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September 13, 2016

Data Acquisition System Protects Smart Grid Equipment from Harmful Faults While Improving Power Delivery

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) (ADI) today announced a data acquisition system (DAS) that enhances smart grid equipment monitoring in order to protect equipment from harmful system faults and improve power delivery to residences and businesses. As electricity demand grows and renewable energy generation is added, utility companies must increase the scope, granularity and accuracy of monitoring points across the distribution grid. Current data acquisition systems often require complex design work and expensive integration that can exceed the needs of the application. The new DAS supports Class 0.2 measurement accuracy and enables the development of faster, more sensitive and affordable fault detection equipment that helps protection relay operators minimize the high costs associated with repairing and replacing damaged components.

This Smart News Release features multimedia. View the full release here:

<http://www.businesswire.com/news/home/20160913005887/en/>



- | View the product page, download data sheet, order samples and evaluation boards:
<http://www.analog.com/AD7616>
- | Read about the AD7616's application in power line monitoring:
<http://www.analog.com/media/en/news-marketing-collateral/product-highlight/AD7616-Product-Highlight.pdf>
- | Learn about ADI's protective relaying (Power Line Monitoring):

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<http://www.analog.com/en/applications/markets/energy/transmission-distribution/protective-relaying.html>

- | Learn about ADI's precision converter product portfolio:
<http://www.analog.com/en/products/power-management/battery-management/battery-charger-ic.html>
- | Connect with engineers and ADI product experts on EngineerZone®, an online technical support community:
https://ez.analog.com/community/data_converters/precision_adcs

The AD7616 DAS simplifies designs and lowers system costs by reducing the need for multiple parts in high-channel count applications by integrating dual simultaneous sampling of 16 channels. The AD7616 operates from a single 5 V supply and

can accommodate ± 10 V, ± 5 V, and ± 2.5 V true bipolar input signals while sampling at throughput rates up to 1 MSPS per channel pair. Additionally, the device's input structure eliminates the need for additional external protection circuits or external signal conditioning that add cost. On-chip filtering and high input impedance (1M ohm) eliminate the need for driver op-amps and external bipolar supplies. High accuracy on-chip ADCs provide a 90 dB SNR, enabling Class 0.2 measurement accuracy compliance and producing more accurate, reliable, time coherent data. Higher SNR performance of 92 dB can be achieved by using the on-chip oversampling mode.

The AD7616 DAS is suitable for a range of distribution applications such as relay protection for low-voltage distribution and feeder terminal units. The new device is also ideal for multiphase motor control and industrial instrumentation applications.

Product Pricing and Availability

Product	ADC Resolution	ADC Channels	Samples Available	Full Production	Price Each Per 1,000	Packaging
AD7616	16-bit	16	Now	October 2016	\$11.96	80-lead LQFP package

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 worlds with unmatched technologies that sense, measure and connect.

Visit <http://www.analog.com>.

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Analog Devices, Inc.
Linda Kincaid, 781-937-2572
linda.kincaid@analog.com

or
Porter Novelli
Andrew MacLellan, 617-897-8270
andrew.maclellan@porternovelli.com

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