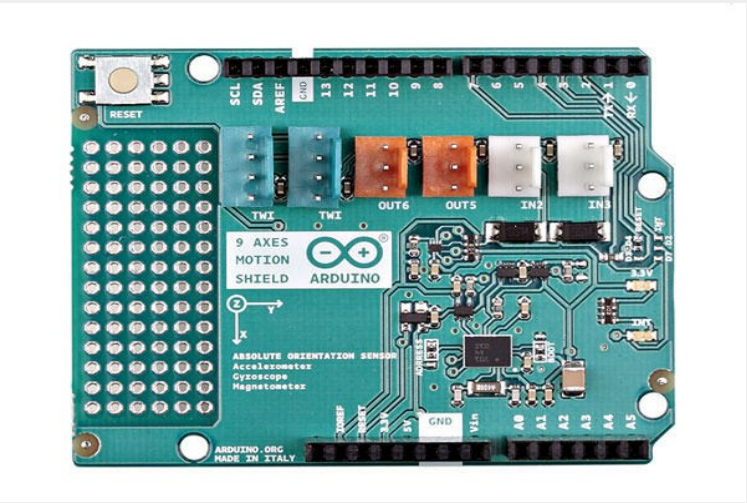
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INTRODUCTION

The Arduino 9 Axes Motion Shield is based on the BNO055 absolute orientation sensor from Bosch Sensortec GmbH.

The BNO055 is a System in Package (SiP), integrating a triaxial 14-bit accelerometer, a triaxial 16-bit gyroscope with a range of ±2000 degrees per second, a triaxial geomagnetic sensor and a 32-bit microcontroller running the BSX3.0 FusionLib software.

The sensor features three-dimensional acceleration, yaw rate and magnetic field strength data each in 3 perpendicular axes.

It also provides the sensor fusion signals such as
- Quaternion
- Euler angles
- Rotation vector
- Linear acceleration
- Gravity vector

In addition, it incorporates an intelligent interrupt engine, which allows for triggering interrupts based on
- slow or no motion recognition
- any motion (slope) detection
- high-g-detection.

The shield is TinkerKit compatible, which means you can quickly create projects by plugging TinkerKit modules to the board.

SPECIFICATION

- Operating Voltage: 5V and 3.3V
- Power Consumption: 50mW
- Weight: 32g

DOCUMENTS

Downloaded from Arrow.com.

- Arduino Product page
- Arduino 9 Axes Motion Shield LABS Page
- EAGLE files: arduino_9AxesShield-reference-design.zip
- Schematic: arduino_9AxesShield-schematic.pdf

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- Arduino 9 Axes Motion Shield x1

REVIEW

FAQ

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n the discussion...

Pham Kim Hoan • 4 years ago

Hi, when i connected this shield with Romeo BLE and with 2 servos DF05BB, after several turnings of the servos, the shield is reset. Do you have any ideas how to solve this problem. Is the power provided too low, i already tried with the LiPo battery 2 cells

Reply • Share ›

wendy ➔ Pham Kim Hoan • 4 years ago

Hi, I am guessing it should be related to power supply voltage. Whats your voltage of 2 cells? And where is your lipo battery connected to? The servo-pwr interface ?

Reply • Share ›

Pham Kim Hoan ➔ wendy • 4 years ago

The voltage of the 2 cells Li-Po is 7.4V from DF robot and i connected it to the External Power Input, not to the Servo-PWR. I also think it is related to the power, because with 1 servos, the system is fine. I tried to connect 5V battery (the one use to charge handphone) directly to the Servo-Pwr but it doesnt work either, the 9IMU shield is still reset; the 2 servos work fine though. I havent figured out how to solve this yet. Should i buy a seperate shield for the servos with seperate power supply line so that the power supplied to 9IMU shield will not be interrupted ?

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wendy ➔ Pham Kim Hoan • 4 years ago

So if you only connected two servos to romeo ble, no 9IMU, what happened ?

Reply • Share ›

Pham Kim Hoan ➔ wendy • 4 years ago

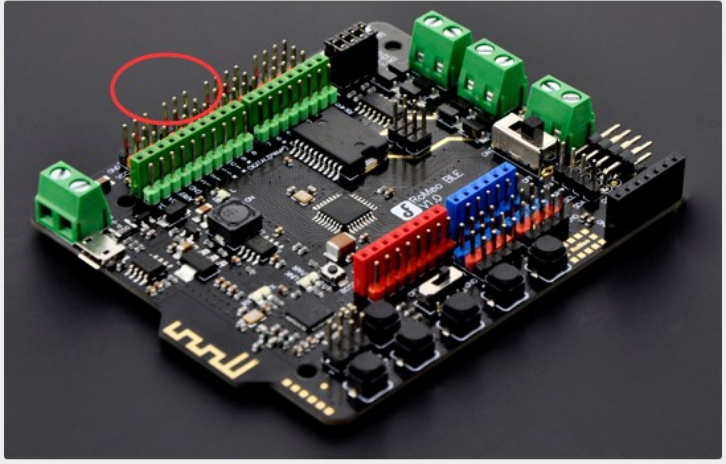
No problem, servos are a little bit shaky

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wendy ➔ Pham Kim Hoan • 4 years ago • edited

Hi did you try to connect the servos to this pins-the outmost 3pin interface after you inserted the 9IMU into romeo ble. I am guessing when you connect to servo power, which dont connect to vin pin, 9IMU cant get enough power.

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Pham Kim Hoan ➔ wendy • 4 years ago

yes i did connect this to the servo

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Pham Kim Hoan • 4 years ago

Hi, Could i use this shield with Romeo BLE

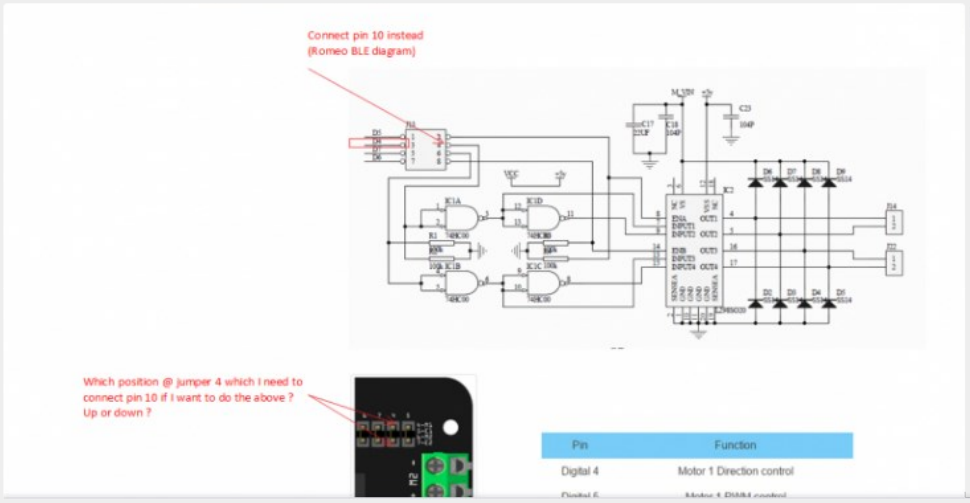
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DFRobot Support Mod ➔ Pham Kim Hoan • 4 years ago

Yes, Romeo BLE has same format with Arduino UNO

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Pham Kim Hoan ➔ DFRobot Support • 4 years ago



see more

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DFRobot Support Mod ➔ Pham Kim Hoan • 4 years ago

Hi, it isn't a big problem. Romeo BLE is designed for all-purpose. Check the photo your attached, unplug the D4 jumper cap, and connect the below pin to the other GPIO with a jumper cable. It is direction pin, not a PWM one, so just select a free one. And don't forget to define it in the code. That's easy

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Pham Kim Hoan ➔ DFRobot Support • 4 years ago

great thanks. !

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