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Analog Devices Introduces New Family of Digital Isolator Devices Optimized for SPI Communications Applications

Based on ADI's award winning iCoupler® digital isolator technology, the ADuM315x SPIsolator™ family delivers six times the clock speed at as little as 1/5th the area and cost of competing optocoupler and digital isolator solutions.

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](#) (NASDAQ: ADI), a global leader in high-performance signal processing technology, today introduced a new family of digital isolator devices optimized for serial peripheral interface (SPI) communications systems. The ADuM315x SPIsolator™ [digital isolator](#) family is based on ADI's award-winning [iCoupler® digital isolator](#) technology, which has been shipped in volumes exceeding one billion channels.

Supporting up to 40-MHz SPI clock speeds, the new digital isolators are over six times faster, over 80 percent smaller and cost as much as 85 percent less than competing optocoupler- or digital isolator-based solutions. Faster SPI clock speeds enable higher throughput in data acquisition systems, allowing for higher performance and more rapid system response times. A high level of functional integration provides system designers with a simple solution for [isolating high-speed SPI signals](#) along with commonly required low-speed status and control signals in a single package.

The ADuM315x family supports a range of high-data-rate, SPI communications applications including distributed control systems, programmable logic controllers, and sensor monitors used in industrial automation, instrumentation equipment and motor controls. [Watch a video](#) of the ADuM315x SPIsolator family: <http://www.analog.com/SPIsolatorVideo>.

- Download data sheet, user guide or order samples:

www.analog.com/SPIsolator

- [Mouser](#) and [DigiKey](#) are stocking evaluation boards.
- Connect with ADI engineers on EngineerZone™, an online Interface and Isolation technical support community: <http://ez.analog.com/community/interface-isolation>

More About the ADuM315x SPIsolator Family

The highly integrated ADuM315x SPI digital isolator family simplifies the design of a complete SPI digital isolation solution by using just three components, compared to the 18 to 32 components required by alternative digital isolator- or optocoupler-based solutions. The ADuM315x family features low propagation delay and jitter in the CLK, MO-SI, MI-SO and SS channels to support SPI clock rates of up to 40 MHz. The new digital isolators also support the maximum sample rate for select ADI 12-, 16- and 18-bit precision A/D converters. The family has a 3.75 kVrms isolation rating and will be followed later in 2014 by SPIsolator devices rated to 5 kVrms.

- The ADuM3150 supports a delayed clock output on the master side of the part that can be used with an additional general-purpose port on the master to support up to 40-MHz clock speeds.
- The ADuM3151, ADuM3152 and ADuM3153 provide four high-speed channels and three additional independent, low-data-rate channels in different configurations.
- The ADuM3154 digital isolator provides a slave-select multiplexing system that allows up to four slave devices to be serviced from one isolator.

Pricing and Availability

Product	Sample Availability	Price Each per 1,000	Package
ADuM3150A	July	\$3.10	20-lead SSOP
ADuM3151A	July	\$2.15	20-lead SSOP
ADuM3152A	July	\$2.15	20-lead SSOP

ADuM3153A	July	\$2.15	20-lead SSOP
ADuM3154A	July	\$2.15	20-lead SSOP
ADuM3150B	July	\$3.10	20-lead SSOP
ADuM3151B	July	\$2.80	20-lead SSOP
ADuM3152B	July	\$2.80	20-lead SSOP
ADuM3153B	July	\$2.80	20-lead SSOP
ADuM3154B	July	\$2.80	20-lead SSOP
Product	Availability	Price Each	Package
EVAL-ADUM3150Z	Now	\$49	Evaluation Board
EVAL-ADUM3151Z	Now	\$49	Evaluation Board
EVAL-ADUM3154Z	Now	\$49	Evaluation Board

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

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