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Low Cost, Octal Ultrasound Receiver with On-Chip RF Decimator and JESD204B Serial Interface

Analog Devices' AD9675 octal ultrasound analog front end (AFE) eases system processing burden while reducing I/O data routing and simplifying design

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) (NASDAQ: ADI) introduced today the AD9675 8-channel [Ultrasound Analog Front End \(AFE\)](#) with on-chip RF decimator and [JESD204B serial interface](#), designed for mid- to high-end portable and cart-based medical and industrial ultrasound systems. The device integrates eight channels of low-noise amplifier, variable-gain amplifier, anti-aliasing filter, and 14-bit A/D converter with the industry's highest sample rate (125 MSPS) and best SNR (signal-to-noise ratio) performance (75 dB) for enhanced ultrasound image quality. The on-chip RF decimator enables the ADC to be oversampled providing increased SNR for improved image quality while maintaining lower data I/O rates. The 5-Gbps JESD204B serial interface reduces ultrasound system I/O data routing compared to other data interface standards by as much as 80%. These features simplify ultrasound board design, while better addressing industry demand for higher data rates, larger channel counts and greater image resolution. A second model, the AD9674, offers the same basic functionality but is available with standard LVDS interface. The AD9675 and AD9674 are the latest additions to Analog Devices' award-winning [octal ultrasound receiver portfolio](#).



The AD9675 and AD9674 are available in a space-saving 144-ball, 10 mm x 10 mm BGA package and are pin compatible with the AD9670/AD9671, providing easy migration for those designs that require a reduced cost and limited digital functionality.

- View product page, download data sheet and order samples: [AD9675](#), [AD9674](#)
- To learn more about ultrasound and medical imaging applications visit: [Medical Imaging](#)

Pricing, Availability and Complementary Components

Analog Devices AD9675 Low Cost, Octal Ultrasound AFE with On-Chip RF Decimator and JESD204B Serial Interface, is the latest addition to the company's award-winning octal ultrasound receiver family. (Photo: Business Wire)

Product	Sample Availability	Full Production	Price Each Per 1,000	Packaging
AD9675	NOW	Apr 2013	\$68.00	144-ball, 10mm x 10mm BGA
AD9674	NOW	Feb 2013	\$62.00	144-ball, 10mm x 10mm BGA

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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