DYNAMIC SOLUTIONS

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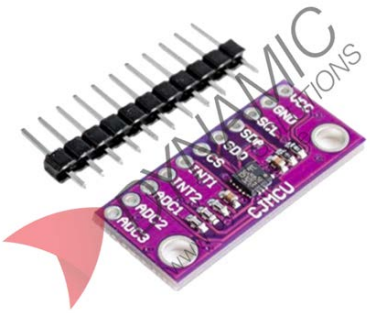
High Resolution Three-axis Accelerometer LIS3DSH



Features:

The LIS3DSH 3-Axis Accelerometer Module combines high performance, digital output, and low power consumption for precision motion detection. Supporting I2C and SPI interfaces, this module offers 16-bit data resolution and a selectable full-scale range up to ±16g. Its integrated programmable state machine, FIFO buffer, and temperature sensor enable complex motion analysis with minimal external components. Suitable for wearable devices, robotics, and industrial sensing systems.

Specifications	
Chip	LIS3DSH
Power Supply Voltage	1.71V–3.6V
Working Current	2μA
ADC Resolution	16-bit
Full-Scale Range	±2g, ±4g, ±8g, ±16g
Data Rate	1Hz–5.3KHz
Interface	I2C, SPI
Built-in Features	Programmable state machine, FIFO, Temperature sensor
Operating Temperature	-40°C to +85°C
Impact Resistance	10000g
Pin Count	11
Dimensions	28mm × 13mm
Usage	Motion detection, vibration measurement, robotics

Pinouts:

Pin Name	Type	Description
VCC	Power	Power supply input
GND	Ground	Power ground
SCL	Input	I2C clock line
SDA	Input/Output	I2C data line
SDO	Output	SPI data output
CS	Input	Chip select for SPI
INT1	Output	Interrupt output 1
INT2	Output	Interrupt output 2
ADC1	Input	Analog input 1
ADC2	Input	Analog input 2
ADC3	Input	Analog input 3

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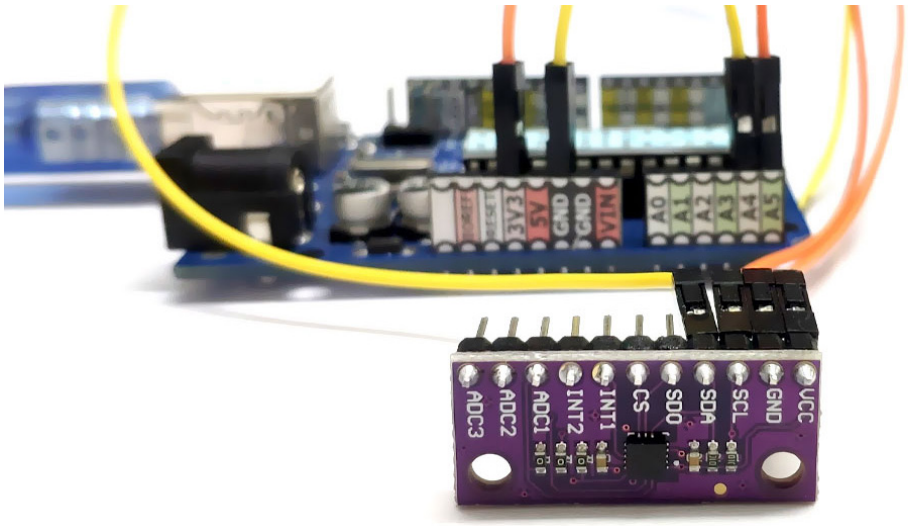
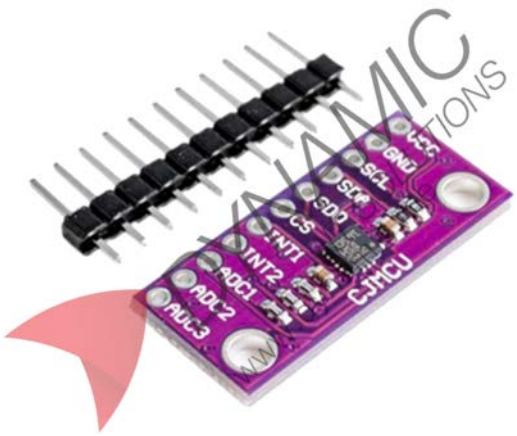


Product Pictures:



Product Dimensions: