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Issue Preview

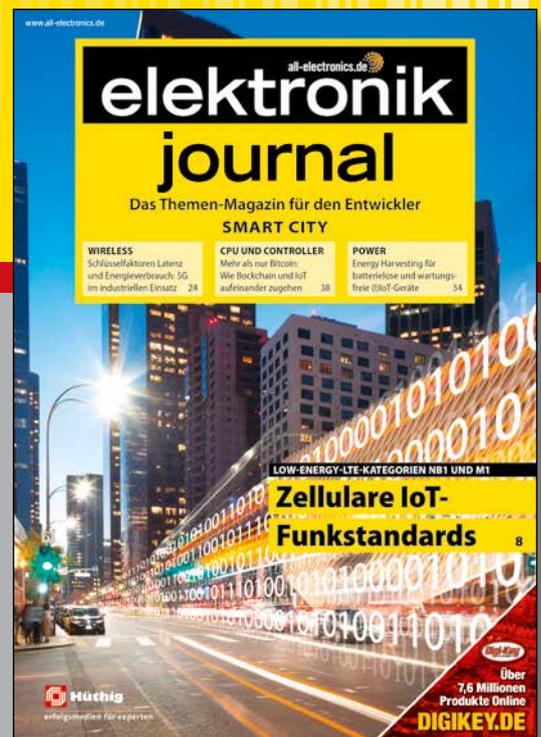
elektronik journal special issue “Smart City” in June:

- Sensors
- MCUs + Embedded
- Wireless + Security
- Electromechanics
- Low-power design

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EDITORIAL PREVIEW

Sensors

Parking space management

Many cities are on the brink of traffic collapse. But it is not just people and the environment that suffer from flowing traffic. The search for a parking space is also increasingly becoming a critical factor. The situation can be defused with a sensor-based intelligent parking guidance system.

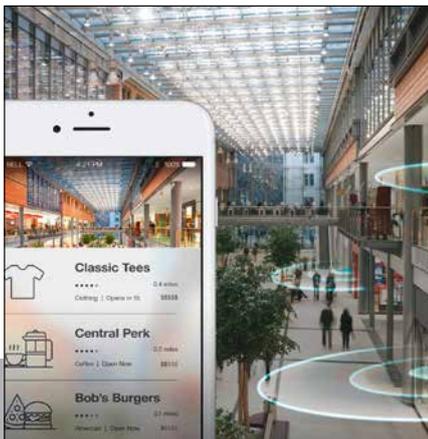
Sensors for gas detection

Solid-state electrolysis sensors enable emission measurements to be carried out in urban environments, permitting changes to be detected in gas concentrations of less than 1 ppm. The article presents the sensors' potential based on a practical example for nitrogen oxide monitoring with multi-point measurements.

MCUs + Embedded

Component for energy harvesting

Thin-buried oxide technology is a new type of sensor to appear on the market that has such low power consumption it can be operated by energy harvesting alone. Environmental factors such as temperature and vibration are sufficient to use the components without batteries.



Audio transmission via USB-C

USB-C integrates several functions into one interface. This is increasing demand for solutions that can accommodate the previously predominant form of external audio interface: the 3.5 mm jack. The USB-C interface is revolutionizing not just consumer electronics, but also industrial audio applications.

Wireless + Security

Technology for the 5G world

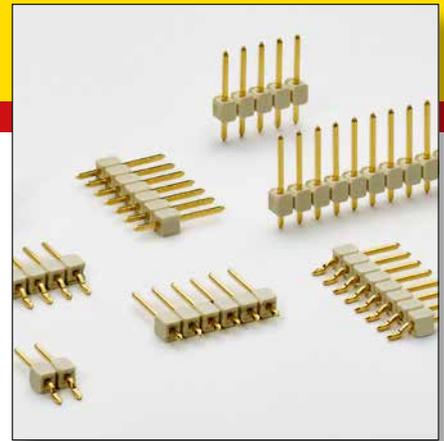
While 4G was still about providing consumers with network capacity and the "internet in their pocket", 5G will tap into much more potential. The 5G world aims to connect "things" with "services", including eMBB, mMTC and low-latency communication for critical applications. This article explains in detail how the introduction of 5G will take place and which economic and practical aspects are to be expected.

Proficloud services

The Proficloud system makes cross-location communication and control of a range of applications simple and secure. It consists of a coupler and the controller as well as the Proficloud license and services. The technology offers the possibility of integrating self-developed applications or services from the internet such as weather data.

Securing edge nodes

The issue of security has to be considered from the outset when designing systems for IoT devices. This also includes appropriate risk management. The article provides an overview of the possibilities of securing edge nodes in IoT and IIoT by means of access control and secure boot using the example of the Blackfin DSP family.



Electromechanics

White LED connectors without shadow effect

In LED applications in buildings and street lighting, special attention has to be paid to the design of the connector housing. White plastics avoid creating disruptive shadows. This article describes special design features and requirements for the materials.

Low-power design

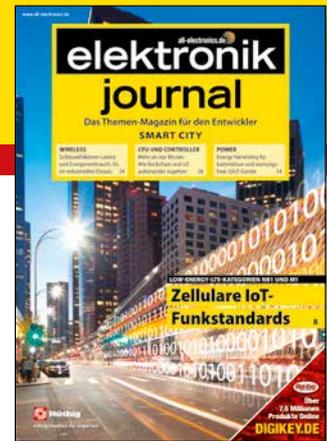
IoT: from the building to the city

With the help of maintenance-free, flexibly placeable sensors whose power supply is taken care of by means of energy harvesting, a virtual image of a building is created from which facility management can develop automated service processes. At the same time, cloud-based IoT systems create the conditions for networking in the Smart City.

BLE and sub-GHz integration

Sub-GHz frequencies serve a little-used niche for long distance connections with low or medium data throughput. BLE offers the opportunity to improve the functionality of these products by providing local access to the devices. This is made possible by a multi-protocol SoC.

EDITORIAL PREVIEW



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