New Product Announcement

Mouser Electronics Now Stocking NXP S32K MCUs with ISELED Communication for Next-Gen Smart LED Lighting

November 13, 2019 – Mouser Electronics, Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the S32K ISELED-enabled microcontrollers from NXP Semiconductors. Part of NXP's family of S32K automotive-qualified microcontrollers, the S32K ISELED-enabled devices offer the same feature set, but add the ISELED communication protocol. ISELED is an open alliance dedicated to providing next-generation smart LED lighting technology specifically geared toward automotive and industrial applications.

The ISELED protocol avoids expensive external processes and ensures well-balanced light parameters with tighter calibration and greater processing control for RGB LEDs. The NXP S32K ISELED-enabled microcontrollers provide the 32-bit Arm® Cortex®-based processing power and access to this ISELED ecosystem to offer a complete hardware and software solution that enables engineers to create the dynamic sequences and light parameters demanded by next-generation smart LED lighting applications.

The S32K ISELED-enabled devices, available from Mouser Electronics, are automotive-qualified microcontrollers with either an Arm Cortex-M0+ core (S32K11x families) or an Arm Cortex-M4F core (S32K14x families) that include a production license and a dedicated driver to run the ISELED serial communication protocol. The ISELED software driver runs within the production-grade SDK included in the S32 Design Studio IDE or in the AUTOSAR environment. Each microcontroller can serve as a single external master controller within the ISELED ecosystem due to its robust feature set and superior performance processing capabilities.

For low-cost evaluation and development, Mouser also offers the NXP S32K EVB evaluation boards, including the S32K144EVB. Based on the S32K144 microcontroller, the S32K144EVB offers a standard-based form factor compatible with the Arduino Uno pin layout, providing a broad range of expansion board options for quick application prototyping and demonstration.

To learn more, visit www.mouser.com/nxp-s32k-iseled-mcus.

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 5 million products from over 800 manufacturers. Mouser offers 27 support locations around the world to provide best-in-class customer service and ships globally to over 630,000 customers in 223 countries/territories 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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