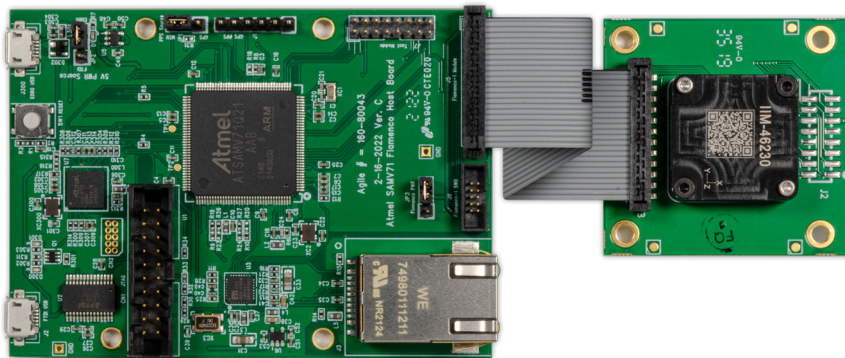# SmartMotion® Platform
by InvenSense®

⚛TDK

DK-46230
Development Kit for IIM-46230 6-Axis Motion Sensor

The DK-46230 is a comprehensive development system for TDK InvenSense Motion Sensor devices. The platform designed around the Microchip SAM V71 MCU can be used for rapid evaluation and development of InvenSense sensor-based solutions. The platform integrates an on-board Embedded Debugger so external tools are not required to program or debug with the SAM V71 MCU. Each InvenSense motion sensor has its own unique development kit (DK).

The DK-46230 comes with the necessary software, including an InvenSense Motion Link, a GUI-based development tool, and embedded Motion Drivers (eMD) for InvenSense motion sensors.

Embedded Motion Drivers (eMD) consists of a set of APIs to configure various aspects of the platform including motion sensor parameters such as full-scale range (FSR), output data rate (ODR), and sensor interface to host (UART, SPI).

Motion Link is a GUI-based development tool included with the platform. It can be used to capture and visualize the sensor data from the motion sensor.

The platform supports Atmel Studio and is compatible with Microchip Xplained Pro Extension boards. The Xplained Pro extension series evaluation kits offer additional peripherals to extend the features of the board and ease the development of customer designs.

Key Features

- *Microchip SAM V71 microcontroller with 2 MB Embedded Flash*
- *On-board Embedded debugger (EDBG) for programming and debugging*
- *Built in FTDI USB to UART interface for fast motion sensor data transfer*
- *USB connectors for host interface to software debug and data logging*
- *Board power supply through USB*

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