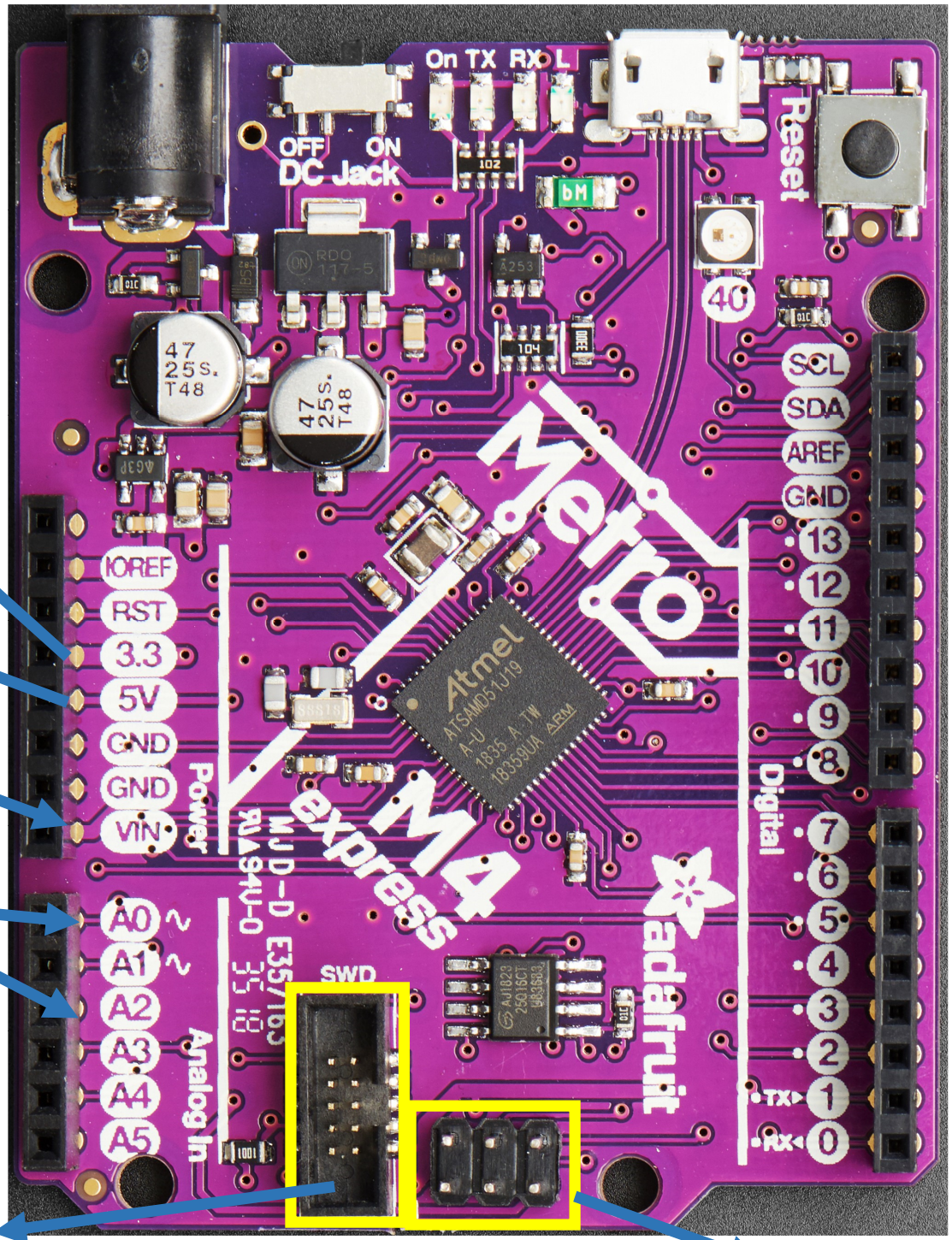


3.3V To 6DOF Modules on SPI Also To Encoder

5V to Bluetooth

8V from Buck Regulator

Current Sense from SimpleFOC Driver Board

Servo Chan. 2 ←

Servo Chan. 1 ←

Available 3.3V and GND (not used)

SimpleFOC PWM outputs only work on some pins, even though most M4 pins are “PWM capable”

→ On/Off Camera and Servo

→ PWM A

→ SPI CS for Sensor 2

→ Amplifier Enable

→ SPI CS for Sensor 1

→ PWM C

→ PWM B

← Encoder Index

← Encoder Phase A

← Encoder Phase B

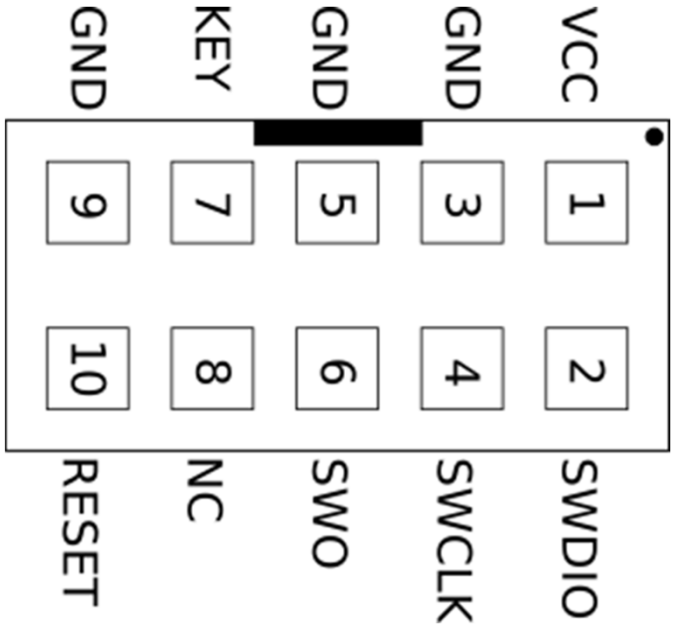
→ Bluetooth

← Bluetooth

Common SPI Pins to Sensors

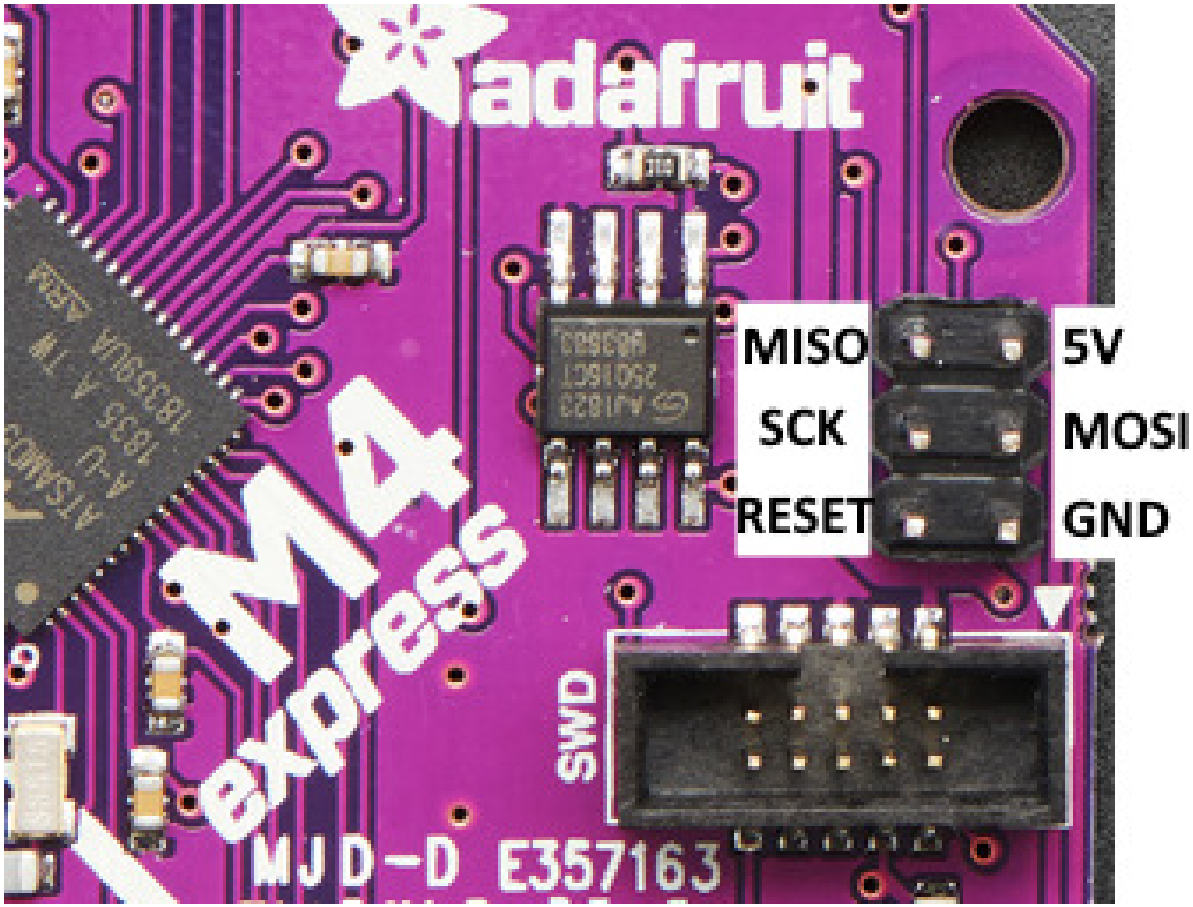
SWD connector pinout

Use for 3.3V and GND



SPI connector pinout

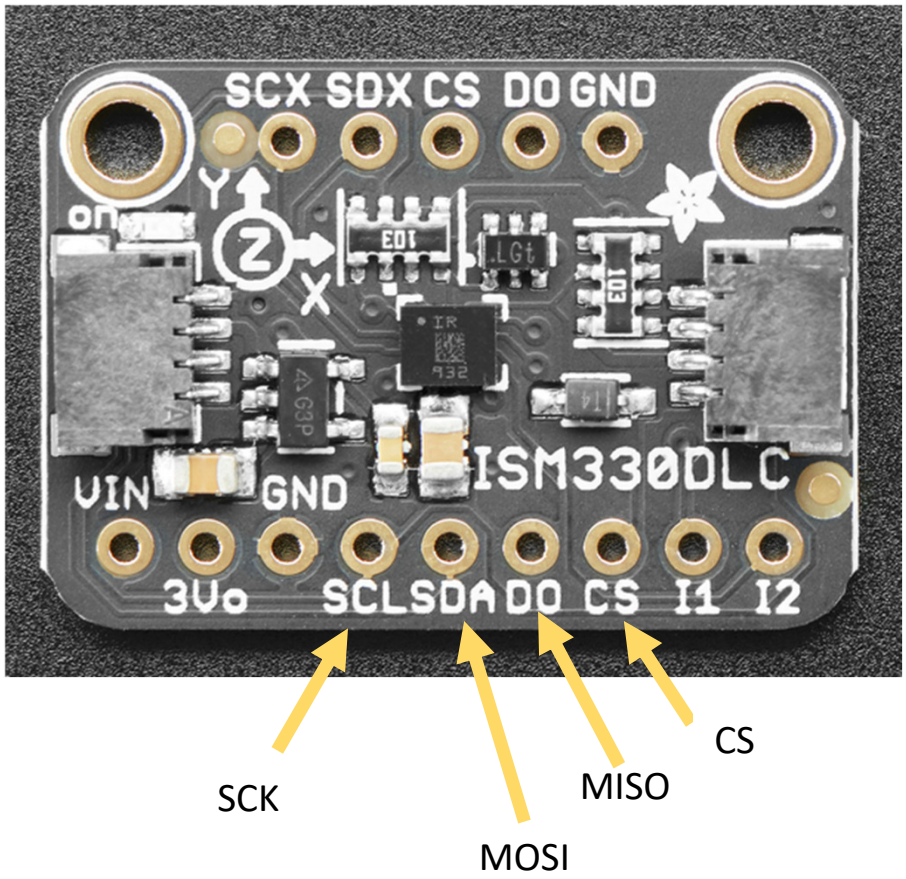
On the Metro M4 this is the ONLY location to access these SPI pins



Adafruit ISM330DHCX
SPI Connections

All pins going into the breakout have level shifting circuitry to make them 3-5V logic level safe. Use whatever logic level is on Vin

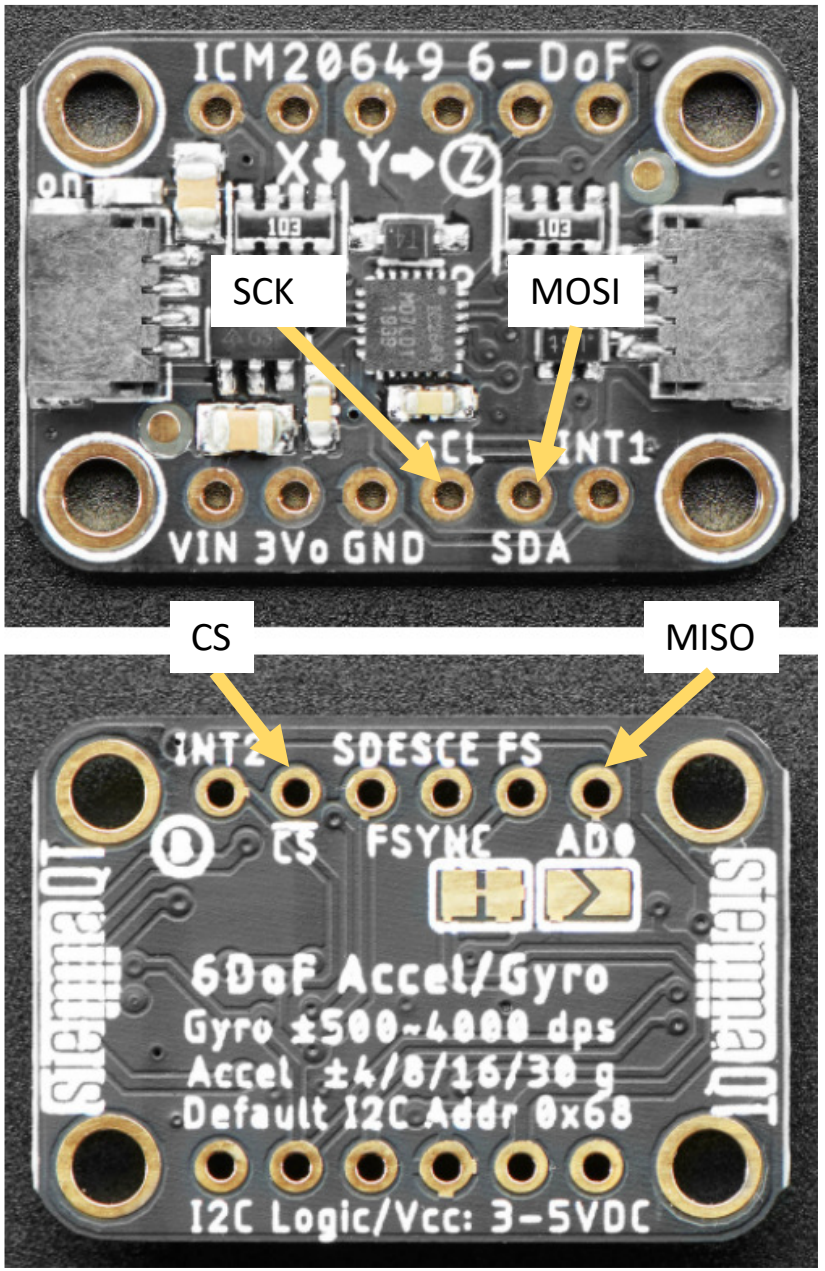
SCK - This is also the SPI Clock pin, it's an input to the chip
DO (Bottom) - this is the serial Data Out / Microcontroller In Sensor Out pin, for data sent from the LSM6DSOX, ISM330DHCX, or LSM6DSO32 to your processor.
SDA - this is also the Serial Data In / Microcontroller Out Sensor In pin, for data sent from your processor to the LSM6DSOX, ISM330DHCX, or LSM6DSO32
CS (Bottom) - this is the Chip Select pin, drop it low to start an SPI transaction. Its an input to the chip



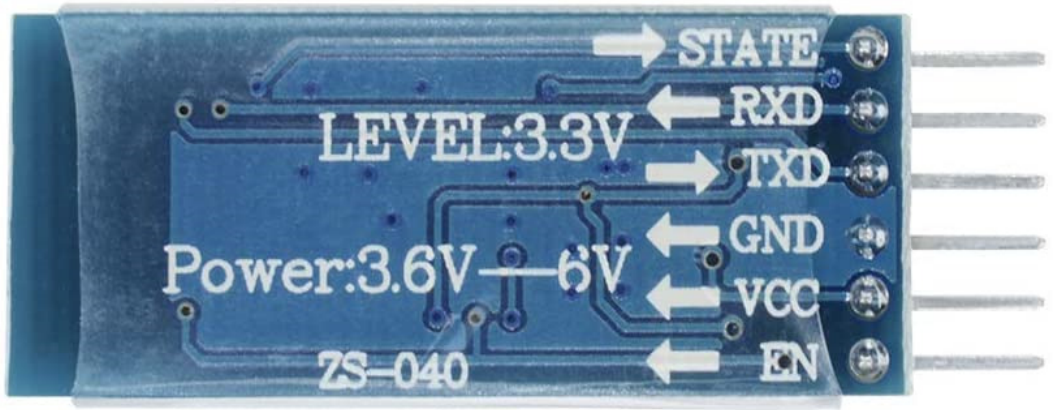
Adafruit ICM20649
SPI Connections

All pins going into the breakout have level shifting circuitry to make them 3-5V logic level safe. Use whatever logic level is on Vin

SCL (SCK)- This is also the SPI Clock pin, it's an input to the chip
SDA (MOSI) - this is also the Serial Data In / Microcontroller Out Sensor In pin, for data sent from your processor to the sensor
AD0 (MISO) - this is the Serial Data Out / Microcontroller In Sensor Out pin, for data sent from the sensor to your processor.
CS - this is the Chip Select pin, drop it low to start an SPI transaction. Its an input to the chip



HC-06 Wireless Bluetooth Serial Transceiver

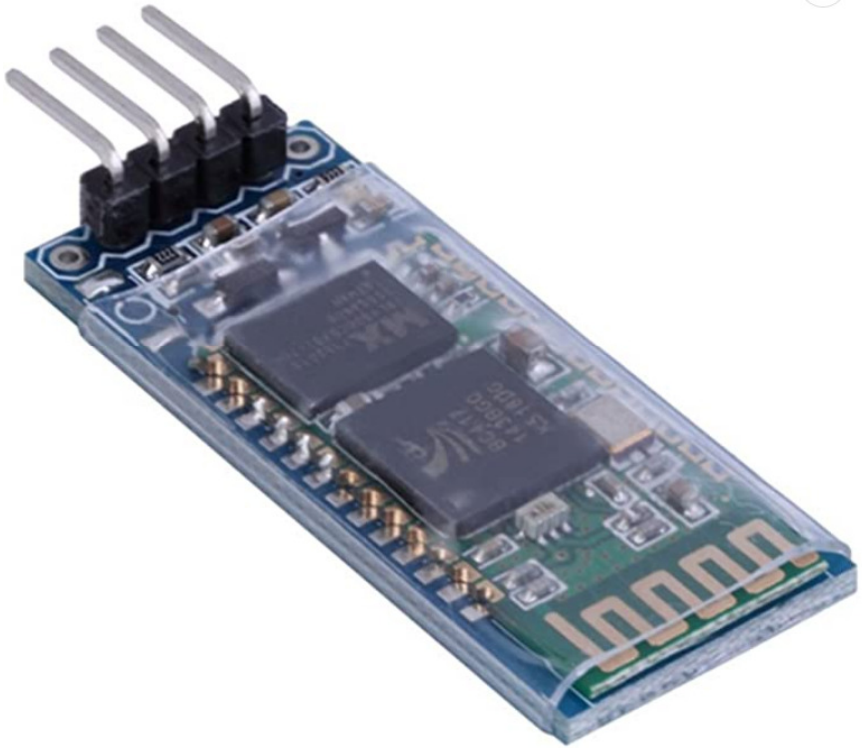


← Metro M4

→ Metro M4

← GND

← 5.0V



HiLetgo HC-06 RS232 4 Pin Wireless Bluetooth Serial RF Transceiver Module Bi-Directional Serial Channel Slave Mode for Arduino

Visit the HiLetgo Store

4.5 ★★★★½ 215 ratings | 11 answered questions

$9.49

prime

FREE Returns

Get 5% back ($0.47 in rewards) on the amount charged to your Amazon Prime Rewards Visa Signature Card.

Color: **1pc**

Brand	HiLetgo
Hardware Interface	Bluetooth, USB
Operating System	Android
Color	1pc
Compatible Devices	Laptop, Desktop
Data Link Protocol	Bluetooth, USB

About this item