

# 05/19

## Editorial Preview

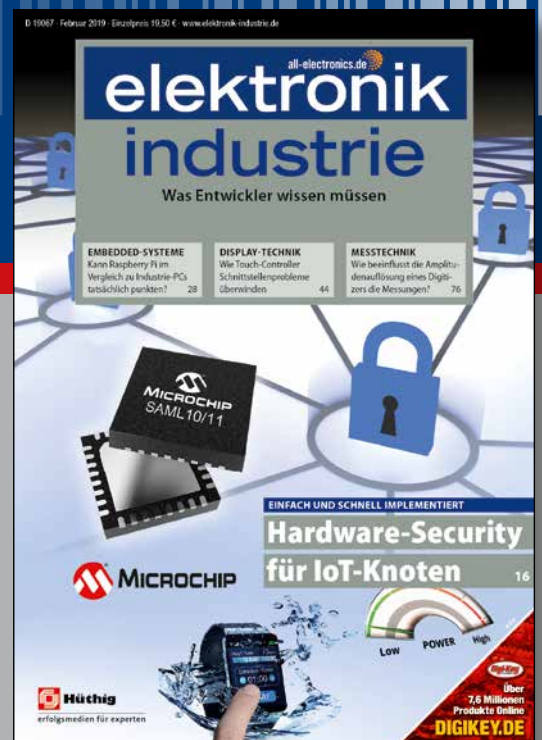
elektronik industrie in May 2019:

- Electromechanics
- Industry 4.0
- Measuring technology
- Safety and security

Hüthig Electronic Media Group

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## Electromechanics

### Liquid coolers: the quantity makes all the difference

Efficient, application-specific liquid cooling systems are another option available in the case of applications where passive or fan-assisted cooling solutions reach their limits. Different manufacturing processes can be used, depending on the application. For the production of large cooling element series, the die casting process is ideal.

### Everything but “hot air”

In addition to control cabinets, electronics modules also require an effective system of heat management, especially since nowadays the size of modules is decreasing while performance capacity is growing. This trend is creating new demands in terms of heat dissipation, since thermal problems can impact negatively on system reliability.

### Mechanical keys/switches

Touchscreens and membrane switches are suitable for optical and flat switch panels. In some applications, however, the main focus is on safety, user-friendliness, switching high voltages and amperages, a fixed configuration when switching on or robustness. Mechanical switches and keys are excellently suited to this type of situation, but it is important to make a careful selection.



## Industry 4.0

### Robust wireless communication for Industry 4.0

Maintaining reliable, robust communication is challenging in an increasingly “hostile” HF environment. Larger, denser networks mean there are more hubs transmitting in the immediate vicinity, so a high level of receiver performance is required. The article presents the challenges encountered in developing this type of wireless system.

### Industry 4.0 for the electrical lab

Nowadays, modern developer workstations enable integrated process support. Smart industry solutions can relieve developers of process-supporting tasks such as information procurement, documentation and data analysis. This article presents a solution that demonstrates the range of options available.

## Measuring technology

### Error search in IoT components with DDR3 memory

DDR3 memories are commonly used in circuits for IoT applications. This applies particularly to the energy-saving variants DDR3L (low voltage) and LPDDR3 (low power). Rohde & Schwarz is launching a new oscilloscope option for troubleshooting DDR3 interfaces.

### Signal generation with SIFI-II

The essence of SIFI-II technology is that signals are generated with a resolution of 16 bits. Various adjustable



filters increase the user’s options as to how the individual points of the signal converge. Without having to generate the individual points of the waveform again, the devices only have to adjust the bandwidth of the signal over the precise high-frequency limits.

### Stability measurement of digital clock signals

Clock signals are the heartbeat of embedded systems and are critical in terms of maintaining time references and synchronizing them. As the examples show, modern oscilloscopes offer functions that are able to skillfully simplify the often difficult characterizations and verifications of clock circuits.

## Safety and security

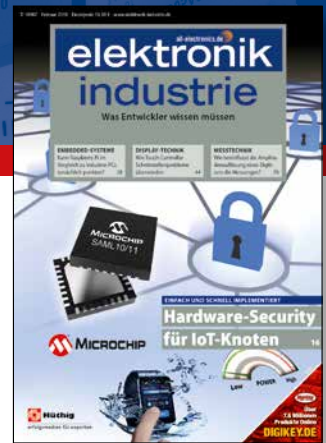
### Embedded systems need better security

Attacks on critical components, manipulation of communication, replication of systems by competitors: all this can be prevented using CodeMeter Embedded – without restricting established service processes and with the possibility of generating additional revenue through licensed models.

### Hardware-based security with Optiga TPM

The Optiga TPM SLM 9670 security controller provides scalable security for embedded systems, protecting machines, components, data and IP in smart factories.

# EDITORIAL PREVIEW



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