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Industry's First 256-Channel, 24-Bit Current-to-Digital Converter Module for CT Scanners Simplifies Design and Reduces System Costs

ADI's new current-to-digital converter module doubles channel count while requiring 33 percent less real estate than alternative devices, plus mounts on standard PCB substrates.

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) (NASDAQ: ADI), a global leader in high-performance signal processing technology and leading provider of ICs for medical imaging, introduced today a [current-to-digital converter](#) module that reduces the cost and complexity of [computed tomography \(CT\) scanner system](#) design. The ADAS1131 is a 256-channel, 24-bit current-to-digital converter module that is available in a 15-mm² BGA package with a 0.8-mm pitch. The device uses approximately 33 percent less PCB area than alternative devices that offer only half the channel density. The 0.8-mm pitch packaging feature enables designers to mount the ADAS1131 on a standard PCB substrate, a less costly and higher yield option than high density, specialized PCB substrates requiring laser vias.

- Download the data sheet or order an evaluation board: <http://www.analog.com/ADAS1131>
- Find healthcare application and design information here: <http://healthcare.analog.com/en/segment/health.html>
- Connect with ADI engineers on [EngineerZone™](https://ez.analog.com/welcome), an online technical support community <https://ez.analog.com/welcome>

In addition to embedding 256 low-power, low-noise, low-input-current integrators, simultaneous sample-and-hold circuitry, and two high-speed A/D converters with configurable sampling rates, the ADAS1131 module incorporates all associated internal buffers, decoupling and by-pass capacitors for data acquisition, further reducing component count and simplifying board layout. The new converter consumes 3 mW of power per channel at any throughput, which is the same as competing devices that integrate only 128 channels.

Pricing and Availability

Part Number	Availability	Resolution	Channel Count	Price Each Per 1,000	Price Per Channel	Packaging
ADAS1131	Now	24-bit	256	\$304.00	\$1.19/ch	15-mm x 15-mm 324-ball CSP 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.

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