

# Gyration

## *MicroGyro 100 Starter Kit*

The MicroGyro 100 Starter Kit is targeted at researchers and designers interested in developing applications using Gyration's dual-axis consumer gyroscope, the MicroGyro 100. It features three MicroGyro 100 gyroscopes, three GyroPoint ASICs (custom 12 bit analog-digital converter with instrumentation amplifiers), and a complete documentation package for a number of potential application circuits. This documentation includes a complete set of specifications and application notes for the MG100 and ASIC, FAQ's and sample schematics for a variety of digital and analog application circuits.

### *Features*

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#### **Hardware**

- 3 MicroGyro 100 dual-axis rate gyroscopes
  - 3 GyroPoint ASICs
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#### **Documentation**

- Application Notes for MicroGyro 100 and GyroPoint ASIC
  - Specifications for MicroGyro 100
  - Specifications for GyroPoint ASIC
  - Schematics for Analog and Digital circuitry for MicroGyro applications
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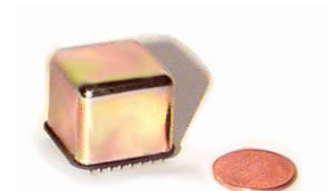
#### **MG 100 Information**

The MicroGyro® 100 is a low-cost, dual-axis mini rate gyroscope optimized for easy integration into input devices, computer mice or remote controls. Its unique single-stamping design offers high reliability and low manufacturing cost. It features simple analog outputs and low voltage operation with a 2.2 volt minimum requirement. Its extremely low current consumption is enhanced by a low current sleep mode. Internal soft mounting isolates the vibrating elements, greatly decreasing drift and improving shock resistance. The module can be mounted directly to a printed circuit board, without additional shock mounting. A unique electromagnetic transducer design and a single metal stamping utilize the Coriolis effect to sense rotation. Analog voltages proportional to angular rates around the two sensed axes are provided relative to a voltage reference output. A temperature sensor is provided for the most demanding applications. Suggested applications are computer pointers, TV remote controllers, robotics, factory automation, antenna stabilization and auto navigation.

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