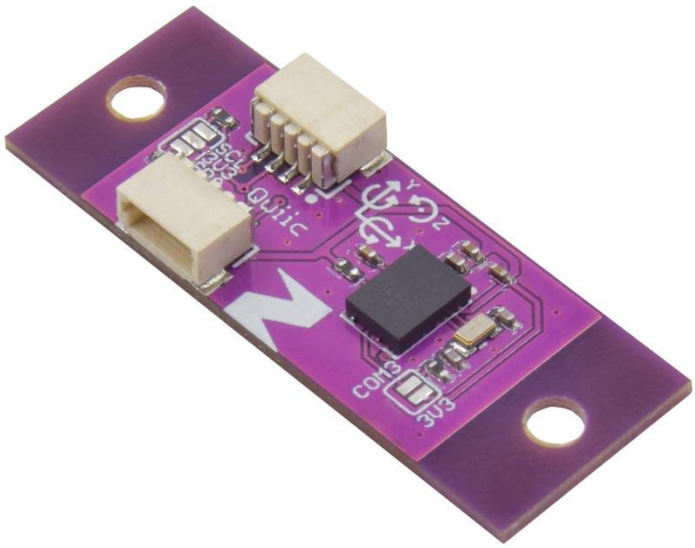


Zio 9DOF IMU BNO080 (Qwiic)

SKU: 101894

Description:

This IC has a combination triple axis accelerometer/gyro/magnetometer packaged with an ARM Cortex M0+ running powerful algorithms. The BNO080 Inertial Measurement Unit (IMU) produces accurate rotation vector headings, excellently suited for VR and other heading applications with a static rotation error of 2 degrees or less. It's what we've been waiting for: all the sensor data is combined and drift corrected into meaningful, accurate IMU information.

Specifications:

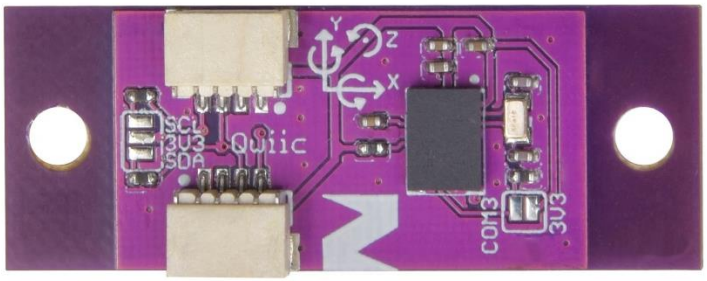
- Rotation Vector
  - Dynamic Error: 3.5°
  - Static Error: 2.0°

- Gaming Rotation Vector
    - Dynamic Error: 2.5°
    - Static Error: 1.5°
    - Heading Drift: 0.5° / min
- Geomagnetic Rotation Vector
    - Dynamic Rotation Error: 4.5°
    - Static Rotation Error: 3.0°
- Gravity Angle Error: 1.5°
- Linear Acceleration Accuracy: 0.35m/s2
- Accelerometer Accuracy: 0.3m/s2
- Gyroscope Accuracy: 3.1° / sec
- Magnetometer Accuracy: 1.4µT
- IC: BNO080
- I2C address: 0x4A, 0x4B (Default: 0x4A)
- Dimension: 13.9x 36.2mm(with mounting tab), 13.9x24.7mm(without mounting tab).
- Weight: 1.2g

Links:

- Eagle File and Schematic
- BNO080 Datasheet
- SparkFun Library
- Learn more about ZIO
- Learn more about Qwiic

More Product Picture:

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Zio 9DOF IMU 3N0080 V1.0