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Issue Preview

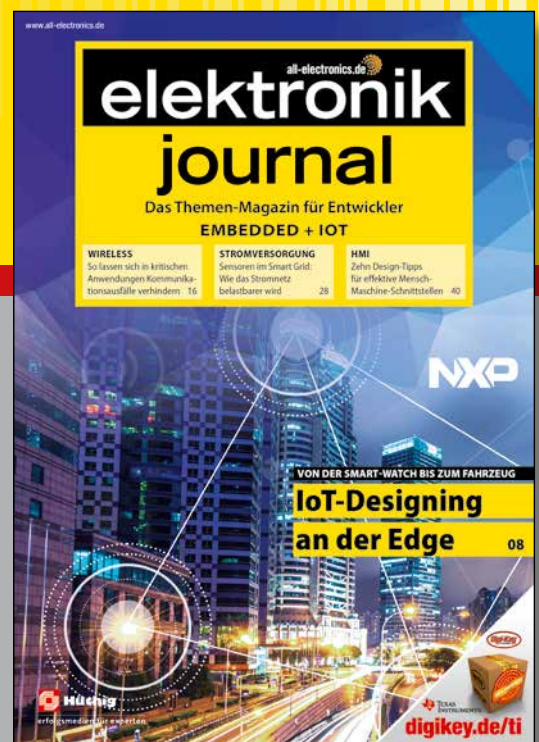
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- Active components
- Computers on modules
- Power supply
- E-mechanics
- Communication

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Hüthig GmbH
Im Weiher 10
D-69121 Heidelberg

Tel.: +49 (0) 6221 489-232
Fax: +49 (0) 6221 489-482
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EDITORIAL PREVIEW

Active components

Flash memory for industry 4.0

The trend towards Industry 4.0 is now pushing the performance of almost all major electronic components at work in industrial machinery and systems to its limits – and non-volatile memory modules are no exception. The memory is faced with the challenge of meeting demands and requirements in terms of cost, size, speed, power consumption and security. This paper explains how flash technology will evolve in the coming years to meet the requirements of industrial 4.0 applications.

Predictive maintenance with acceleration sensors

In most instances, maintenance accounts for a significant part of a company's production costs. This can be reduced thanks to predictive maintenance, whereby the condition of machines are monitored by IIoT (Industrial Internet of Things) to predict possible failures. Key components here are the acceleration sensors (accelerometers), which record the vibrations caused by faults. With the help of other components, developers can develop a predictive maintenance system based on such sensors.

Computers on modules

Edge Computing Platform

Presenting the Smart Manager 4.0, STV Electronic has now launched a



multifunctional and switch cabinet-compatible DIN rail PC based on the Raspberry Pi 3 B+. This mini PC will even fit into flush-mounted compact distribution boxes and is therefore ideal for building automation.

Power supply

Find power supplies for IoT

Power supplies for IoT applications must meet a wide range of requirements. They must be efficient and miniaturized, while also featuring low standby power consumption. Furthermore, developers have to consider durability and compliance with standards and guidelines and must take these factors into account early on in their design and component selection.

Energy Harvesting in Smart Buildings

Future agile buildings will require large volumes of sensor data to continuously analyze and optimize usage and operation. The generation, collection and provision of such data calls for flexible network infrastructures that can continuously adapt to new utilization scenarios. Wireless energy harvesting solutions are particularly suitable for such applications.

E-mechanics

OM5 multimode fibers

The digital transformation is resulting in far reaching changes in the IT world. High-performance cabling plays a key role in ensuring that the network infrastructure can ensure smooth data throughput. With OM5 fibers, a new cable generation is now entering the market that was developed explicitly for the requirements of data-intensive applications.



Communication

Smart City projects implemented with LoRaWAN

The number of smart applications in cities is advancing at a dynamic pace. This is accompanied by an increased demand for communication technologies – as simple, efficient and cost-effective as possible. Although this is hardly possible, today's LoRaWAN technology is now taking its first steps in this direction and is implementing the world's first sustainable smart city and IoT projects based on the low-power network protocol.

Three major wireless trends in 2020

Whether at home or at work, or the industrial and transportation sectors: the topic of connectivity is at home everywhere today. The Internet of Things has changed the personal lives of many people, while transforming entire industries. In 2020, three major wireless trends are taking center stage: geolocation, Wi-Fi 6 and LPWAN. This article describes the fundamentals of these three technologies and how they will be impacting the markets.

EDITORIAL PREVIEW



Advertising formats

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Contact Persons

Advertising manager:
Frank Henning
Tel. +49 6221 489-363
frank.henning@huethig.de

Publishers

Hüthig GmbH
Im Weiher 10
D-69121 Heidelberg
Tel. +49 6221 489-232
Fax +49 6221 489-482
www.all-electronics.de

Sales Force

Austria, Great Britain, Ireland, USA, Canada
Marion Taylor-Hauser
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Fax +49 921 32875
taylor.m@t-online.de

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