

# 06/19

## Editorial Preview

elektronik industrie in Juni 2019:

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## Optoelectronics

### Color measurement using color sensor ICs or spectrometers?

In recent years, the market for advanced and accurate color and spectral sensors has grown. This article describes the optical sensors and detectors in use today. It also explains how to assess the suitability of each type for specific applications and determine the required characteristics and performance.

### Pluggable installation

Electronic consumers – such as lights or drives – have to be supplied with energy, while renewable energies and intelligent energy management generate additional demand. What is required are installation systems that meet the rigorous requirements in terms of size, approvals and usability for IP67 installations.

## Sensors

### MEMS sensors for intelligent infrastructures

There is currently also a growing demand for MEMS sensors beyond consumer application. Development focuses on solutions characterized by a high-performance level that work reliably even under extreme environmental conditions.



### Higher accuracy and resolution for pressure sensors

Pressure sensors are used in a wide variety of IoT applications. However, developers are constantly faced with the challenge of improving the accuracy, precision, resolution, noise immunity and temperature stability of their components. At the same time, costs and time to market have to be reduced. The anatomy of integrated pressure sensors plays an important role here.

## Active components

### Verifying RISC-V cores

The evolution of RISC-V processor architecture is still in its infancy, but a free and open command structure could turn out to be a game changer in the semiconductor industry. RISC-V instruction set architecture (ISA) was developed with a high degree of configurability in terms of optional extensions. For the RISC-V ecosystem to grow, core vendors need an independent verification solution, not only to ensure mutual compatibility and find bugs, but also to identify security vulnerabilities. For this reason, formal design verification is best carried out using third-party tools. This article presents such a verification solution in detail.

### SSD on a chip

Make or buy? There are many factors impacting on this decision when using flash memories in the system. If the performance triad – access speed, data integrity and long-term behavior – is to be right, the choice will fall to a disc on a chip. This article explains why this is the best approach in the long term.



## Artificial Intelligence

### Relocation of AI to the edge of the network

Many deep learning applications are hosted in the cloud on powerful servers. Implementing machine learning often requires in-depth knowledge and experience. This article presents a software solution that enables developers to develop AI solutions for IoT systems that include essential edge processing without the need for expensive expert advice or self-training.

## Special

### Companies in NRW and North Germany

For the first time, the trade journal elektronik industrie is dedicating a special issue to the greater North Rhine-Westphalia and north Germany area including Lower Saxony and Schleswig-Holstein as well as Hamburg and Bremen. We will be running editorial articles on current events, changes and new products, techniques and technologies in an economic area with a population of around 32 million, i.e. almost 40 percent of the total population in Germany.

# EDITORIAL PREVIEW



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