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Editorial Preview

elektronik industrie in April 2019:

- Sensors
- Analog/mixed-signal ICs
- Power electronics
- Embedded systems

Hüthig Electronic Media Group

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Sensors

Sensor analog front-end IC for Industry 4.0

The featured analog front-end is a component that allows simple deployment of any sensors in the Internet of Things – especially in the context of factory automation. After all, straightforward integration of the growing number of sensors is a key challenge facing Industry 4.0.

How do MEMS inertial sensors work?

Miniaturized sensors assembled as MEMS are capable of measuring acceleration in all three spatial dimensions. As a general rule, MEMS inertial sensors have proven extremely robust, reliable and fast. Modern products offer a high level of temperature stability and can detect even the very smallest changes in position and acceleration.

MEMS ultrasound sensors

MEMS ultrasound sensors offer the same performance and reliability as conventional ultrasound sensors but are up to 1,000 times smaller and have a level of power consumption that is up to 100 times smaller.

Linear calibration for magnetic position sensors

Older linear and rotary sensors are being replaced by modern magnet

sensors that do not exhibit any inaccuracies or premature failure due to soiling, dust and vibrations in cars. More calibration points means improvements in non-linearity.

High-precision color sensors for adaptive displays

Displays with fixed D65 white points have been shown to have a physiological impact on the human body. Automatic adaptation of white balance in the display to an optimized setting in changing ambient conditions has proved to be a physiological advantage.

Analog/ mixed-signal ICs

Flexibly from analog to digital

Common topologies for analog front-ends are usually designed for a specific application range and are therefore inflexible. New models demonstrate greater flexibility with integrated programmable amplifiers and MCU interfaces. A solution is presented which, in combination with an MCU, can even be used as a low-cost alternative to an oscilloscope for low-frequency signals.

IoT-based LED lighting and sensor system

The IoT has a key role to play in horticulture when it comes to monitoring and tending plants with a combination of sensors and special horticulture LEDs. A combination of board and module solutions is presented which significantly simplifies the development process.



Power electronics

Silent Switcher – low-emissions and simple

The Silent Switcher architecture allows pulse power supplies to be developed which meet different standards – such as CISPR32 and CISPR25 – more simply than before. The article describes how an efficient conversion can be realized at frequencies over 2 MHz, how the number of internal bypass capacitors can be reduced and the sensitivity of the circuit board layout largely eliminated.

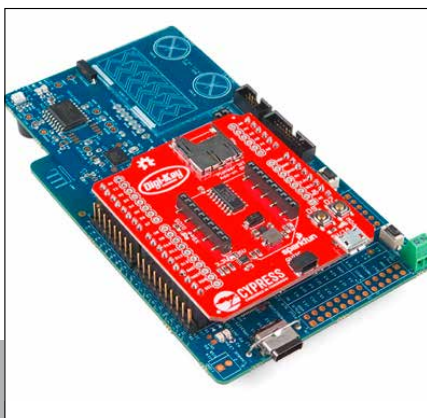
Embedded systems

Analysis of binary code

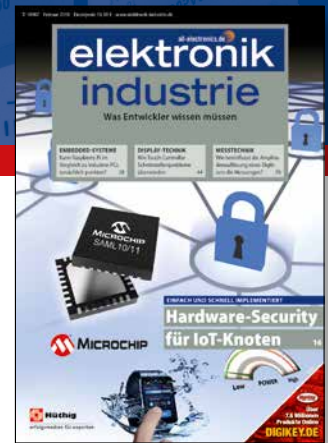
More and more software parts are being drawn from external sources. And these components are often only available in binary form, so it is impossible to carry out a critical code analysis on them. Quality has to be ensured in the case of external code, too. In this case, static code analysis can make a crucial contribution.

Power management for x86

x86 processors contain dedicated microcontrollers for power management. The article describes the operating principle, control of operation-related performance and how variances can be used to optimize the peak output of the processor.



EDITORIAL PREVIEW



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