Here, 1.0G = of 9.8m/s^2 where, G is the acceleration due to earth gravity. Different boards may be connected to standard 5V - or 3.3V -and GND pins. It can determine the movements (uphill, etc.) of the object. The accelerometer interprets this voltage. Let's start the project. Consider the below code:

```
const int GND = A4; const int PowerPIN = A5; const int pinOfX = A3; const int pinOfY = A2; const int pinOfZ = A1; void setup() { Serial.begin(9600); pinMode(GND, OUTPUT); pinMode(PowerPIN, OUTPUT); digitalWrite(GND, LOW); // configuring the GND pin as LOW digitalWrite(PowerPIN, HIGH); // configuring the power pin HIGH (5V/3.3V) } void loop() { // It prints the values of the sensors Serial.print(analogRead(pinOfX)); // print a tab between values: Serial.print("\t"); Serial.print(analogRead(pinOfY)); Serial.print("\t"); Serial.print(analogRead(pinOfZ)); Serial.println(); // It delays before next reading delay(100); }
```

Next TopicUltrasonic distance sensor Gravity Sensor per ADC (Analog to Digital Converter) unit is: It is because the sensors need 3.3V to operate. In this project, we are going to work with the ADXL335 accelerometer. The sensitivity of ADXL335 accelerometer is: $s = 0.33\text{V/G}$. Hardware Required The components required for the project are listed below: 1 x ADXL335 accelerometer 1 x Arduino NO R3 Principle We can directly plugged-in the accelerometer onto the Arduino. This is accomplished using them as Digital I/O pins 18 and 19. Connect ST of the accelerometer to analog pin Ao of the Arduino board. The value will be read from the series of accelerometer and received in the Arduino IDE's serial monitor. The motion sensors are present inside the accelerometer. The other three analog pins will be used to read the accelerometer output. It also called gravity. The accelerometer → the device capable of detecting motion changes in the form of acceleration. Connect the Y of accelerometer to the analog pin A2 of the Arduino board. Sketch We will load the code on Arduino connected with accelerometer. Check the supplier documentation to find the correct voltage. CodeThe accelerometer connections are defined as constants at the of the sketch, using the two analog pins 4 and 5 as the power source. You will use the other three analog inputs to read the analog outputs of accelerometer. The breakout board of adafruit accelerometer also works, even if it has to be wired differently. LâADXL3xx emits the acceleration on each axis as an analog voltage between 0 and 5 volts. acceleration (change motion) or vibration generates the force that causes the stress of the piezoelectric material. output be clearly visible on the Serial Monitor in Arduino IDE. We would use the ADXL3xx accelerometer series. We need to ensure voltage because 3.3V accelerometer could be damaged with a 5V power supply. Use of accelerometer Uses of accelerometer are listed below: It is used to detect earthquakes due to the presence of a motion sensor. Read an ADXL3xx accelerometer. This tutorial shows you how to read from ADXL3xx series accelerometer (e.g. ADXL320, ADXL321, ADXL322, ADXL330) and receive values in the serial monitor of Arduino Software (IDE) or application that receives data on the serial port. This tutorial was built using breakout tables from Sparkfun. What's an accelerometer? Accelerometer ADXL335 The structure of ADXL335 → shown below: the position of the three axes (X-axis, Y-axis, and Z-axis) will change depending on the position of accelerometer li li eratsopS. Āticolev al e otnematneiroâl eranimreted rep atazzilitu enoisnet aL In a particular direction it causes a change in the voltage of the respective axis. Structure The project structure is shown below: The connection for the above project is explained below: Connect the accelerometer to the analog A3 pin of the Arduino card. The values should be the same for the other axes, but vary based on the sensitivity of the device. It is used to create personalized projects. With the horizontal axis (ie parallel to the ground or 0 °), the reading of the accelerometer should be around 512, but the values of other corners will be different for a different accelerometer (eg ADXL302 5G one). angle -90-80-70-60-50-40-30-20-100Acceleration662660654642628610589563537510Angle0102030405060708090Acceleration510485455433408390374363357355Learn moreYou can find more tutorials in the basic built-in section. You examples can also explore the language reference, a detailed collection of Arduino programming language. Last revision 2015/07/28 by SM In this topic, we will discuss a project based on an accelerometer. It can also measure the vibration of a structure. In the latter case, the code can be modified by commenting on the lines above in the void setup () SECTION.12345678910111213141516161216223242526272829303333333333333333733940314238333940314238333940314238333940 4142 43const int groundpin = 18; 44 45CONT INT POWERPIN = 19; 46 47Const int xpin = A3; 48 49Const Int YPIN = A2; 50 51Const Int ZPIN = A1; 52 53Void Setup () {54 55 56 57 Serial.Begin (9600); 58 59 60 61 62 63 64 65 66 67 pinMode (groundpin, output); 68 69 PinMode (PowerPin, exit); 70 71 digitalWrite (groundpin, bass); 72 73 digitalWrite (PowerPin, high); 74 } 75 76void loop () {77 78 79 80 Serial.Print (Analogead (XPIN)); 81 82 83 84 Serial.Print ("T"); 85 86 Serial .Print (analogead (pin)); 87 88 89 90 Serial.Print ("T"); 91 92 Serial.Print (Analogead (ZPIN)); 93 94 id id Y essa'l odnanoizisop etloccar ortemorelecca'led eruttel enucla onos ireiratad I }99 ;(Accelerometer ADXL322 2g at various angles above the ground. We will use a three-axis accelerometer which dâ acceleration for each axis as analog voltage for separate pins. When we hold the card up and flat, the measured acceleration of 9.8m/s^2 will appear On the Z-axis. For this purpose, three analog input pins shall be used as digital I/O pins, for the supply and grounding of the accelerometer and for the self-test pin. pin.

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