

New Product Announcement

Healthy 16-bit Meter-on-Chip Precision with Analog Devices' ADuCM350 Now at Mouser

September 29, 2014 – [Mouser Electronics](http://www.mouser.com), Inc. is now stocking the [ADuCM350 16-Bit Precision Low Power Meter-On-A-Chip](http://www.analog.com/ADuCM350) from [Analog Devices](http://www.analog.com). Optimized for system-level performance and signal measurement accuracy, the ADuCM350 is a complete, coin cell powered, high precision, meter-on-chip that targets portable applications that monitor health and wellness. The device features a precision analog front end (AFE) with a 16-bit 160-kSPS analog-to-digital converter (ADC), +/-0.2% accurate voltage reference and a 12-bit digital-to-analog converter (DAC). This single-chip, scalable platform supports full product development roadmaps from entry-level to feature-rich devices, and its sensor fusion functionality allows designers to expand product measurement capabilities.

The [Analog Devices ADuCM350 16-Bit Precision Low Power Meter-On-A-Chip](http://www.analog.com/ADuCM350), available from Mouser Electronics, features four voltage measurement channels, up to 8 current measurement channels, and an impedance measurement DFT engine. The ADuCM350 also includes a 16MHz ARM® Cortex-M3 core with 384KBytes of Flash memory, 32KBytes of SRAM, and 16KBytes of Flash-configured EEPROM memory - all with the I/O connectivity to support portable meters with display, USB communication, and active sensors.

Engineered with extensive power management capabilities, the ADuCM350 provides dynamic and software-controlled clock and power gating. The device is coin-cell battery compatible, has a 2.0V to 3.6V hibernate operation, a 2.5V to 3.6V active measurement range, a power management unit (PMU), power-on reset (POR) and power supply monitor (PSM).

The ADuCM350 communicates through a variety of interfaces, including an integrated audio driver for a beeper as well as an I2S port, LCD display controller (parallel and serial), LCD segment controller, serial peripheral interface (SPI), I²C, UART peripheral interfaces and programmable GPIOs.

Designed for high precision amperometric, voltametric, and impedometric measurement capabilities, the ADuCM350 supports a wide range of [low-power applications](#) ranging from [wearable health monitoring devices](#), such as smart watches and sophisticated pedometers, to [point-of-care diagnostics and vital signs monitoring devices](#) that shorten hospital stays and allow for high quality monitoring from home.

The Analog Devices ADuCM350, is offered in an 8mm x 8mm, 120-pin CSP BGA package, and has a fully scalable development platform that supports rapid feature expansion.

To learn more, visit <http://www.mouser.com/new/Analog-Devices/adi-aducm350-meter-on-chip/>.

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About Mouser Electronics

Mouser Electronics, a subsidiary of TTI, Inc., is part of Warren Buffett's Berkshire Hathaway family of companies. Mouser is an award-winning, authorized semiconductor and electronic component distributor, focused on the rapid introduction of new products and technologies to electronic design engineers and buyers. Mouser.com features more than 4 million products online from more than 500 manufacturers. Mouser publishes multiple catalogs per year providing designers with up-to-date data on the components now available for the next generation of electronic devices. Mouser ships globally to over 400,000 customers in 170 countries from its 492,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit <http://www.mouser.com>.

About Analog Devices

Innovation, performance, and excellence are the cultural pillars on which Analog Devices (ADI) 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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