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Editorial Preview

elektronik industrie in October 2019:

- Sensors
- Optoelectronics
- Programmable logic
- Safety & Security

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EDITORIAL PREVIEW

Sensors

Angle values with automatic error correction

The interpolation of analog sinusoidal signals has become an indispensable standard evaluation function, both for optical position sensors in motor feedback applications and for magnetic angle sensors. Modern ASICs meet the challenges involved by using blue light for clear imaging of optical scales and sine/digital converters with novel correction functions.

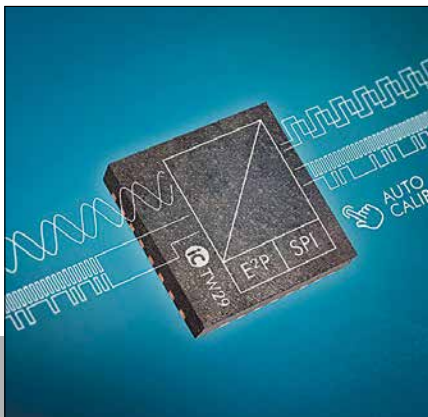
Silicon-based MEMS low-pressure measuring cells

The low-pressure measuring cell with silicon membrane below 20 mbar is still a challenge. New technologies such as DRIE, backside structuring and fusion bonding now make it possible to manufacture high-precision and inexpensive MEMS sensors in the low-pressure range up to 100 Pa.

Optoelectronics

Color control

The LT3964 downward-converting dual LED driver with serial I²C communication can be used in computer-controlled lighting systems that incorporate a large number of high-power LEDs and LED channels.



PWM dimming control of LED drivers

Advancements in the area of PWM dimming control of LED drivers have dramatically improved dimming ratios, reduced output voltage ripple and eliminated audible noise. The article describes LED drivers that use a patented PEB (Pre-Emptive Boost) control algorithm to reduce output voltage ripple in a PWM control for LED dimming.

Can LEDs become established in the horticulture sector?

LEDs offer far-reaching advantages as light sources in plant breeding, but their two biggest weaknesses – cost and light intensity – have made their use uneconomical. Nonetheless, rapid advances in the development and manufacture of LEDs have now closed the gap with traditional discharge-based lighting technologies.

Optical measurement techniques for better air

IR methods are used to measure gas concentrations whenever long-term stability is required. There are a variety of arrangements with specific advantages and disadvantages; however, the infrared detector is always a key factor when it comes to determining quality and price.

Programmable logic

Increased range

This article examines the development of programmable logic over recent decades – from the first masked programmed gate arrays through to the Copacobana, a cost-optimized parallel code breaker using 120 FPGAs.



FPGAs for security-critical applications

FPGA circuits have proven to be very reliable and versatile embedded components in safety-critical systems when the reliability of a system has top priority but the appropriate discrete components are no longer available.

Real Time Linux and RISC-V

There are processors that can run Linux but are not able to execute code deterministically. And there are processors that can execute code deterministically, but not Linux. But why is there no architecture that supports both? The RISC-V-based Polar Fire SoC architecture does have this capability.

Safety & Security

New technologies demand OT security

5G is of particular interest in production environments where low latency of less than 1 ms is often essential. A large number of weak points are now known when mobile devices are used in production. These offer a large target in the event of inadequate protection.

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