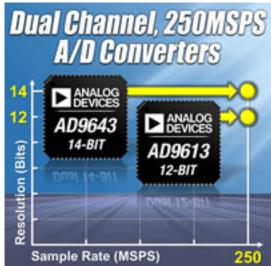
Data Converters and IF Diversity Receivers Maximize Receiver Sensitivity, Dynamic Range



Analog Devices Inc. (ADI) introduced four high-speed data converter products that support signal sampling rates necessary to accommodate multi-carrier radio platform requirements for today's 3G and 4G cellular infrastructure communication standards, including CDMA2000, UMTS/LTE, TD-SCDMA and TD-LTE. The' AD6649 and AD6643 IF diversity receivers and AD9643 and AD9613 high-speed A/D converters complement other receive chain components to simplify control loops and maximize base station receiver sensitivity and dynamic range, according to the company. When paired with the company's dual-channel ADL5202 VGA (variable gain amplifier), the AD6649 IF receiver ensures that both weak and strong incoming cell phone call signals are effectively received and processed. The VGA is directly controlled by the AD6649 which can use the 1-dB gain step resolution in a simplified AGC (automatic gain control) loop.

Analog Devices Inc.

800-262-5643, <u>www.analog.com</u> [1]

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[1] http://www.analog.com

Page 1 of 1