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Issue Preview

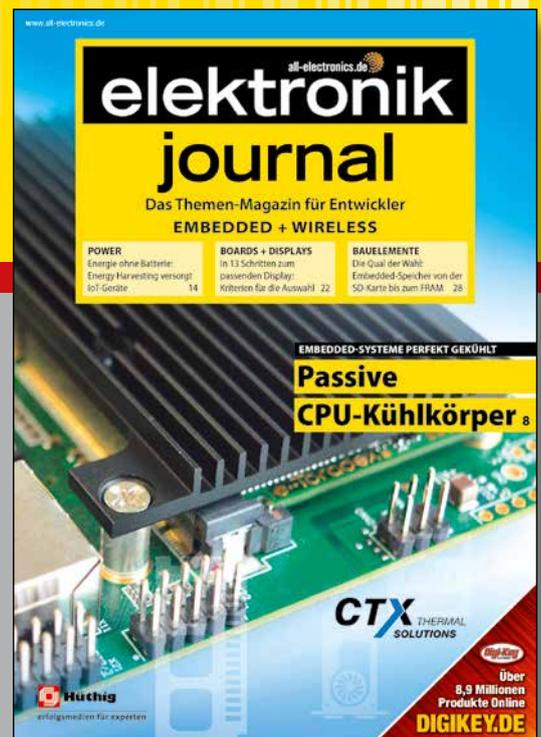
elektronik journal Embedded + Wireless in February

- Electromechanics
- Power supply
- Optoelectronics
- Signal conditioning
- Wireless

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EDITORIAL PREVIEW

Electromechanics

Cooling by heat transfer

Heat sinks with heat pipes are characterized by excellent heat conduction also over long distances. They are ideal for confined installation scenarios and can be combined with a multitude of manufacturing technologies. In addition, cooling performance can be increased many times over by simply increasing the number of heatpipes and/or combining them with a heat sink. Thanks to their properties, heatpipes are used, for example, to cool CPUs, graphics cards, LED modules and electronic components in vehicles.

Customized housings

More and more device manufacturers want their own individual customer interface for the electronics housing. The article describes how a manufacturer enables this by means of individual front foil design of the membrane keypad, with suitable cutouts for displays, connection technology and other interfaces – all from a single source.

Power supply

ESD protection for AR wearables

The more compact smart devices become, the more sensitive their internal structures to electrostatic discharge (ESD) will be. This also applies to eyeglasses that overlay images of the real world with digital information. Such Augmented Reality (AR) wearables must

be protected against ESD damage during the development process. This is because insufficiently protected wearables can result in high costs for repair, replacement, shipping and compensation. In addition, the manufacturer's reputation may suffer as a result. Therefore, circuit designers should consider five key recommendations early in the design process to improve the safety, performance and reliability of wearables.

Optoelectronics

Inactivation of coronavirus by UVC LEDs

The coronavirus still has a firm grip on the world, but there are various developments that limit its spread. For example, special LEDs can lead to virus inactivation. In other words, the virus can no longer reproduce. For example, the virus can be inactivated with special LEDs. UVC LEDs with a wavelength of 256 nm are particularly efficient.

Signal conditioning

IoT for greater sustainability

Technologies for the Internet of Things not only ensure ubiquitous networking and connectivity, but can also help to make cities, infrastructures and also the electronics industry more sustainable. In smart cities, the IoT ensures less congestion, more efficient processes for energy distribution and disposal, and helps ensure that less energy is wasted. Moreover, it can also support electronics systems in generating less waste or



enable the even more extensive use of recycling.

Wireless

Network technology 4.0

In order to bring greater efficiency to operations and maintenance and develop entirely new business models, industry is working on the digitalization of all business and manufacturing processes. The vast and multifaceted information required is leading to ever rising data volumes, while the comprehensive networking of all assets in the IIoT is presenting companies with enormous challenges. There are no patent solutions here. Only with a well thought-out combination of different technologies will it be possible to implement IIoT networks satisfactorily.

Cloud-based SIM solution

The reason why around 30 percent of all IoT projects already fail in the concept phase is that an IoT application consists of components that are located in different disciplines. The actual end device must be expanded to include a communication unit, based on mobile communications, which handles communication to the cloud. A great deal of expertise is required here, as it is necessary to integrate the system into a cellular network and to ensure the involvement of a wireless services provider that also offers the corresponding area-wide service with worldwide coverage. Octave is a concept that covers device management from design to through to maintenance and operation.



EDITORIAL PREVIEW



Advertising formats

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