

New Product Announcement

TI's UCC12050 and UCC12040 DC-DC Converters, Now Available at Mouser, Deliver Efficient Power to Isolated Circuits

February 27, 2020 – [Mouser Electronics](http://www.mouser.com), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [UCC12050](#) and [UCC12040](#) isolated DC-DC converters from [Texas Instruments](#) (TI). The high-efficiency converters are designed to provide efficient, isolated power to circuits that require a bias supply with well-regulated output voltages. The devices are ideal for a wide range of applications, including protection relays and smart breakers, PLC analog input and output modules, patient monitoring, and isolated voltage and current sensing.

TI's [UCC12050](#) and [UCC12040](#) converters, available from Mouser Electronics, use a proprietary architecture to integrate a transformer and DC-DC controller, providing 500 mW of isolated power with low electromagnetic interference (EMI) and high efficiency. Both devices provide protection features for impressive system robustness, in addition to synchronization capability and regulated 3.3 V or 5 V output options. The UCC12050 offers a 5 kV_{RMS} reinforced isolation rating, a surge capability of 10 kV_{PK}, and a working voltage of 1.2 kV_{RMS}. The UCC12040 converter comes with a 3 kV_{RMS} basic isolation rating, surge capability of 8 kV_{PK}, and a working voltage of 800 V_{RMS}.

The UCC12050 and UCC12040 converters are supported by the [UCC12050EVM-022](#) evaluation module. The module allows designers to evaluate the abilities and performance characteristics of the two converters, with an EVM layout that provides an example of a proper board layout for rated isolation and EMI performance.

To learn more, visit <https://www.mouser.com/new/texas-instruments/ti-ucc12050-converter/> and <https://www.mouser.com/new/texas-instruments/ti-ucc12040-converter/>.

As an authorized TI distributor, Mouser Electronics offers the broadest portfolio of the newest Texas Instruments semiconductor solutions, adding new products every day. Mouser is focused on the rapid introduction of new products and technologies, giving customers an edge and helping speed time to market. Over 800 semiconductor and electronic component manufacturers count on Mouser to help them introduce their products into the global marketplace. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each manufacturer.

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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