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Editorial Preview

elektronik industrie in July 2019:

- Power supplies
- Development systems
- Embedded systems
- Measurement technology

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Power supplies

SiC – the better alternative?

Due to the demands for lower costs and high reliability, power supply developers are focusing less on what is technically feasible and more on a blend of modern & reliable. In summary: constant evolution with only the occasional revolution. And switching power supply developers have been gifted two new technologies in the shape of silicon carbide (SiC) and gallium nitride (GaN).

Emergency power supply for 3.3 V

The power backup supply device LTC3643 enables affordable electrolytic capacitors to be used for energy storage. It charges a capacitor to a voltage of 40 V as long as the regular power supply is intact. If the power supply is interrupted, a load can be fed from this capacitor. The output voltage can be programmed to any value between 3 V and 17 V.

Development systems

Verifying RISC-V cores

The RISC-V Instruction Set Architecture (ISA) was developed with a large degree of configurability with respect to optional extensions. To ensure that the RISC-V ecosystem can grow,



core suppliers need an independent verification solution, not only to ensure mutual compatibility and to find bugs but also to identify security weaknesses. The formal review is thus best conducted with tools from third-party suppliers.

Implementation strategies for the 0G network

Sigfox has disclosed its radio specifications, thereby creating the essential foundation for a new de facto standard for the IoT connection of devices which every semiconductor manufacturer can implement. It can be expected that, as a result, numerous extremely affordable connectivity solutions on the basis of ASICs and state machines will appear on the market within the next few years. What technologies can OEMs already use today?

Embedded systems

COM Express Type 7 servers

Standardized Computer-on-Modules (COMs) have won the day in nearly every market. A further major market is opening up for scalable embedded modules specially designed for server requirements. To reflect the growing demands on network capabilities while maintaining high computing performance at the same time, the PICMG consortium has defined the Type 7 standard in the COM.0 Revision 3.0 of the COM Express specification.

Platform for AI

Today's robots can do much more than merely perform pre-programmed tasks. With machine learning, image and language recognition, navigation and other features, they are constantly adding new capabilities. They can adapt



independently to new circumstances. The AI platform Jetson stands for this type of high performance, energy-efficient AI computing without which the next generation of autonomous machines is inconceivable.

Measurement technology

DDR memory connectivity test and boundary scan

When developing a circuit board containing memory with an internal test function, it is urgently recommended that the test / scan approval and other control signals are directed to the I/O pins of a JTAG-enabled component or to a test header. In this way, the designer enables automated connectivity tests to be used which can save many hours of debugging time for prototypes and in mass production.

Advantage of signal routing software for switching matrices

Even with small switching systems, mistakes can occur when developing the program which can damage the hardware of the testing system or the unit under test. It is therefore always advisable to consider implementing switch routing software which offers the benefits of shorter program development times and the prevention of programming errors.

EDITORIAL PREVIEW



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