

01/19

Issue Preview

elektronik journal special issue “Embedded + Wireless”
in February:

- Wireless + Networks
- Sensors
- MCUs + CPUs
- Power Supply
- Boards + Displays

Hüthig Elektronik Medien Gruppe

Advertising deadline:
January 29, 2019

Publication date:
February 21, 2019



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EDITORIAL PREVIEW

Wireless/Networks

Mobile communications for the IoT

The LTE categories NB1 and M1 are becoming increasingly popular. The number of devices using the cellular low-energy transmission standards is increasing by more than 100 million per year. The article describes the two mobile communications categories in detail, showing which standard is suitable for which areas of application and presenting different manufacturers' transmission modules as well as an embedded SIM solution.

Time-sensitive networks

There is no question that TSN will be a future Ethernet standard. What is not yet known is when the complete TSN package will be finished and recognized accordingly in the industry. Although end devices can already benefit from TSN networks, many companies are still hesitating when it comes to implementation. The article describes the benefits of TSN, as well as providing insights into the state of technology and standardization.

Sensors

Sensor design

The advancement of sensor technology is going ahead fast since new areas

of application are increasingly hugely. Intelligent building technology and the use of drones continues to expand. Fitness trackers, smartphones and other applications are being fitted with more and more new functions which generally require new sensors. This is why sensor manufacturers consistently continue to develop new solutions so as to make life easier for system designers.

MCUs + CPUs

Configurable MCUs

Current MCU families offer intelligent ways of re-arranging the pins for each periphery. This applies not just to a single alternative pin function but also to the complete re-assignment of pins for analog and digital functions. The article describes the procedure based on the creation of a 16-bit PWM function without additional external components.

Blockchain and the IoT

The IoT enables a framework in which the blockchain can be of use. Even though the combination of these two elements is not ready for use at the moment, it is important to address this convergence now. After providing an introduction to the subject of blockchain services in the IoT, the article looks at the strengths and weaknesses of the concept and explains why much higher-performance hardware is required in order to merge the blockchain with billions of IoT devices.

Power Supply

Energy harvesting

Energy generation from the environment is not only used in the area of energy supply but also in microtech-



nology systems. Thanks to energy harvesting, wireless sensors and switches can be supplied with power solely by means of motion, light or temperature differences. What are the technologies behind this? What is the role of maintenance-free sensors in IoT applications, how can these be implemented and what will this really mean in terms of IoT in buildings?

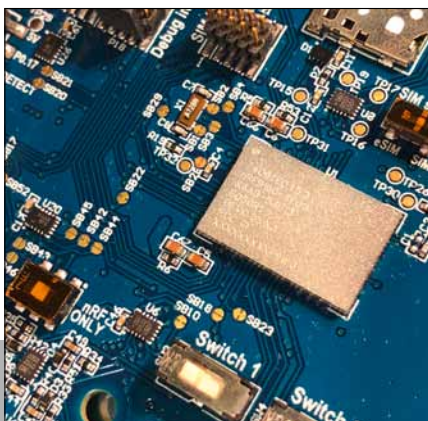
Boards + Displays

Embedded-box PC

Kinexon Brain is an intelligent software for navigating driverless transport vehicles in harsh environments. Since it does not depend on ground markers, soiling does not pose a problem. elektronik journal also explains the hardware – an embedded-box PC for use in sophisticated environments with IoT gateway and sensors for communication with the sensor network.

3D touchscreens

PCAP technology is established for 2D touchscreens and has supplanted other technologies in virtually all areas. The principle of detecting changes in an electrical field is also used by 3D touchscreens in that an electrical field is projected to the front. The third dimension enables both novel applications and the upgrade of existing ones by means of gesture control.



EDITORIAL PREVIEW



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