

New Product Announcement

Build People-Detection IoT Prototypes with Panasonic's Grid-EYE Eval Kit, Now at Mouser

October 17, 2017 – [Mouser Electronics](http://www.mouser.com), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the [Grid-EYE® evaluation kit](#) from [Panasonic](#). By combining Grid-EYE infrared (IR) [sensor](#) technology with [Bluetooth®](#) technology and software for IR detection of people and objects on one board, the kit enables engineers to develop rapid prototypes of [wireless](#) sensor [Internet of Things](#) (IoT) applications. Engineers can use the board in a standalone mode or connect it to an Arduino-compatible board to work with different interfaces.

The [Panasonic Grid-EYE evaluation kit](#), available from Mouser Electronics, combines a [Grid-EYE](#) high-performance IR array sensor, a nanopower Panasonic PAN1740 Bluetooth Smart module, and a Microchip SAM D21 microcontroller on a single PCB. The Grid-EYE sensors offers high accuracy, enhanced resolution, and long detection distance. The sensor integrates a sensitive MEMS sensor chip, a digital ASIC (I²C interface), and a silicon lens. The sensor features 64 thermopile elements in an 8x8 grid format that detects absolute surface temperature without any contact. Unlike conventional sensors, Grid-EYE uses a patented 60-degree silicon lens etched out of a silicon wafer, which, at less than 0.3 mm, is one of the smallest available in the market.

The Panasonic [PAN1740](#) is a single-model Bluetooth module optimized for [low power](#) that features a fully shielded case, integrated chip antenna, and onboard crystal oscillators. The module draws only 4.9 mA in transmit or receive mode, allowing the use of coin cell batteries with no reduction of signal range or transmit power. The onboard [Microchip ATSAMD21G18](#) microcontroller features 256 Kbytes of flash and 32 Kbytes of SRAM, support for USB 2.0 host and device, and Event System for inter-peripheral signaling.

In addition to the Grid-EYE evaluation kit, engineers can use the [Maxim Integrated MAXREFDES130#](#) Building Automation Shield and [MAXREFDES131#](#) Evaluation Kit with onboard Grid-EYE sensor to prototype designs that incorporate detection of multiple persons, identification of positions, and direction of movement. The contactless Grid-EYE sensors enable high-performance measurements for [security](#), household appliances, [lighting](#) control, [industrial](#) controls, and many other applications.

To learn more, visit <http://www.mouser.com/new/panasonic/panasonic-grid-eye-eval-kit/>.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 4 million products from over 600 manufacturers. Mouser offers 22 support locations around the world to provide best-in-class customer service and ships globally to over 550,000 customers in 170 countries from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit <http://www.mouser.com/>.

About Panasonic

Panasonic Corporation and its subsidiaries (Panasonic Batteries, Panasonic Electronic Components & Panasonic Industrial Devices) are innovators in consumer electronics and technology products. Guided by a mission to contribute to the progress and development of society and the well-being of people worldwide, Panasonic is a strong proponent of responsible electronics recycling and of reducing the global carbon footprint. Panasonic Corporation was named to the 2008 Global 100's list of the Most Sustainable Corporations in the World.

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