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Issue Preview

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EDITORIAL PREVIEW

Power supply units

Multi-stage EMC filters

More and more devices connected to the power grid have to function smoothly without interfering with each other. This is not that easy: after all, switching power supplies and highly synchronized integrated circuits are used in almost all electronic devices. This is where EMC filters come into play – in multi-stage design where necessary.

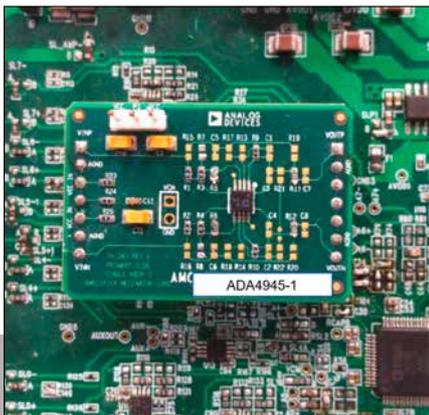
EMC filters with low leakage current

The 2-wire filters of the SIFI series have proven effective in numerous applications. The filters of the latest SIFI generation are now also suitable for medical technology in the version with reduced leakage current.

Sensors

High resolution ECG

There are details of the heart function, such as “late potentials”, which require ECG electronics with extremely high resolution. The spatial resolution required to display these details can be affected by noise and other performance-impeding factors on the ECG detector and detector system and even by the capture procedure itself. Here, low-noise drivers are required along with a high-resolution analog-to-digital converter (ADC).



Printed electronics

Printed electronics with copper technology offers new opportunities for medical technology applications ranging from tablet blisters to pressure-sensitive mattresses. Market-ready products are already available.

Embedded

Endoscopic OP robots with voice control

With its Soloassist II robotic arm for surgeons in hospitals, the company Aktormed makes it easier for surgeons to work with endoscopes. In the voice-controlled version, the underlying software for voice recognition and control of the robot arm makes rigorous demands of the hardware. While a simple microcontroller was sufficient for the version that surgeons controlled by joystick, the voice-controlled version uses a full-fledged embedded industrial computer.

Safety and protection

Today, designers of medical devices have to decide very early on in the design cycle what features and levels of security are required for their design. They then have to select the appropriate safety ICs that implement these functionalities.

E-mechanics

Membrane keyboards

Even in times of touchscreen input solutions, membrane keyboards still have a key role to play in many areas. The membrane keypad is still being used in the food, laboratory and medical sectors due to its closed surface, resistance to chemicals and impermeability to liquids and dust.



Connectors for the networked operating theater

Digital networking is continuing to increase in medical technology, too. Diagnostic, monitoring and operating systems are becoming increasingly small and intelligent and constantly exchange data. They not only have to withstand high loads without failure, they also have to function reliably. A reliable power and data connection is a must here. This requires plug connections that can withstand the specific requirements of medical technology – even under extreme conditions.

Software

AI for better diagnostics

AI has the potential to improve clinical outcomes and further increase the value of medical data; medical imaging stands to benefit immensely here. Deep learning models are helping make diagnostics increasingly precise, and they also help detect anomalies, assess diseases and predict the best possible treatment based on all available patient data. The article provides an overview of a rapidly growing market.

EDITORIAL PREVIEW



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