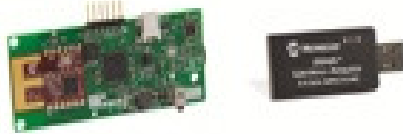




Part Number : DM240316

Motion Sensor Demo Board



Microchip's Motion Sensor Demo Board (Part # DM240316) is powered by a PIC24F microcontroller with on-board USB functionality and includes an MRF24J40MA 2.4GHz wireless transceiver that sends data wirelessly to a ZENA™ wireless adapter. The board integrates an MPU-6050 motion sensing chip from InvenSense. The MPU-6050 has a 3-axis gyroscope, 3-axis accelerometer and uses sensor fusion technology to create a 3-D reference frame.

Microchip's Motion Sensor Demo Board allows you to easily add this breakthrough technology to your next gaming accessory, tablet PC, digital camera, robotic component, or other consumer application.

KEY FEATURES:

- Integrates low cost, high memory PIC24FJ256GB206 USB MCU
- Low power, low cost, high performance, InvenSense MPU-6050
- 6-axis sensor fusion with 3-axis gyroscope and 3-axis accelerometer
- Battery powered (single 1.5V AAA) or USB powered
- Supports both hard-wired USB and wireless modes of operation
- MRF24J40MA - 2.4 GHz IEEE 802.15.4 radio transceiver
- Wireless communications via a ZENA™ wireless Adapter

- External SST flash memory allows storage of sensor data
- Supports recording and playback
- Example demos – Spizzle (Spinning Puzzle) and Teapot

Example demos – Spizzle (Spinning Puzzle) and Teapot:

- Bill of Materials
- Schematic
- Pre-compiled “hex” files
- Example Demos with source code (Spizzle and TeaPot)

KIT CONTENTS:

- Motion Sensor Demo Board
- ZENA wireless adapter 2.4 GHz with MRF24J40
- USB cable