US Headquarters
1000 N. Main Street, Mansfield, TX 76063, USA
(817) 804-3800 Main
www.mouser.com

New Product Announcement

Dual Isolation plus DC-DC Converter in Silicon Labs Si88x2x Modules Now at Mouser Electronics

August 13, 2015 – Mouser Electronics, Inc. is now stocking Si88x2x Dual Digital Isolators from Silicon Labs. The Si88x2x modules integrates proven digital isolator technology with an on-chip isolated DC-DC converter to provide regulated output voltages of 3.3V or 5.0V at peak output power of up to 5W with external power switch.

The Silicon Labs Si88x2x Dual Digital Isolators, available from Mouser Electronics, include a DC/DC controller with user-adjustable frequency for minimizing emissions, a soft-start function for safety, a shutdown option, and loop compensation. The Si88x2x modules' topology allows them to sense the output voltage on the secondary side without requiring additional optocouplers and support circuitry to bias those optocouplers. This allows the DC-DC converter to operate with excellent line and load regulation while reducing external components and increasing lifetime reliability.

The DC-DC converter works in conjunction with an external transformer to provide up to 5W of isolated power with a 24V input supply and an external switch to supply the secondary side of the Si88xx2x, as well as other circuits on the isolated side with a 5V supply. The ultra-low-power digital isolation channels offer substantial data rate, propagation delay, size, and reliability advantages over legacy isolation technologies. Data rates up to 100Mbps are supported, and all devices achieve propagation delays of only 23ns (max).

The Silicon Labs Si886xxISO-EVB Evaluation Kit, also available from Mouser Electronics, demonstrates the digital isolation capabilities of the installed Si88621ED-IS and its DC-DC converter performance. Convenient test points are included to measure and observe time varying currents and voltages to calculate relevant parameters like efficiency and load/line regulation.

The AEC-Q100-qualified and RoHS-compliant Silicon Labs Si88x2x Dual Digital Isolators are ideal for power supply, electric vehicle, industrial, and motor control applications.

To learn more, visit http://www.mouser.com/new/Silicon-Laboratories/silabs-si88x2x-isolators/.

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With its broad product line and unsurpassed customer service, Mouser caters to design engineers and buyers by delivering What's Next in advanced technologies. Mouser offers customers 21 global support locations and the latest, most technologically advanced components for their newest design projects. Mouser Electronics' website is updated daily and searches more than 10 million products to locate over 4 million orderable part numbers available for easy online purchase. Mouser.com also houses an industry-first interactive catalog, data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

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 500 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 492,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

About Silicon Labs

Silicon Labs Inc. is a leading global manufacturer of integrated-circuit (IC) products that combine world-class analog with high-speed digital and FLASH memory in a single, powerful chip. The combination of mixed-signal integration and in-system programmability offers tangible user benefits through higher component integration, greater design flexibility, faster time-to-market, superior system performance, and improved end-product differentiation.

Trademarks

– 30 –

Further information, contact:
Kevin Hess, Mouser Electronics
Vice President Technical Marketing
(817) 804-3833
Kevin.Hess@mouser.com

For press inquiries, contact:
Kelly DeGarmo, Mouser Electronics
Corporate Communications Manager
(817) 804-7764
Kelly.DeGarmo@mouser.com