11/20

Editorial Preview

elektronik industrie in November 2020:

- Industry 4.0
- Embedded Systems
- Electromechanics
- Industrial PC
- EMC

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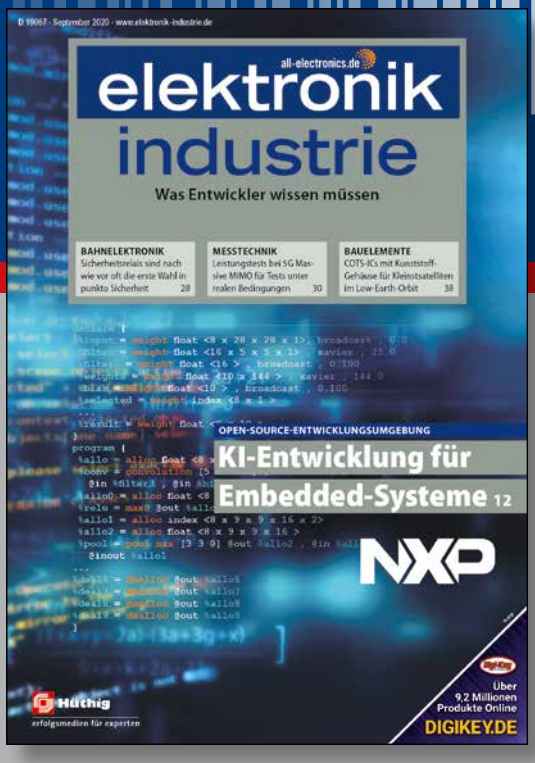

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Hüthig GmbH
Im Weiher 10
D-69121 Heidelberg

Tel.: +49 6221 489-232
Fax: +49 6221 489-482
www.all-electronics.de

EDITORIAL PREVIEW

Industry 4.0

Intelligence at the Edge

Edge devices are to be given more and more capabilities to make better decisions, adapt to their environment, and maintain optimal performance. As a result they are gaining a high degree of flexibility to meet different manufacturing requirements through software-based reconfiguration. All this is based on sensors and intelligent actuators that enable real-time system diagnostics and decision making.

Embedded Systems

Embedded RISC-V Toolchain

Since its release, the open source ISA RISC-V has evolved from an academic innovation to the first choice in the case of many embedded applications for mainstream products. The article explains the history of RISC-V, the benefits of the architecture, and shows how the toolchain for RISC-V-based commercial products can be used expediently – with a special focus on the corresponding software development kits.

Ten facts about memory for embedded IoT systems

As the hardware for the industrial Internet of Things is constantly evolving, the amount and quality of the data generated is also on the rise. Within the IIoT ecosystem, electronics developers must therefore consider which storage and mass storage systems should be used in their hardware and which parameters are important – from reliability, costs and power consumption through to scalability and security.

Electromechanics

Standard cable assemblies

Although cable assemblies are essential in many compact electronic systems today for the transmission of power and data, their installation can be problematic. This is especially true in a highly reliable (Hi-Rel) environment, where the consequences of a connection failure are most acute – and this is due to the complex structure of the connectors.

Movable terminals for SMT assembly

Adaptability is also required for the assembly of printed circuit boards. Consequently, Surface-Mounted Technology (SMT) is likewise becoming increasingly popular for solutions in industrial applications. But above a certain size, connectors in particular are reaching their limits here. Movable terminal blocks represent one possible solution, where the terminal body is movably located in the housing.

Connectors for the food industry

Food producers have so far often been skeptical about the use of connectors in sensitive areas. With their outlines and profiles – as users fear – interfaces break through the smooth, easily washable surfaces. The answer: the special Han F+B connector, which will withstand intensive cleaning while at the same time offering new options for the design, assembly and maintenance of production equipment.

Industrial PC

Raspberry Pi in a DIN rail PC

In the age of digitalization and IIoT, closed systems are being replaced by open, freely programmable edge computing platforms and solutions based on the Raspberry Pi ecosystem are becoming increasingly attractive. The Smart Manager 4.0 is a multifunctional, top-hat rail PC suitable for control cabinets, which also fits into flush-mounted small distribution boxes and is consequently well suited for building automation.

EMC

Medically suitable EMV filters

Two-line filters have proven themselves in numerous applications. The new generation is now also suitable for medical technology in the version with reduced leakage current. Especially in this sector, suitable EMC filters are more important than ever. It is not only important to comply with EMC equipment limits, but also to ensure reliable operation of the equipment also under challenging conditions and to avoid mutual interference.

EDITORIAL PREVIEW

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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
Max-Böhm-Ring 3
D-95488 Eckersdorf
Tel. +49 921 31663
Fax +49 921 32875
taylor.m@t-online.de

Switzerland, Liechtenstein
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