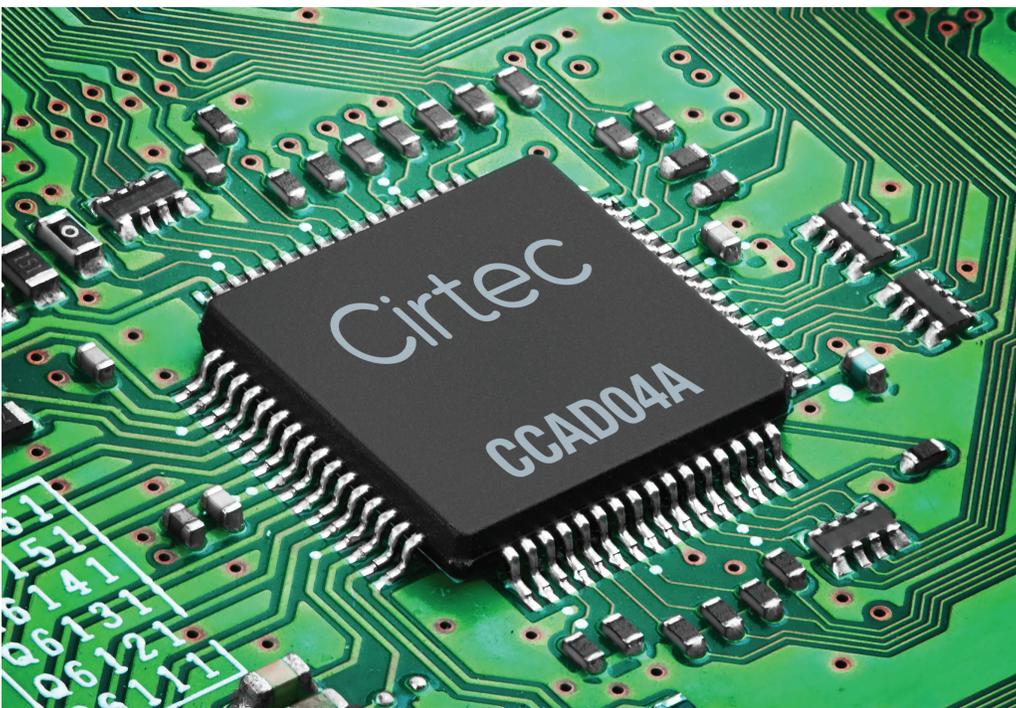


Meet your Custom Sensor Development Challenges with Analog & Mixed-Signal ASICs



Introduction

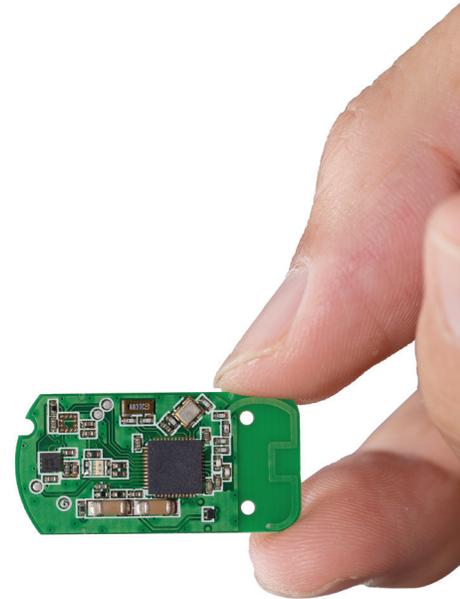
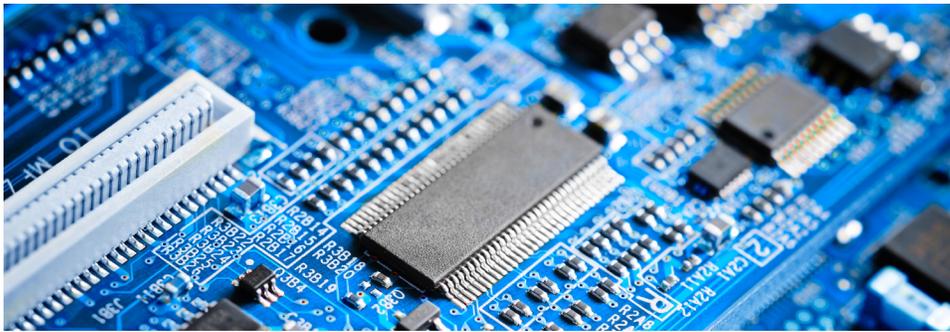
The emerging Internet of Things (IoT) is built on an innumerable variety of sensors, and an increasing proportion of these sensors are built on application-specific integrated circuits (ASICs). As our health and medical care relies more and more on sensor-rich wearable and implantable devices, ASICs offer substantial benefits over stock components, including smaller footprint, lower power and noise, more secure IP, and significant improvements to product reliability, functionality, and performance.

TECHNICAL BRIEF

MEET YOUR CUSTOM SENSOR DEVELOPMENT CHALLENGES WITH ANALOG & MIXED-SIGNAL ASICS

An ASIC for Every Sensor

Given the speed at which these sensor applications are multiplying, few product developers have the resources, experience, and expertise to design & produce ASICs for their applications, which makes choosing an outsourcing partner critical.



Through its acquisition of Cactus Semiconductor, Cirtec Medical can now leverage nationally recognized ASIC development capabilities using premier wafer fabrication, wafer probe, IC assembly, and IC test facilities to offer turnkey product design and production solutions for analog and mixed-signal ASICs for a wide variety of Medical and IoT applications.

In addition to offering ASIC sensor solutions tailored to virtually any application, Cirtec can help ensure your product goes to market on time and within budget.

Analog and Mixed-Signal Integrated Circuit Design

Analog and Mixed-Signal ICs are as ubiquitous as they are valuable to our daily lives. They are instrumental to the sensors embedded in virtually every electronic device we use, from smart phones to automotive systems to wearable devices and medical equipment. The design of these ICs is highly complex

and thus requires a high degree of expertise and a large engineering effort. For this reason, most analog ICs are developed as stock components where a single design effort can apply to many different applications. As the sophistication of these devices increases, and the desired size and power consumption decreases, product developers often find that stock components cannot provide sufficient solutions for their specific applications. To address that shortcoming, the best approach is to team up with a highly capable turnkey ASIC provider to develop an "Application Specific" IC.

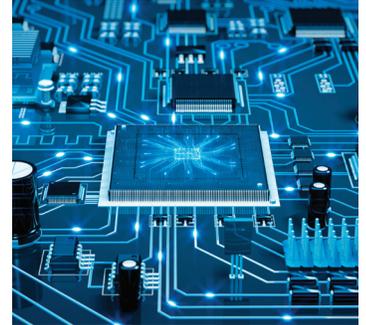
At Cirtec Medical, our custom Analog & Mixed-Signal design capabilities have earned a national reputation for ultra-low-power design, complex power management, and device miniaturization for implantable, portable, and wearable medical applications, and we now offer that capability to tangential markets and applications such as Sensors and IoT.

TECHNICAL BRIEF

MEET YOUR CUSTOM SENSOR DEVELOPMENT CHALLENGES WITH ANALOG & MIXED-SIGNAL ASICS

Contact Cirtec Medical

Cirtec Medical is a leading provider of design and contract manufacturing services for complex medical devices, including active implants and interventional catheters and delivery devices. We provide world-class expertise in the design and manufacture of state-of-the-art analog and mixed-signal ICs. Operating on a global footprint, our manufacturing capabilities encompass premier wafer fabrication, wafer probe, IC assembly, and IC test facilities. To learn more about how we can optimize your sensor performance, power use, and footprint, and make you more competitive, contact us at www.cirtecmed.com.



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