

# 02/19

## Editorial Preview

elektronik industrie in February 2019:

- Embedded systems
- Display technology
- Electromechanics
- Measuring technology/EMC

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## Embedded systems    Display technology

### Hardware security for IoT

Safety breaches – ranging from malware injection and Distributed Denial-of-Service to battery drain attacks – put the entire potential of the IoT at risk. The article describes how IoT developers can address security weak points without impairing the power consumption of the device and how low-cost MCUs with hardware security functions can simplify implementation.

### Reducing the size of satellite communication subsystems

There are currently more than 20,000 satellites in orbit. The article describes how the combination of a 32-channel driver IC with a 32-channel multiplexer can tackle the challenges of satellite payload by reducing the size of the command and telemetry subsystems by as much as 50 percent.

### Power management for current embedded processors

Current x86 hardware architectures are designed for optimum processing power. Maximum performance is provided through the power management system for this purpose, while at the same time ensuring reliable operation. However, it is necessary to be familiar with the fundamental limits of silicon logic this purpose. The article describes power management for x86 processors in the output classes 6 W to 60 W.



### Touch controllers for 2D

A new generation of touch controllers will improve the design of industrial capacitive (PCAP). Much higher operating voltages will ensure higher tolerance in unfavorable conditions.

### 3D touchscreens

The principle of detecting changes in an electrical field is also used by 3D touchscreens in that an electrical field is projected to the front. The projected field enables events to be triggered without actually making contact with the touchscreen.

## Electromechanics

### Highly flexible housings

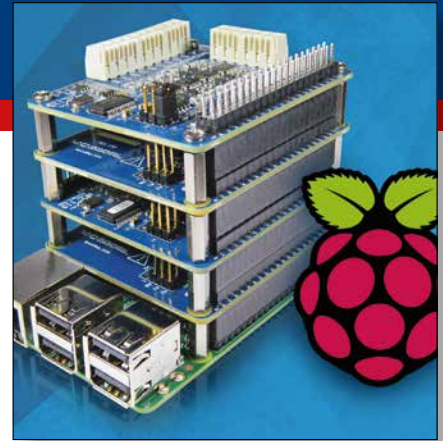
The rugged field housings of the ECS series are suitable for indoor and outdoor applications. In the protection class up to IP69 they are suitable for temperatures from -40 to +85 °C, providing the integrated electronics with reliable protection from mechanical impact as well as dust, water and UV radiation.

### Industrial infrastructures

The transition of the physical connection to a hybrid world of physical and digital connectivity is gradually taking shape. The focus here is increasingly on system solutions based on the plug-and-work principle. IIoT and electromechanical connectivity will continue to merge.

### EMC-oriented design

With an input voltage of 54 VDC and a maximum power consumption of 1500 W, Arri's LED spotlight Sky Panel S360-C



generates a light output of more than 120,000 lumen. High outputs at high frequency are bound to result in high interference levels, so the EMC-oriented design was a fundamental requirement in order to ensure stable functioning of the system.

### 6 steps towards the ideal filter

Using a new evaluation board, it is possible to calibrate various filter configurations without changes to the circuit board layout. With high L and C component values it is possible to sufficiently attenuate most interference.

## Measuring technology/EMC

### Not without validation

HAT (Hardware Attached on Top) measuring technology modules are now available for the Raspberry Pi. The article presents a low-cost measurement system with four HAT plug-on modules and 32 analog inputs.

### Measuring of digital clock stability using an oscilloscope

Modern oscilloscopes offer a wide range of measurement options which can be used to characterize and test jitter in clock circuits.

# EDITORIAL PREVIEW



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