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Editorial Preview

elektronik industrie in January 2019:

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Power supply units

Solid state SMD battery for the IoT

Whether simple gadgets or complex industrial IoT appliances – they all require a reliable, space-saving and extremely safe power supply. Cera Charge is the world's first solid state SMD battery and meets all these requirements.

GPS buoys to provide protection from shark attacks

In 2015 the Australian government commissioned the Spanish company Marine Instruments to supply special solar buoys as part of a new shark management strategy. Marine Instruments developed a GPS buoy that is capable of tracking sharks along the Australian coast, thereby enabling attacks to be prevented. The buoys run on especially reliable and long-lasting batteries for safety-critical applications.

Distributors

PCN goes smart – distributor opts for digital standard

In the globalized digital world with its increasingly networked procurement, production and manufacturing processes, the information process relating to materials and components used is growing in complexity, too. Nowadays, the management of manufacturer



information poses a major challenge to numerous companies and customers – especially product alteration and discontinuation notifications.

NB IoT test set-up

Distributors often use their own internal design resources. This article describes the example of a solution which is a cell-based LPWAN technology using the existing LTE infrastructure. It enables the connection of large numbers of simple devices inside a single cell, whereby only data rates of between 600 bit/s and 250 kbit/s are supported by way of a compromise. The solution is mainly intended for the occasional transmission of small (sensor) data volumes

Active components

FRAM-based MCUs

Manufacturers of wireless sensors are increasingly opting for distributed rather than centralized data processing in smart building applications. This technical development is of crucial importance when it comes to reducing power consumption. The latest developments in memory technology – such as FRAM – give developers new ways of tackling this type of design challenge. When used in MCUs, FRAM offers genuine development freedom.

Broadband receiver for 5G, measuring technology, aerospace and defense

While wireless systems using overlay technology continue to dominate development, broadband-A/D converter technology has reached a point at which high-frequency sampling is now available in numerous applications previously dominated by frequency transmission circuits. As shown in this



article, there are new possibilities for direct-scan broadband systems.

Analog/mixed-signal ICs

Selection and application of current measurement amplifiers

Current measurement amplifiers and current shunt monitors are differential amplifier ICs which developed specially to carry out these important measurements. Current measurements are based on calculation of the voltage drop at shunt resistors wired in series that are used as current sensors. The selection and placement of these shunts and the associated current measurement amplifiers is crucial in order to achieve sound power distribution and efficiency. This article looks at the selection criteria for shunts and current measurement amplifiers.

The evolution of the instrument amplifier

The small sensor signals have to be precisely amplified in all environmental conditions. Instrument amplifiers were designed especially in order to perform this function: precise amplification of small signals so as to achieve a high degree of amplification accuracy even in interference-prone electrical environments.

EDITORIAL PREVIEW



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