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Description

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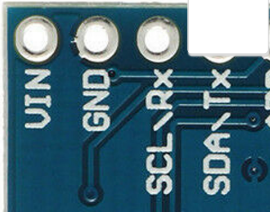
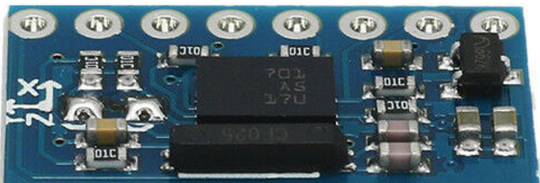
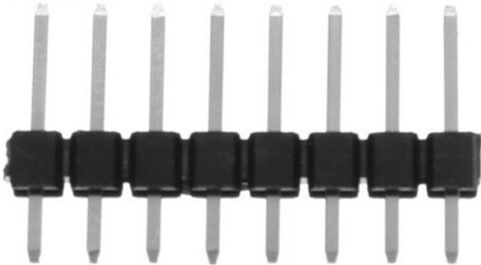
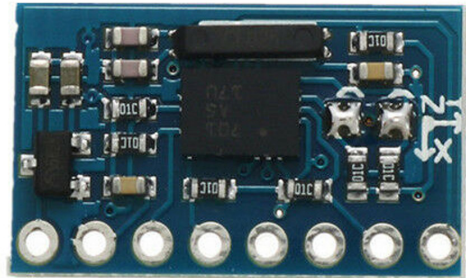
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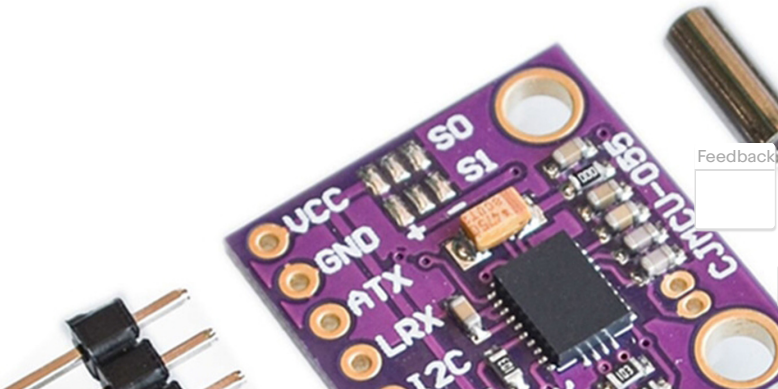
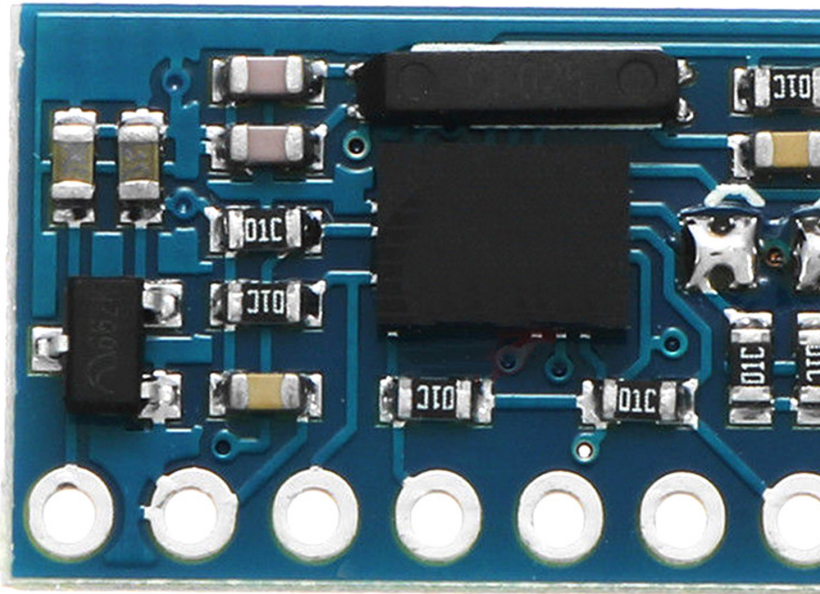
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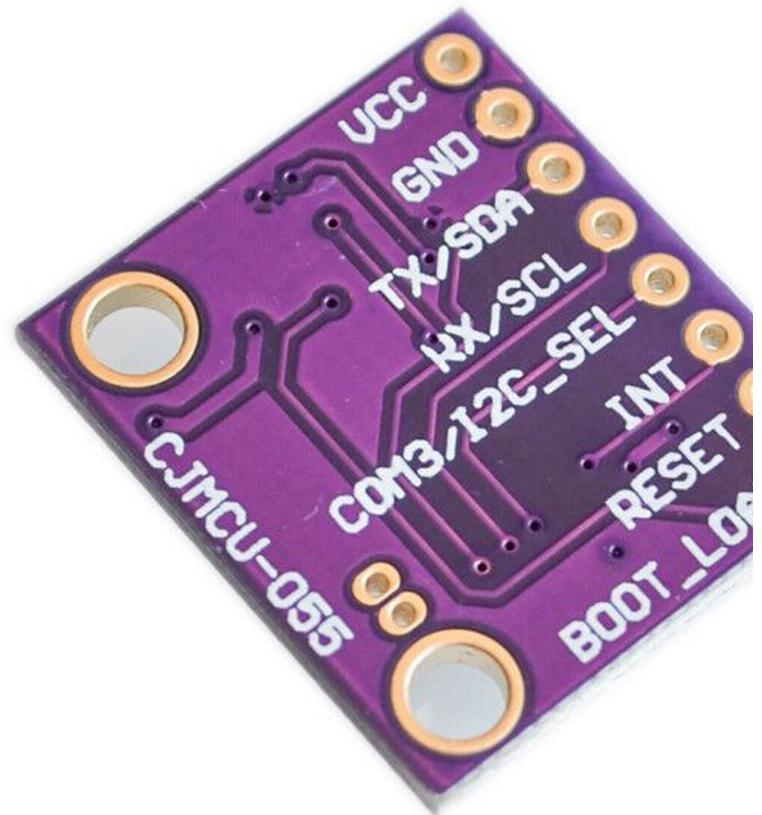
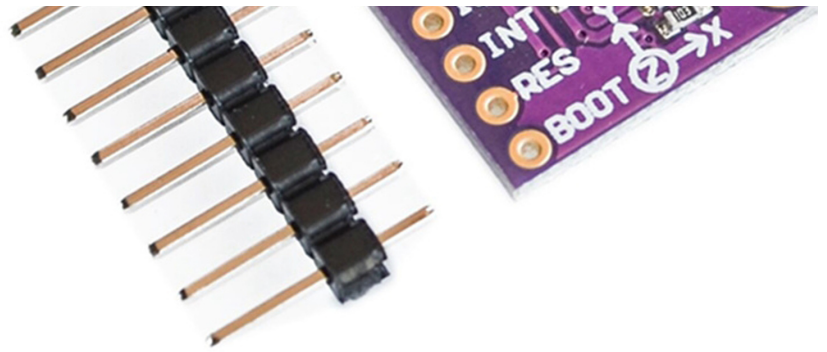
Product Description

BNO055 Sensor



Other



**Description:**

CJMCU-055

100% Brand New and High Quality.

Shape: Same as the picture show

1. Type: CJMCU-055

2. Size: 20mm x 20mm (LxW)

CJMCU-055 is a System in Package (SiP),

integrating a triaxial 14-bit accelerometer,

atriaxial 16-bit gyroscope with a range of ± 2000 degrees persecond,

a triaxial geomagnetic sensor and a 32-bit cortex M0+ microcontroller running Bosch

Feedback

Sensortec sensor fusion software, in a single package.

The corresponding chip-sets are integrated into one single 28-pin

LGA 3.8mm x 5.2mm x 1.1 mm housing.

For optimum system integration the BNO055 is equipped with digital bidirectional I2C and UART interfaces.

The I2C interface can be programmed to run with the HID-I2C IIC protocol turning the BNO055 into a plug-and-play sensor hub solution for devices running the Windows 8.0 or 8.1 operating system.

This datasheet release describes the BNO055 engineering samples programmed with version 0.3.0.4 of the BNO055 firmware.

The firmware version can be identified by read SW_REV_ID_MSB and SW_REV_ID_LSB registers; firmware version 0.3.0.4 will return the value 0x03 for the MSB and 0x04 for the LSB.

Package Included:

1PC*MCU+9DOF BNO055 Intelligent 9Axis Attitude Sensor Module

GY-BNO055

Module Model: GY-BNO055

Use the chip: BNO-055

Power supply: 3-5v (internal low voltage regulator)

Communication method: standard IIC / serial communication protocol

Communication: Module size 12mm * 20mm

Applications:

Bosch Sensortec BNO055 Intelligent 9-Axis Absolute Orientation Sensor is a System in Package triaxial 14-bit accelerometer, a triaxial 16-bit gyroscope with a range of ± 2000 degrees per second, a triaxial 16-bit digital compass, a triaxial 16-bit geomagnetic sensor and a 32-bit ARM Cortex M0+ microcontroller running Bosch Sensortec sensor fusion software, all in a single package. The corresponding chip-sets are integrated into one single 28-pin LGA 3.8mm x 5.2mm x 1.1 mm housing. For optimum system integration the BNO055 is equipped with digital bidirectional I2C and UART interfaces. The I2C interface can be programmed to run with the HID-I2C protocol turning the BNO055 into a plug-and-play sensor hub solution for devices running the Windows 8.0 or 8.1 operating system.

Package Included:

1PC*BNO055 Attitude Sensor Angle Gyroscope Module

GY955 AHRS

GY955 is a low cost AHRS module.

Working voltage 3-5v power consumption is small, small size.

Its working principle is through the gyroscope with

Acceleration pass, magnetic field sensor through data fusion

The algorithm finally gets direct angle data.

This module uses the serial (TTL level)

way of communication. The product has high precision and high stability.

Able to get an accurate angle in any position,

Serial baud rate of 9600bps and 115200bps

There are two ways of continuous output and inquiry output,

Can adapt to different working conditions.

With all the microcontroller and computer connection.

Product Parameters

Measuring range: $-180^{\circ} \sim 180^{\circ}$

Resolution: 0.01°

Measurement accuracy: 2°

Repeatability: 2°

Response frequency: 100 HZ (115200 bps)

Working voltage: 3 ~ 5 V

Working current: 15mA

Operating temperature: $-20^{\circ} \sim 85^{\circ}$

Storage temperature: $-40^{\circ} \sim 125^{\circ}$

Size: 14.6mm x 17.8mm

Product Features Technical parameters

Cost-effective Built-in MCU calculation angle

small volume

Serial communication format

Feedback

With the corresponding host computer software

Applications

Handheld instrumentation

Robot navigation, positioning

Voyage model system

Balance car

Antenna pitch positioning

Pin description

VCC: Power supply + (3v-5v)

TX: Serial UART_TX (TTL level)

RX: Serial UART_RX (TTL level)

GND: Power ground

SI: Reserved, do not connect

SR: Reserved, do not connect

REST: BNO055 REST pin

ADD: BNO055 I2C address pin

SDA: BNO055 I2C data pin

SCL: BNO055 I2C clock pin

Package Included:

1PC*GY-955 AHRS High Stability Calman Filter Sensor 9 Axis Navigation Module BNO-055

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