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Editorial Preview

elektronik industrie in February:

- Power supply
- Embedded + Displays
- Electromechanics
- Distribution

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Power supply

Synchronous rectifier controller for power supplies

Synchronous rectifier controllers (SR) are well-known solutions for improving power conversion efficiency in power supplies. They offer several advantages and have the potential to make life easier for power supply designers, especially when wide bandgap power semiconductors are opted for.

What makes a good switching power supply?

There are various criteria to consider when choosing a suitable power supply. These include the probability of failure, the role of electrolytic capacitors, and factors that impact on operational maintenance. The article explains in detail which criteria developers must pay attention to.

Selection of EMC filters for AC/DC power supplies

EMC filters are often on the job at the AC input of a terminal device. The range is large, which is why developers have to choose between different current and attenuation values, as well as versions with or without fuses and switches. Filter functionality as well as selection criteria are decisive in achieving the optimal effects in applications.



Embedded + Display

MPSoC in mixed safety-critical systems

Thanks to MPSoCs, or multiprocessor systems-on-chip, users today can deploy the functions of the MPSoC to separate a secure area from an insecure area and establish communication through a certified framework. This results in lower hardware and certification costs in mixed safety-critical systems.

The five most common RTOS development errors

When opting for a real-time operating system (RTOS), embedded developers can work at a higher level of abstraction. Using RTOS trace and visualization, the paper shows how developers can capture timing and synchronization aspects of their application that were previously hidden from traditional debuggers.

E-paper displays

Users of e-papers expect them to perform like paper. Therefore, suppliers need to view their e-paper displays as a solution that will work in all environmental conditions that paper might be exposed to. Consequently, e-papers should be regarded less as a display technology and more as a complex electrophysical application.

Electromechanics

Connector integrated in the cable gland

Plug KV is a combination of cable gland and plug. With this solution, the



positive properties of a cable gland are extended by the pluggability function. Depending on the requirements of the customer project, a plug connection is integrated into the cable gland.

Aluminum embedded enclosures

An enclosure as part of an embedded system protects the sensitive electronics, thereby ensuring long-term function. Addressing the requirements of an enclosure at an early stage prevents having to make complex and expensive adjustments later on. The individual properties of an enclosure can never be considered separately.

Distribution

Sourcengine is digitizing the supply chain for components

While online purchasing is growing rapidly in the B2B market, many electronics component buyers are still adhering to a traditional sourcing approach that focuses on their suppliers' sales teams. But this model is struggling to keep pace with the rapidly changing industry. Buyers are therefore turning to a digitized supply chain concept based on e-commerce and online tools oriented around consumer-facing websites.

EDITORIAL PREVIEW



Advertising formats

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