



2008 Medical Solution Profile

Analog Devices, Inc.

High Performance ICs for Medical Imaging, Patient Monitoring, and Instrumentation

For over forty years, Analog Devices has defined innovation and excellence in signal processing. ADI's standard and application-tuned data converters, amplifiers, microcontrollers, low dropout regulators, MEMS, and digital isolators offer unequalled performance, size, cost, and power advantages to a broad array of medical imaging, patient monitoring, and instrumentation designs.

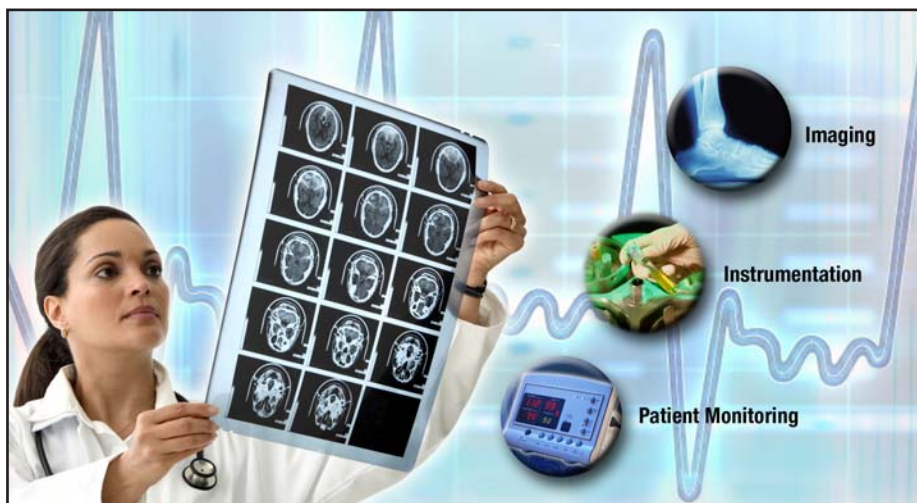
Customer input and feedback are an integral part of ADI's IC development process, and today we enjoy a strong relationship with virtually all major medical device manufacturers. This includes market leaders in ultrasound, CT and PET scanners, ECGs, infusion pumps, blood analysis systems, pulse oximetry, and automated external defibrillators (AEDs).

User Experience Defines the Design; ADI Defines the Possibilities

ADI believes product differentiation is driven by user experience. In the medical market, our focus on user experience takes on profound meaning for both the design engineer and the end customer. Designers of medical devices want patients and practitioners to reap the benefits of improved image quality, faster diagnostics, reliable dosage administration, and user-friendly interfaces. To achieve these goals they turn to their preferred IC supplier, Analog Devices.

ADI's Innovative Technology

ADI's *iCoupler*® digital isolation technology eliminates design difficulties such as excessive power consumption, large timing errors, and constraining data rate limitations commonly associated with optocouplers.



Compliant with UL, CSA, VDE, and IEC 60601-1, the ADuM240x *iCoupler* family is available with a variety of channel configurations.

Capacitive Touch Sensing

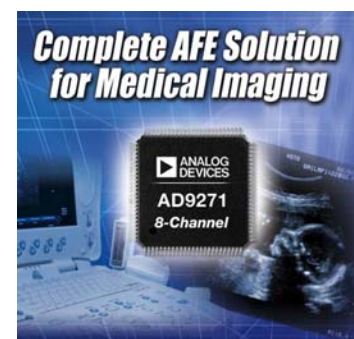
CapTouch™ capacitance-to-digital converter (CDC) touch sensor technology enables highly accurate and responsive user interfaces which are completely sealed from dust or dirt. With on-chip environmental calibration, CapTouch can interface to external capacitance sensors implementing functions such as capacitive buttons, scroll bars, joy pads, or as a combination of sensor types.



Integrated Analog Front End (AFE)

The AD9271 is a complete ultrasound AFE solution, integrating eight data channels on a single chip, allowing designers to reduce the size of the signal path for mobile ultrasound systems by 50% and lowering

power requirements by 25%, all while achieving the performance standards required in critical care settings.



To experience what Analog Devices ICs can do for your medical designs, visit www.analog.com/medicalICs

ADI is a member of Continua Health Alliance, an international group of technology, medical device, and health and fitness leaders, dedicated to making personal telehealth a reality.

