June 8, 2016

Sigma-Delta A/D Converters Improve Signal Quality Monitoring in Instrumentation, Energy and Healthcare Applications

NORWOOD, Mass.--(BUSINESS WIRE)-- Analog Devices, Inc. today introduced a series of 24-bit simultaneous sampling sigma-delta A/D converters for wide-bandwidth, high-density instrumentation, energy and healthcare equipment. The new AD7768 series includes a power scalable modulator and digital filter on each channel to enable the synchronized, precise measurement of both ac and dc signals in instrumentation applications, including modular data acquisition, audio test, and asset condition monitoring. The high throughput, fast settling response, and simultaneous sampling of the AD7768 series enables faster test times, which reduces testing costs and allows more efficient instrumentation design. The AD7768 series' high channel count provides healthcare devices, such as clinical vital signs monitoring equipment, with the means to significantly expand channel density while maintaining low power and high input bandwidth. The new converters also deliver improved power quality monitoring through the ability to detect harmonic distortion over a wider bandwidth for detection and diagnosis of grid imbalance. A scalable, easy-to-configure layout also allows system designers to save additional time and cost by using a single converter series across multiple equipment platforms, performance points and measurement ranges.

This Smart News Release features multimedia. View the full release here:
http://www.businesswire.com/news/home/20160608005036/en/

- View product page, download data sheet, order samples and evaluation boards: http://www.analog.com/AD7768
- Connect with engineers and experts on EngineerZone®, an online technical support community: https://ez.analog.com/community/data_converters

Sigma-Delta A/D Converters Improve Signal Quality Monitoring in Instrumentation, Energy and Healthcare Applications (Photo: Business Wire)

The 24-bit, 8-channel AD7768 and the 24-bit, 4-channel AD7768-4 have a 6-dB dynamic range advantage over the nearest competing products and deliver the industry's best integral non-linearity (INL) performance across the widest available bandwidth, in addition to achieving 10 times better offset, a 30 times reduction in gain error, and a 2 times improvement in gain drift.

Pricing and Availability

Product	Output Data Rate	Resolution	Channel Count	Availability	Price Each Per 1,000	Packaging
AD7768	256 kSPS	24-Bit	8	Now	$18.95	64-lead LQFP
AD7768-4	256 kSPS	24-Bit	4	Now	$10.75	64-lead LQFP
AD7761	256 kSPS	16-Bit	8	Now	$7.75	64-lead LQFP

About Analog Devices
Analog Devices (NASDAQ: ADI) designs and manufactures semiconductor products and solutions. We enable our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure and connect. Visit http://www.analog.com

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Analog Devices, Inc.
Joe Dussi, 781-937-1216
joe.dussi@analog.com
or
Porter Novelli
Andrew MacLellan, 617-897-8270
andrew.maclellan@porternovelli.com

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