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Analog Devices Delivers Industry's Highest Signal Bandwidth with Dual 16-bit D/A Converter

ADI's 2.8-GSPS D/A converter achieves 70 percent wider bandwidth than competing devices, extending the range and reducing development costs for radios supporting emerging E-band frequencies.

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) (NASDAQ: ADI), the world's data converter market share leader, introduced today an industry first 2.8-GSPS [dual 16-bit converter](http://www.analog.com) for telecommunications system manufacturers that require microwave frequencies in point-to-point wireless backhaul equipment. The 16-bit AD9136 and 11-bit AD9135 [dual D/A converters](http://www.analog.com) achieve up to 70 percent higher signal bandwidth than competing devices while enabling designers to support emerging E-band (71-76 GHz and 81-86 GHz) frequencies being adopted by wireless carriers to support steadily increasing demand for high-speed mobile voice and data transfers. The new converters have a maximum sample rate of 2.8 GSPS, which allows multicarrier generation up to the Nyquist frequency. Watch this video for more about the AD9136: www.analog.com/AD9136video.

- To learn more, order samples and evaluation boards:

<http://www.analog.com/AD9135>

<http://www.analog.com/AD9136>

- [Mouser](http://www.mouser.com) and [DigiKey](http://www.digikey.com) are stocking evaluation boards and silicon.
- To view more GSPS data converter technical content: <http://www.analog.com/en/content/Wideband-RF/fca.html>
- Connect with engineers and experts on [EngineerZone](http://ez.analog.com)™, an online technical support community: https://ez.analog.com/community/data_converters
- Find out more about ADI's communications solutions: <http://communications.analog.com/en/segment/cmmn.html>

The AD9136/5 D/A converters support complex input data rates of up to 2.12 GSPS per D/A converter using a flexible, 8-lane, 10.6 Gbps JESD204B interface. The new devices achieve better than -80dBc spurious-free dynamic range (SFDR) and have exceptional noise performance of -163dBm/Hz that provide high quality synthesis of wideband signals. The industry-leading combination of speed and noise performance results in faster, cleaner data transmission and reduces infrastructure costs by allowing wireless carriers to space point-to-point microwave repeaters farther apart.

The AD9136/5 converters require only 1.4 W of power under full operating conditions and integrate a low-noise PLL (phase-locked loop), which lowers bill of materials costs and simplifies system design by eliminating the need for a high-performance source clock. The new converters also include integrated interpolation filters with selectable interpolation factors of 1, 2, 4, and 8.

In a point-to-point radio system design, the AD9136/5 are optimized to interface seamlessly with ADI's ADRF672x analog quadrature modulators.

Pricing and Availability

Part Number	Availability	Unit Price	Package
AD9136BCPZ	NOW	\$60.00	88-lead LFCSP
AD9136-EBZ	NOW	\$495.00	Evaluation Board
AD9136-FMC-EBZ	NOW	\$495.00	Evaluation Board w/FMC
AD9135BCPZ	NOW	\$51.00	88-lead LFCSP
AD9135-EBZ	NOW	\$495.00	Evaluation Board
AD9135-FMC-EBZ	NOW	\$495.00	Evaluation Board w/ FMC

About Analog Devices, Inc.

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. www.analog.com.

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