# ROHM Semiconductor's Multi-Sensor Shield

Second generation ROHM sensor evaluation kit

The SENSORSHLD1-EVK-101 is a shield evaluation platform that integrates multiple ROHM sensor products on a single board. The shield uses standard Arduino shield interface pins, making it possible to connect to any evaluation kit with a shield interface header. The following sensors are included.

New Generation Sensor Shield
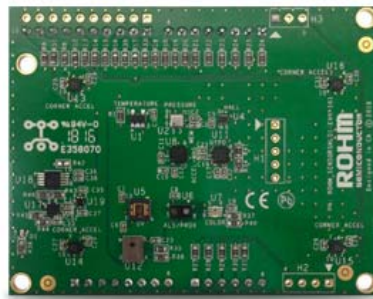
Core sensors included in the Sensor Shield

Analog Temperature Sensor (BDE0600G) ROHM
• Features a wide temperature range with excellent linearity

Digital Barometric Pressure Sensor (BM1383GLV) ROHM
• Delivers superior accuracy and temperature characteristics

Hall Switch Sensor (Omnipolar with Polarity Discrimination) (BU52014HFV) ROHM
• Enables waterproof/dustproof panel open/close detection

Geomagnetic Sensor (BM1422GMV) ROHM
• High accuracy design ideal for precision eCompass applications

Digital Color Sensors (BH1745) ROHM
• Capable of high accuracy detection under a variety of light sources

Optical Proximity Sensors and Ambient Light Sensors (RPR-0521) ROHM
• Low power consumption; improves screen visibility

Additional Functions

Digital Microphone
(Knowles SPM0423HD4H-WB)

• Footprint and connection specifically operable with the NXP MCU Lineup (LPCExpresso)

• Miniature, high performance, low power, top port silicon digital microphone with a single bit PDM output

Accelerometers
(Kionix KX122-1037, KX122-1048)

• Allows for four corner Accelerometer algorithm development

• Applications include individual sensor tap detection or smart card password interfacing

• All 4 Accelerometers are controllable using a single I^2C bus connection

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Analog UV Sensor (ML8511) LAPIS
• Optimized for UV monitoring

Digital Accelerometer (KX122-1037/KX122-1048) Kionix
• Provides high performance in an ultra-compact form factor

Digital Magnetometer and Accelerometer (KMX62) Kionix
• Ultra-low-power 6-axis sensor with user-selectable ODR

Digital Gyroscope and Accelerometer (KXG03) Kionix
• Compact combo sensor strikes an ideal balance between current consumption and noise performance with excellent bias stability over temperature

• Provides high performance in an ultra-compact form factor that allows for four corner Accelerometer algorithm development

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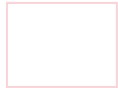
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