



## New Product Announcement

### Mouser Electronics Now Stocking Analog Devices AD5753 Single-Channel DAC with HART Connectivity

**November 5, 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 the [AD5753](#) single-channel digital-to-analog converter (DAC) from [Analog Devices](#), Inc. Designed to meet the requirements of [industrial](#) automation and process control applications, the AD5753 provides robust diagnostic features, with enhancements that include background supply and temperature monitoring and an integrated 12-bit diagnostic analog-to-digital converter (ADC).

The [Analog Devices AD5753](#) DAC, available from Mouser Electronics, delivers a high-precision, fully integrated, single-chip solution for generating a unipolar, bipolar current, or voltage output. The 16-bit device operates from a wide power supply range of -33 V to +33 V, with a maximum operating voltage of 60 V between the two rails. Current or voltage output is available on a single terminal, and the device offers six current output ranges. The AD5753 also enables a Highway Addressable Remote Transducer® (HART) signal to be coupled on the current output for HART-compliant network connectivity.

Power dissipation on the AD5753 is minimized through the device's on-chip dynamic power control (DPC) functionality by regulating the supply voltage using the complementary buck DC-to-DC converters. The positive and negative DPC enables thermal management capabilities that, when used with the [ADP1031](#) micropower management unit, can deliver up to eight channel-to-channel-isolated channels at less than 2 W. The device's programmable power control (PPC) also enables faster than DPC settling time, which is specified at 15  $\mu$ s typical. Other features of the AD5753 include two external ADC input pins, a user-programmable offset and gain, an on-chip reference, and a highly robust architecture that incorporates output fault protection from miswire events.

Applications for the AD5753 include process control, actuator control, channel-isolated analog outputs, PLCs, and distributed control systems (DCS) applications. For development, the AD5753 is supported by the [EVAL-AD5753SDZ](#) evaluation board, also available from Mouser.

To learn more about the AD5753 DAC, visit [www.mouser.com/adi-ad5753-dac](http://www.mouser.com/adi-ad5753-dac).

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](http://www.mouser.com).

### **About Analog Devices Inc.**

Analog Devices is a leading global high-performance analog technology company dedicated to solving the toughest engineering challenges. We enable our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure, power, connect and interpret. Visit <http://www.analog.com>.

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