

New Product Announcement

TI Offers Single Device, Optical Power Meter Functionality with the OPT3002 Light-to-Digital Sensor, Now at Mouser

August 30, 2016 – [Mouser Electronics](http://www.mouser.com), Inc. is now stocking the [OPT3002 light-to-digital sensor](#) from [Texas Instruments](#) (TI). Greatly improving system performance over standard photodiodes and photoresistors, the fully-integrated OPT3002 delivers the functionality of an optical power meter all within a single small device. Offering a wide spectral bandwidth, flexible and automated light measuring over a 23-bit effective dynamic range, and a simplified software and set-up configuration, this [low-power](#) optical sensor is ideal for use in optical spectral systems that require detection of a variety of wavelengths, such as optically-based diagnostic systems, or even as a low-power, battery-operated wake-up sensor.

The [Texas Instruments OPT3002 light-to-digital sensor](#), available from Mouser Electronics, is an ambient light sensor (ALS) with a digital output integrated circuit. The OPT3002 features a wide spectral bandwidth that measures light within the device spectral range of 300 nm to 1,000 nm. Using the device's built-in, full-scale setting feature, the OPT3002 can take light measurements from 1.2nW/cm² up to 10mW/cm² without the need to manually select the full-scale ranges. This built-in functionality enables capturing of light measurements over a 23-bit effective dynamic range, with results compensated for dark-current effects and other temperature variations.

The OPT3002 captures measurements in either a continuous or single-shot fashion. The optical sensor measures the ambient light and reports the optical power readings directly from its two-wire, I²C- and SMBus-compatible serial interface. The interrupt pin system can also summarize measurement results with one digital pin. With fully-operational power consumption as low as 0.8 μ W at 0.8 SPS on a 1.8V supply, the OPT3002 Light-to-Digital Sensor can be incorporated into a broad array of low-power, [sensor](#)-based applications, including [security detection systems](#), system wake-up circuits, [medical](#) and scientific [instrumentation](#), [lighting](#) controls, tablet and notebook computers and [home automation](#).

[Texas Instruments' OPT3002 light-to-digital sensor](#) is available in a compact, 6-USON package that measures only 2.0 mm x 2.0 mm x 0.65 mm. To evaluate the OPT3002 under various conditions, the device is also supported by the [OPT3002EVM ambient light sensor evaluation module](#). The OPT3002EVM features a small form factor module based on two PCBs (a data acquisition board and test board), includes intuitive GUI software, and is designed with 100mil-spaced test points for easy experimentation with external controllers.

To learn more about TI's OPT3002 light-to-digital sensor and evaluation module, visit <http://www.mouser.com/new/Texas-Instruments/ti-opt3002-sensor/>.

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About Mouser Electronics

Mouser Electronics, a subsidiary of TTI, Inc., is part of Warren Buffett's Berkshire Hathaway family of companies. Mouser is an award-winning, authorized semiconductor and electronic component distributor, focused on the rapid introduction of new products and technologies to electronic design engineers and buyers. Mouser.com features more than 4 million products online from more than 600 manufacturers. Mouser publishes multiple catalogs per year providing designers with up-to-date data on the components now available for the next generation of electronic devices. Mouser ships globally to over 500,000 customers in 170 countries from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

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