TDK Robokit Now Available at CDI
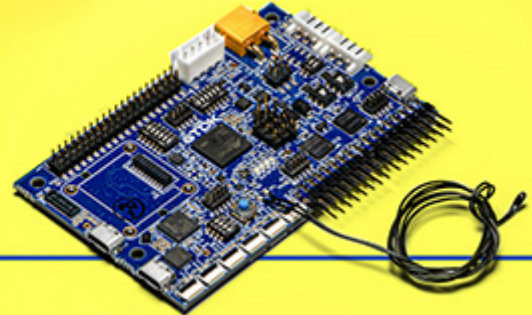
Description

TDK RoboKit1 Now Available at CDI

TDK RoboKit combines sensors, processors and actuators on a single board making it an ideal robotics platform for quick prototyping and ROS development.

RoboKit integrates key product offerings such as 6-axis IMU, industrial IMU modules, capacitive barometric pressure sensor, digital I²S microphone, temp sensor, ultrasonic Time of Flight (ToF) sensors, magnetometer and motor controller on a single PCB.

The open-sourced board supports ROS drivers and algorithms, making it an ideal platform for ROS hobbyists, educational institutions, and a multitude of Robotics developers. The **RoboKit** platform also provides out of the box integrated software solutions such as obstacle detection, floor type detection, cliff detection (not suitable for RVC application) and dynamic heading detection.

Part Numbers:

TDK_RoboKit1-DK	TDK_RoboKit1

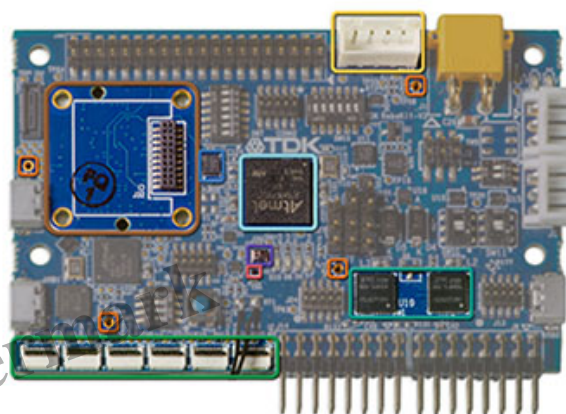| Download RoboKit1 Product Brief |
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Robokit Key Features:

Hardware Features:

- Multiple ToF modules (connected via flex cable)
- Industrial IMU module (connected via flex cable)
- 6 axes IMU
- Digital I²S Microphone
- Pressure Sensor
- Temperature Sensor
- Embedded Motor Controller
- AKM Magnetometer

Software Features:

- Range finder
- Obstacle detection
- Floor type detection
- Cliff detection
- Robovac/Heading
- Motor control

- Motion Controller: HVC 4223F
- Chirp CH101/201 Connectors
- Microphones: ICS-43434
- Industrial IMU: IIM-46230
- IMU: ICM-42688-P
- Pressure Sensor: ICP-10111
- MCU: ARM Cortex M7
- CAN Connector
- Magnetometer: AK09918C

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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, even if it means we need to recommend competitor's part.

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: InvenSense 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.

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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 customer service across the Americas. CDI delivers cutting edge power electronics by wrapping application support, development tools and design services around high-performance products from industry leading manufacturers.

Category

1. Ewave
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