



# 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 2.5x 3 x 0.91 mm (14-pin LGA) package. It also features a 256 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/ÖHz & Accelerometer Noise: 70 µg/ÖHz
- Low-Noise mode 6-axis current consumption of 0.65 mA
- User selectable Gyro Full-scale range (dps): ± 15.2/31.2/62.5/125/250/500/1000/2000
- User selectable Accelerometer Full-scale range (g): ± 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

### Request a Quote

CDI works continuously with our vendor partners to connect our customers to products and solutions that accelerate their 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](http://www.cdiweb.com) or email us at [sales@cdiweb.com](mailto: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 industry leader in MEMS Motion, Audio, and Pressure Solutions for the consumer, industrial, automotive, and IoT market segments. TDK provides a very robust portfolio of MEMS 3/6/7/9 axis motion sensors, accompanied by the highest performing MEMS audio microphones, and pressure sensors. TDK continues to push the boundaries of performance and quality; setting new standards of innovation across multiple industries.

### **About Component Distributors, Inc. (CDI)**

**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 customer service across the Americas.

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### **Category**

1. Ewave
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### **Date Created**

May 4, 2022

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