

TDK InvenSense ICM-42605 High Performance Low Power 6-Axis MEMS Motion Sensor

Description

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TDK InvenSense
ICM-42605 High Performance Low Power 6-Axis MEMS Motion Sensor

The TDK InvenSense ICM-42605 is a 6-axis MotionTracking device that combines a 3-axis gyroscope, and a 3-axis accelerometer in a small 2.5 x 3 x 0.91 mm (14-pin LGA) package. It also features a 2K-byte FIFO that can lower the 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.

ICM-42605, with its 6-axis integration, enables manufacturers to eliminate the costly and complex selection, qualification, and system level integration of discrete devices, guaranteeing optimal motion performance for consumers.

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Features Include:

- Gyroscope Noise: 3.8 mdps/Ã–Hz & Accelerometer Noise: 70 Âµg/Ã–Hz
- Low-Noise mode 6-axis current consumption of 0.65 mA
- User selectable Gyro Full-scale range (dps): Â± 15.2/31.2/62.5/125/250/500/1000/2000
- User selectable Accelerometer Full-scale range (g): Â± 2/4/8/16
- User-programmable digital filters for gyro, accel, and temp sensor

APEX Motion Functions:

- Pedometer, Tilt Detection, Tap Detection
- Wake on Motion, Raise to Wake/Sleep, Significant Motion Detection

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CDI works continuously with our vendor partners to connect our customers to products and solutions that accelerate the time to market. CDI will leverage its product knowledge, technical expertise, and evaluation tools to find the right solution for your design.

For more information, or to learn how we can help drive your success, please visit www.cdiweb.com or email us at sales@cdiweb.com.

About TDK InvenSense

InvenSense, Inc, a TDK Group Company is part of the Sensor System Business Company within TDK and is the indu leader in MEMS Motion, Audio, and Pressure Solutions for the consumer, industrial, automotive, and IoT market segme TDK provides a very robust portfolio of MEMS 3/6/7/9 axis motion sensors, accompanied by the highest performing MEI audio microphones, and pressure sensors. TDK continues to push the boundaries of performance and quality; setting ne standards of innovation across multiple industries.

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Component Distributors, Inc. (CDI) is a value-added distributor of high-performance LED, Power, RF & Microwave, Wireless and Sensor component technologies. CDI distributes globally and provides local application support and custo service across the Americas.

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Date Created
May 4, 2022
Author
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