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Analog Devices' nanoDAC+™ Converters Expand Industry's Best D/A Converter Performance and Smallest Packages

NORWOOD, Mass.--(BUSINESS WIRE)-- Analog Devices, Inc. (NASDAQ: ADI) introduced today the AD5689R D/A converter. This 16-bit dual *nano*DAC+ continues the series of ADIs *nano*DAC® products offering high performance in smaller packages. With relative accuracy of ±2-LSB INL, 2-ppm/°C 2.5-V reference, and space saving packages, this combination allows analog designers to address a wider range of applications without having to trade off performance for footprint. The series provides a straightforward pin compatible 10-bit to 16-bit upgrade/downgrade path for applications in a wide range of markets including communications infrastructure, industrial process control, healthcare and instrumentation.

- Download data sheet, order samples and evaluation boards: http://www.analog.com/AD5689R
- Connect with engineers and ADI product experts on EngineerZone™, an online technical support community: http://ez.analog.com
- Find latest information on *nano*DAC solutions from ADI: http://www.analog.com/nanodac

The AD5689R also includes useful pin functions such as VLOGIC facilitating 1.8-V, 3-V and 5-V logic levels and a GAIN pin enabling the output range to be doubled. The series has both SPI and I2C interface options.

AD5689R 16-bit *nano*DAC+ Key Features:

- ±2 LSB-INL max - suits open loop applications
- 2-ppm/°C 2.5-V reference — saves board space and removes calibration requirements over temperature
- Total Unadjusted Error 2-mV - eliminates need for initial calibration/adjustment
- 3-mm × 3-mm 16-lead LFCSP and 16-lead TSSOP - for shrinking board/module sizes
- 4-KV HBM ESD rating - provides system robustness

Pricing, Availability and Dual *nano*DAC Options

Product	Sample Availability/ Full Production	Resolution	Integrated Reference	Interface	Price Each Per 1,000	Packaging
AD5689R	NOW	16-bit	Yes	SPI	$4.48	16-lead LFCSP, 16-lead TSSOP
AD5689	NOW	16-bit	No	SPI	$4.18	16-lead LFCSP, 16-lead TSSOP
AD5697R	NOW	12-bit	Yes	I2C	$2.80	16-lead LFCSP, 16-lead TSSOP
AD5687R	NOW	12-bit	Yes	SPI	$2.80	16-lead LFCSP, 16-lead TSSOP
AD5687	NOW	12-bit	No	SPI	$2.50	16-lead LFCSP, 16-lead TSSOP
AD5338R	NOW	10-bit	Yes	I2C	$1.96	16-lead LFCSP, 16-lead TSSOP
AD5313R	NOW	10-bit	Yes	SPI	$1.96	16-lead LFCSP, 16-lead TSSOP

The AD5689R can be designed into circuits for PLC, I/O cards applications with ADI's AD5750-2 which is a single-channel, low cost, precision voltage/current output driver amplifier.

About Analog Devices

Innovation, performance, and excellence are the cultural pillars on which Analog Devices has built one of the longest standing, highest growth companies within the technology sector. Acknowledged industry-wide as the world leader in data conversion and signal conditioning technology, Analog Devices serves over 60,000 customers, representing virtually all types of electronic equipment. Celebrating over 40 years as a leading global manufacturer of high-performance integrated circuits used in analog and digital signal processing applications, Analog Devices is headquartered in Norwood, Massachusetts, with design and manufacturing facilities throughout the world. Analog Devices' common stock is listed on the New York Stock Exchange under the ticker "ADI" and is included in the S&P 500 Index. For more information: http://www.analog.com

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