How are you influencing patient management devices?

Rudye McGlothlin
Product Marketing Engineer, Texas Instruments

There is a tipping point approaching in the area of patient monitoring and personal data management that is sure to fundamentally change our relationship to our health. This is being brought about by the sudden intersection of cheap data storage; small and persistent computing; compelling, often socially dynamic, software solutions; and accessible sensor technology. The desire of the individual to monitor and act on personal physiological data has never been greater or more achievable.

TI's new ADS1298 analog front end (AFE) is laying the groundwork to bring in one of the body's most important diagnostic signals—the electrocardiogram (ECG)—into this revolution. This device takes all of the features and functions that are needed for an ECG system and integrates them into a single chip. This integration provides customers with significant savings over existing solutions in all areas: size, power, cost, and reliability. The ADS1298 allows biopotential monitoring to become commonplace in much the same way that the integration of telephony and computing functions into a few ICs have made constant communication routine.

As a complete mixed-signal front end for biopotential measurement, the ADS1298, and the rest of the product family, are key enablers to make ECG measurement ubiquitous and accelerate the way we do healthcare.

Chris Mertens
Vice President, Healthcare, HP PSG

HP is focused on understanding healthcare needs and developing new technologies to simplify patient care. We want to make sure that our products enable solutions in any number of unique medical environments. For instance, we are working with Parental Health, a new PC application specifically designed for the HP TouchSmart 9100 that allows seniors to connect face-to-face with doctors, book medical appointments, or dispatch a nurse in an emergency. We recognize that as life spans continue to lengthen, more senior citizens are opting to maintain their independence, and this application gives them the peace of mind to remain at home longer. We've also introduced our EHReady program to give physicians customized, end-to-end solutions of hardware, software, and services. With proven EHR software from partners like Quest Diagnostics, HP's hardware and services allow hospitals to make a smooth transition to using EHR systems. Different healthcare environments call for different hardware, so we've designed our tablet PCs, notebooks, desktops, workstations and thin clients, as well as digital signage and smart phones, to be able to handle the rigors of patient care.

Alex Brisbourne
President and COO, KORE Telematics

Telehealth initiatives represent the next horizon in improving patient care and reducing the cost of healthcare. KORE Telematics is helping organizations understand the critical role that reliable and ubiquitous wireless communications

plays in taking “quality of life” benefits of telehealth to the next level.

Basic telemonitoring technology has appeared recently, but many solutions rely on a wired phone to operate. Nearly one in six homes discontinued their landline, presenting a barrier to the growth in telemonitoring. And, home monitoring patients are often restricted by device inflexibility, even if their condition may not warrant it. Now, with wireless data services, we are able to monitor health data right in the home with no need for special connectivity to be installed. And, when patients leave the home, monitoring continues seamlessly.

These innovations are made possible through advancements in machine-to-machine (M2M) communications that enable cost-effective, remote health monitoring. Using the highly reliable, inexpensive, and fast wireless networks that power cellular phones, M2M is reinventing healthcare by capturing and transmitting remote data.

By integrating the networks of major leading wireless carriers into a single service platform, KORE is eliminating coverage or connectivity issues, enabling patients to report medical diagnostics to a doctor in real-time.

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