



November 13, 2012

Analog Devices' Data Acquisition IC Simplifies Industrial and Instrumentation Equipment Design

ADI's ADAS3022 integrates a complete precision data acquisition analog signal chain in a single integrated circuit.

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) (ADI), the global leader in data-conversion technology*, today introduced a highly integrated data acquisition IC (integrated circuit) that uses one-third the board space of competing discrete devices to help engineers simplify the design and reduce the size of advanced industrial data acquisition systems. The new 16-bit, 1-MSPS (million-samples-per-second) ADAS3022 data acquisition IC is effective for power-line monitors, process and motor control, patient monitoring, and other industrial and instrumentation systems that operate within the ± 10 -V industrial range.

- Download data sheet, view product page, and request samples: <http://www.analog.com/ADAS3022>
- Get support at ADI's EngineerZone™ online technical support community <http://ez.analog.com/welcome>

"With a dominant global data conversion market share of approximately 48.5 percent in 2011, Analog Devices is considered by Databeans as the guiding force in the cutting edge data acquisition and signal conditioning market. With unique new products such as the ADAS3022, which promises very high performance in a smaller form factor, Analog Devices remains responsible for many of the high-level advancements that drive this dynamic industry forward," said Matthew Scherer, market analyst, Databeans Inc. "As a result of such product releases, Databeans believe that Analog Devices is well positioned to remain the dominant player in this market for years to come."

The ADAS3022 data acquisition IC integrates ADI's 16-bit PulSAR® successive-approximation A/D converter core with high-impedance input buffers and a 7-stage on-chip PGIA (programmable-gain instrumentation amplifier). The ADAS3022 includes an 8-channel, low-leakage multiplexer and precision low-drift 4.096-V reference. With eight data channels and delivering full 16-bit dynamic range, the new IC is optimized to interface with a wide range of sensors running from ± 10 V to as low as ± 640 mV.

The ADAS3022 offers a complete factory calibrated and tested signal chain. This addresses the settling time, signal buffering, level shifting, noise amplification/rejection and other analog signal-conditioning challenges that were once a standard part of the system design process.

Recommended Complementary Components

Complementary components for the ADAS3022 include the [ADR381 band gap voltage reference](#), [ADR434x XFET voltage reference](#), [ADR454x ultra-low-noise voltage reference](#), [ADP1613/14 step-up PWM switching converter](#), [ADP1715 linear regulator](#), [ADP3334 linear regulator](#), [ADP7102/04 CMOS low-noise LDO](#), [AD8031/32 low power reference buffer](#), and [ADA4841 low power ADC drivers](#) for auxiliary input pair (AUX $\pm$). An evaluation board is also available that allows system designers to configure the ADAS3022 without engaging in circuit-board design or writing software code.

Pricing and Availability

Product	Sampling	Temperature Range	Price Each Per 1,000	Packaging
ADAS3022	Now	—40°C to +85°C	\$14.95	6 mm x 6 mm 40-lead LFCSP ((lead-frame chip-scale package)

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. Analog Devices is headquartered in Norwood, Massachusetts, with design and manufacturing facilities throughout

the world. Analog Devices is included in the S&P 500 Index.

* [*Analog Devices, Inc.*](#) leads the worldwide data converter market with a 48 percent share, according to industry analyst firm [*Databeans, Inc.*](#) in its market research report titled "2011 Data Converters." Analog Devices' share is larger than the combined market share of the nearest eight competitors.

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Source: Analog Devices, Inc.

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