Mouser Electronics Now Stocking Texas Instruments DACx1416 High-Voltage Digital-to-Analog Converters

March 21, 2019 – Mouser Electronics, Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking DACx1416 digital-to-analog converters (DACs) from Texas Instruments (TI). The DACx1416 are a pin-compatible family of 16-channel, buffered, high-voltage-output DACs with 16-, 14-, or 12-bit resolution. The DACs address the specific requirements of all Mach-Zehnder Modulator (MZM) technologies and biasing topologies, making them suitable for optical networking applications, as well as industrial automation and test and measurement systems.

TI's DACx1416, available from Mouser Electronics, provide a holistic and highly optimized solution that requires minimal external components. The devices include a low-drift 2.5 V internal reference, eliminating the need for an external precision reference in most applications. A user-selectable output configuration enables full-scale bipolar output voltages of ±2.5 V to ±20 V, and full-scale unipolar output voltages from 5 V to 40 V, with independently programmable output range for each channel.

The integrated DAC output buffers can sink or source up to 25 mA, which limits the need for additional operational amplifiers, and each pair of channels can be configured to provide a differential output with offset calibration. The monotonic DACs provide high linearity of ±1 LSB integral nonlinearity (INL) and feature three dedicated A-B toggle pins that enable dither signal generation with up to three possible frequencies.

Mouser also offers the TI's DAC81416EVM evaluation module. The DAC81416EVM connects to a PC via the TI USB2ANY interface adaptor, enabling designers to access the onboard DAC81416 device's SPI programming interface through a graphical user interface (GUI).

To learn more, visit www.mouser.com/ti-dacx1416-dacs.

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 750 manufacturers. Mouser offers 23 support locations around the world to provide best-in-class customer service and ships globally to over 600,000 customers in more than 220 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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