GENERAL DESCRIPTION
The ICM-20608-G is a 6-axis MotionTracking device that combines a 3-axis gyroscope, 3-axis accelerometer, in a small 3x3x0.75mm (16-pin LGA) package.

- 512-byte FIFO to reduce traffic on the serial bus interface, and reduce power consumption by allowing the system processor to burst read sensor data and then go into a low-power mode
- Gyroscope programmable FSR of ±250dps, ±500dps, ±1000dps and ±2000dps
- Accelerometer with Programmable FSR of ±2g, ±4g, ±8g and ±16g
- EIS FSYNC support

ICM-20608-G includes on-chip 16-bit ADCs, programmable digital filters, an embedded temperature sensor, and programmable interrupts. The device features an operating voltage range down to 1.71V. Communication ports include I2C and high speed SPI at 8MHz.

APPLICATIONS
- Mobile phones and tablets
- Drones
- Motion-based game controllers
- 3D remote controls for Internet connected DTVs and set top boxes, 3D mice
- Wearable sensors for health, fitness and sports

FEATURES
- User-programmable interrupts
- Wake-on-motion interrupt for low power operation of applications processor
- 512-byte FIFO buffer enables the applications processor to read the data in bursts
- On-Chip 16-bit ADCs and Programmable Filters
- Host interface: 8MHz SPI or 400kHz Fast Mode I2C
- Digital-output temperature sensor
- VDD operating range of 1.71 to 3.45V
- MEMS structure hermetically sealed and bonded at wafer level
- RoHS and Green compliant

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART</th>
<th>TEMP RANGE</th>
<th>PACKAGE</th>
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<tbody>
<tr>
<td>ICM-20608-G</td>
<td>−40°C to +85°C</td>
<td>16-Pin LGA</td>
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†Denotes RoHS and Green-Compliant Package

TYPICAL OPERATING CIRCUIT