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Editorial Preview

elektronik industrie in March 2019:

- Quartzes/oscillators
- Power supply units
- Active components
- HF and microwaves
- Special: Companies in Austria

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Quartzes/ oscillators

What is happening with pulse generators?

There are many different ways of generating pulses. We look at all the current products and technologies in the area of quartzes, oscillators (also MEMS) and PLLs.

Power supply units

Electronics is transforming the automobile

Electronics is transforming cars. Apart from the wheels and body, virtually everything else is being re-invented. This is giving rise to interesting applications for DC/DC converters. Although electronics essentially uses low voltage levels, the issue of insulation is important.

Front-end DC/DC converter in a 24 and 110 V on-board wiring system

The idea is to provide an output voltage of 400 V or 750 V, $\pm 5\%$, with 3 kW continuous output and temporarily 4.2 kW isolated via the input voltage 18 to 36 V/dynamic less than 6.8 V (or 110 V) with an efficiency of 94%. The article shows how this works.

Design tips for linear and pulsed power supplies

Switching power supplies are not only much smaller and lighter than their lin-

ear predecessors, they are also more efficient and suitable for wider input voltage ranges. The article offers design tips for linear and pulsed power supplies.

Replacing FMLCCs with polymer capacitors

Anyone looking for an alternative to MLCCs will find a suitable replacement in polymer electrolytic capacitors. The article provides information on the differences between the two technologies and how customers can obtain a suggestion for a replacement from the manufacturer.

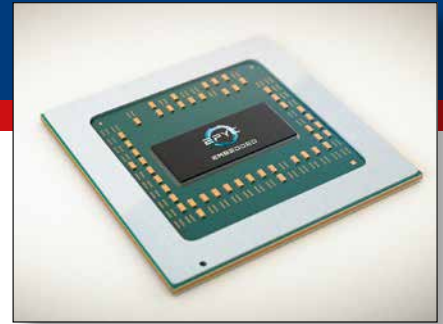
Active components

Microprocessors for visualization applications

Market demands in terms of visualization applications are becoming increasingly rigorous. Trends indicate a move away from microcontrollers towards high-performance microprocessors instead. However, processors for visualization application often lack program memory and require external storage media. The article describes which processor matches which storage medium and examines the selection criteria that have to be taken into account.

Power management for x86 processors

Power management in current processors aims to control the parameters of temperature, phase, voltage, current and power input, as well as maximizing useful power for workloads. For this reason, x86 processors have dedicated microcontrollers which are integrated for the purpose of power management. The article describes their function and how to control operation-related performance.



Decision-making aids in the microcontroller jungle

A glance at the market for embedded MCUs might easily suggest that the dominance of ARM as the core architecture is causing the market to stagnate – but in fact nothing could be further from the truth. Many 32-bit MCUs are indeed based on ARM, but a lot of manufacturers use their own core architectures too. The article provides an overview of several of the options available today, providing decision-making aids for making the right choice for various applications, e.g. in the areas of IoT and artificial intelligence.

HF and microwaves

Microwave technology sometimes has to be dry

What is a suitable air dehumidifier model for waveguides? We look at such aspects as the parameters of pressure, level, throughflow and dew point. Another topic is a compact integrated swivel joint and slip ring module for use in the stabilized antennas of Ka-band and satellite stations.

Special

Companies in Austria

In this issue of *elektronik industrie* we publish our major annual special on Austria. Here we look at current events, changes and new products from the Austrian electronics and electrical engineering industry.



EDITORIAL PREVIEW



Advertising formats

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