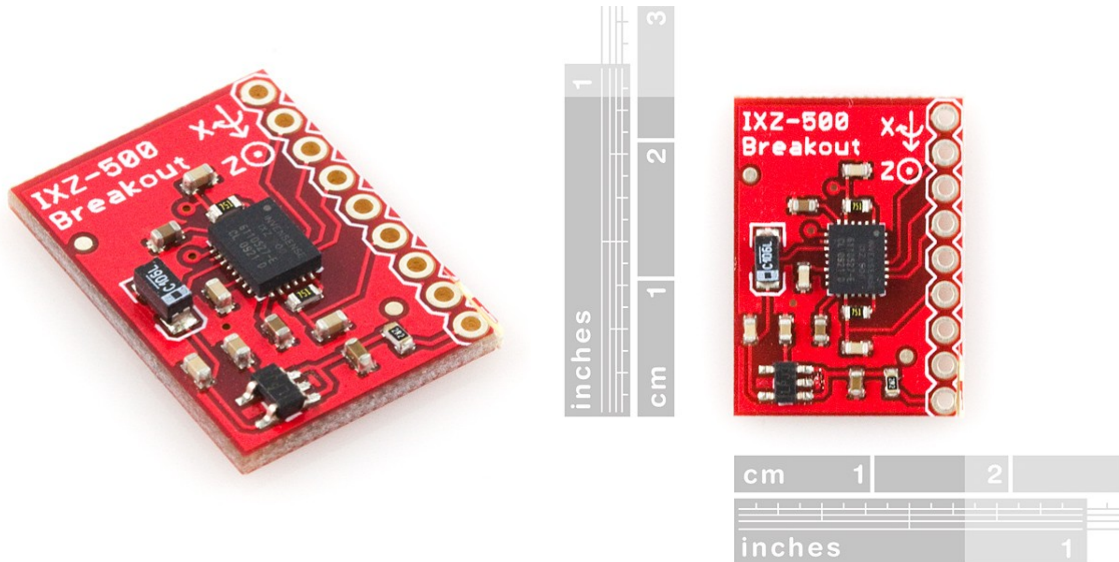


# SparkFun

## Gyro Breakout Board - IZX500 Dual 500°/s (SKU: SEN-09410)



**Description:** This is a breakout board for the dual axis IZX-500 gyro. The IZX-500 is a very small gyroscope, designed to sense angular velocity on the x and z axes (pitch/yaw). The gyro features a primary output with a  $\pm 500^\circ/\text{s}$  full scale range, for measuring higher speed motions, and has a secondary output with a  $\pm 110^\circ/\text{s}$  full-scale range, for sensing more precise movements. These dual outputs allow the system designer to use an analog-to-digital-converter (ADC) with two fewer bits, saving overall system cost.

This breakout board includes the IZX-500 and all components as shown - a 2.8VDC LDO voltage regulator, and filtering components. All necessary pins of the IZX-500 are brought out to a 9-pin 0.1" pitch header.

Not sure which gyro is right for you? Our [Accelerometer and Gyro Buying Guide](#) might help!

### Features:

- IZX-500 Dual Axis Gyroscope
- On-board 2.8VDC voltage regulator
- All necessary filtering components
- Pins broken out to a 0.1" pitch header
- Integrated X- and Z-axis gyros on a single chip with in-plane mounting
- Two separate outputs per axis for higher speed motions and lower-speed precise movements:
  - 500°/s full scale range (higher speed)
  - 110°/s full scale range (high precision)
- Integrated amplifiers and low-pass filters
- Auto Zero function for bias calibration
- On-chip temperature sensor

### Dimensions:

- Board: 0.65x0.9"

### Documents:

- [Schematic](#)

- [IXZ-500 Datasheet](#)
- [Wiring Example](#) (IXZ-500)