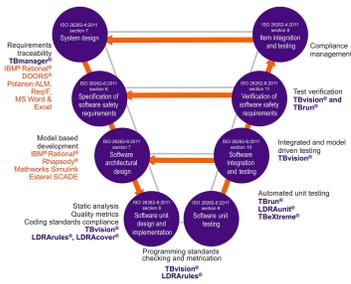


DECEMBER 2017



## [Mouser Electronics](#)

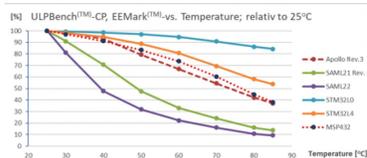


The software development lifecycle continues as long as connected cars are on the street

MARK PITCHFORD, LDRA

Automotive embedded applications have traditionally been isolated, static, fixed-function, device-specific implementations, and practices and processes have relied on that status. There's lots to learn for developers in the newly connected automotive sector ? domain separation, secure boot, defense-in-depth ? and they're all rocking the ordered worlds of many a development team.

[Read More +](#)



Energy consumption in modern microcontroller systems, part three: The impact of operating temperature on energy consumption

HORST DIEWALD AND UWE MENGELKAMP, PROJOULE GMBH

An important factor in the selection, market positioning, and success of a product is the energy consumption of the entire system. Is one benchmark enough to select an MCU, an MCU family, or an entire MCU manufacturer? Are publicly available technical documents enough?

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# White Paper: SMARC 2.0 - At the Heart of Next Generation IoT Embedded Solutions

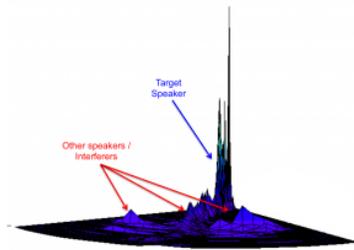
The SMARC - (Smart Mobility Architecture) standard has in a matter of a few years become a major driving force behind the enablement of innovative ultra-low-power embedded computing technology solutions. Market demand and the disruptive influence of the Internet of Things (IoT) have already... [\(Read More\)](#)

## IoT mesh networks have never been cheaper, or easier

SIMON CHUDOBA, IQRF ALLIANCE

Smart city applications typically rely on connectivity technologies foreign to the consumer world. Most engineers have by now heard of LoRa and Sigfox, which are technologies designed to collect data over a relatively large distances using direct communications between devices and a gateway in a star topology. However, mesh technologies similar to those used in the smart home can also play a role in Industrial IoT (IIoT) markets.

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## Voice rec is terrifying

BRANDON LEWIS

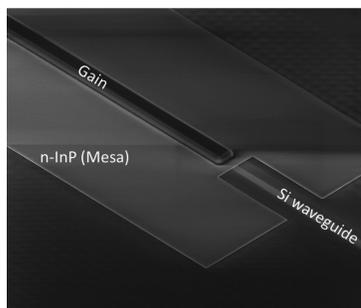
In a world obsessed with Internet privacy it's surprising how little we talk about always-listening devices like the Amazon Echo. After all, a company that wants to learn intimate details about your life in order to sell you more stuff has a microphone permanently fired up in your kitchen.

[Read More +](#)

## Need an embedded data acquisition card? Check out the Cardsharp with a Zynq Z7045 SoC

Our Cardsharp product eliminates the need for a host computer. It also contains a FMC connector that interfaces to a variety of data acquisition hardware.

[Watch our demo video now.](#)



## Leti integrates hybrid III-V silicon lasers on 200mm wafers using standard CMOS process

LETI

Leti has integrated hybrid III-V silicon lasers on 200 mm wafers using standard CMOS process flow. This shows the way to transitioning away from 100 mm wafers and a

process based on bulk III-V technology that requires contacts with noble metals and lift-off based patterning.

[Read More +](#)



## Thread Group expands test infrastructure to support influx of interoperable products

ECD STAFF

The increased infrastructure will help ensure interoperability between a growing number of Thread components and products.

[Read More +](#)



## Calculate cost for a custom IIoT IC (Hint: It's cheaper than you think)

ECD STAFF

S3 Semiconductors' free online bill of materials calculator provides an inside look into how creating a custom integrated circuit for your next Industrial Internet of Things application can be economically viable, even in low to medium volumes.

[Read More +](#)

## Microchip Brings the Next-Generation In-Circuit Debugging

### MPLAB? ICD 4 unleashes unparalleled speed & flexibility

The new MPLAB? ICD 4 introduces a faster processor and increased RAM to deliver up to twice the speed of ICD 3 for the in-circuit debugging of PIC? microcontrollers and dsPIC? digital signal controllers

ICD 4 also introduces a wider target voltage range and an optional 1 A of power via an external power supply. For maximum flexibility, ICD 4 features a selectable pull-up/pull-down option to the target interface and programmable adjustment of debugging speed for greater productivity.

Click [here](#) to find out more.

## FED4SAE project aims to accelerate European cyber-physical-system solutions to market

ECD STAFF

A pan-European consortium of 14 companies has launched the Federated CPS Digital Innovation Hubs for the Smart Anything Everywhere (FED4SAE) initiative, a three-year European Commission program to facilitate the acceleration of European cyber-physical-system (CPS) solutions to market.

[Read More +](#)

## Code analyzer automatically applies AUTOSAR Adaptive C++14 guidelines

ECD STAFF

The PRQA AUTOSAR Compliance Module is a commercially available static code analysis tool to automatically apply the AUTOSAR Adaptive Platform's new C++14 Coding Guidelines. The AUTOSAR Compliance Module is delivered as an extension to the QA-C++ 4.2 static code analyzer.

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## Power Panel: Gallium-Nitride vs. Silicon Carbide (GaN vs. SiC)

Sponsored by: EPCOS, Littelfuse, RECOM, Texas Instruments

Date: January 16, 2018 2:00 p.m. EST

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