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Editorial Preview

elektronik industrie in May 2020:

- Power supply units
- Electromechanics
- Safety and security
- Measuring technology

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Hüthig GmbH
Im Weiher 10
D-69121 Heidelberg

Tel.: +49 6221 489-232
Fax: +49 6221 489-482
www.all-electronics.de

EDITORIAL PREVIEW

Power supply units

LED power supply unit for LED lights

As a matter of principle, developers have to ask themselves one key question for every new light: which LED driver is to be used? Selecting the correct output voltage range for constant current drivers is particularly important.

Individualism as an opportunity

Off-the-shelf power supply units are less and less in demand; customers are looking for solutions that are specifically tailored to their needs. While this trend puts traditional sources of income at risk, it also opens up the opportunity to tap into new markets.

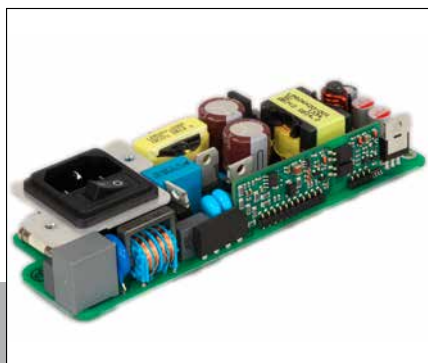
Electromechanics

Housing for corners

Devices used for large-scale monitoring of security areas or public spaces should be placed as high up on the ceiling as possible for precise use. The devices are often mounted on the wall, while the corners remain empty. A suitable solution has now been designed for this unused area – the Smart Control.

Save space in the control cabinet

When developing a compact control system, one of the main criteria was



always to use the installation space efficiently. The modular concept presented here was made possible by the use of very compact SMC connectors, for example, which not only connect the modules to each other at high data rates but also provide a reliable power supply to the modules.

Making the right choice

Various factors have to be taken into account when it comes to finding the right housing for an application with a top-hat rail mounting. Aluminum as housing material certainly covers a wide range of options. Mechanical processing by milling and punching enables an individual solution in both small and large series.

Safety and security

Licensing for cloud applications (in real time)

It may be necessary to ensure that the system software has not been changed since the last update or that the software is additionally hardened against re-engineering. An additional licensing system can be used to ensure that software can only be used by previously defined parties for stipulated periods of time. This type of procedure is a prerequisite for the protection of intellectual property.

Most common errors in the development of RTOS

What makes the development of real-time operating systems (RTOS) so difficult? There are many reasons – tasks run slowly or not at all, intermittent data loss, malfunction or even deadlock: tasks suddenly stop running even though there are no tasks in progress with higher priority. The article provides valuable tips.



Mutation test

A mutation test automatically checks the error detection capability of existing test cases according to the motto: test the test. In this way, the function improves the review of test methods and test quality as required by functional safety standards, thereby reducing the manual effort involved in testing embedded software.

Measuring technology

RF probing, part 2

Precise measurement of RF characteristics is a complex task even at 80 GHz. Waveguide measurements are currently mandatory at 145 GHz. The 50-ohm connection of the device to a measuring instrument is no longer sufficient to measure the required noise characteristics, linearity characteristics and efficiency of semiconductor amplifiers as key components; tuners are needed, and this has a significant impact on the design of the probe station.

Mixed analog/digital measurements with digitizer

Digitizers with a multi-purpose digital I/O add-on offer extended possibilities for measuring mixed signals as compared to conventional modular digitizers. There are products that can display up to sixteen additional digital signals simultaneously and synchronously with up to eight analog signals.

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Contact Persons

Advertising manager:
Frank Henning
Tel. +49 6221 489-363
frank.henning@huethig.de

Publishers

Hüthig GmbH
Im Weiher 10
D-69121 Heidelberg
Tel. +49 6221 489-232
Fax +49 6221 489-482
www.all-electronics.de

Sales Force

Austria, Great Britain, Ireland, USA, Canada
Marion Taylor-Hauser
Max-Böhm-Ring 3
D-95488 Eckersdorf
Tel. +49 921 31663
Fax +49 921 32875
taylor.m@t-online.de

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