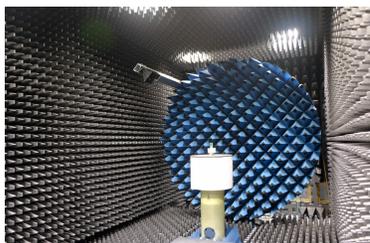


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## DESIGN ARTICLE

### A lesson in wireless engineering from the Raspberry Pi

CARL TURNER, LAIRD CONNECTIVITY SOLUTIONS

Customers today expect smart products to be portable, compact, aesthetically-pleasing ? and able to be connected anywhere and anytime. Putting a check mark next to that entire wish list is challenging for product engineers because of the inherent tension between a small, aesthetically-pleasing product and robust connectivity.

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### An open source home automation solution

SANJEEV SHARMA, MENTOR GRAPHICS, A SIEMENS

BUSINESS

To bridge the gap between consumer and expert, and to allow integration into any existing home environment without physical alteration to the building, a modular home automation solution with seamless integration potential is required.

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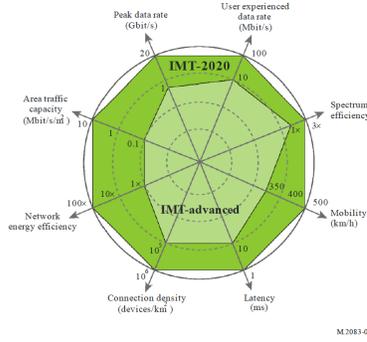
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### 5G networks find flexibility in FPGA-based modems

BRANDON LEWIS

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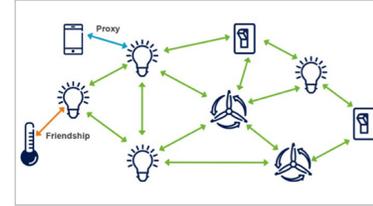
### DESIGN ARTICLE

## How Zigbee, Thread, and Bluetooth Mesh stack up in performance benchmarking

TOM PANNELL, SILICON LABS

Regardless of the underlying protocol, deployed networks for the IoT must be robust, and this robustness can be quantified by measuring throughput, latency, and reliability.

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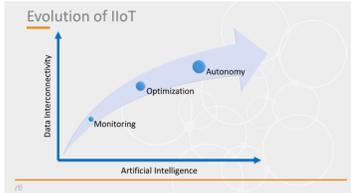
## GUEST BLOG

### A brief history of embedded software development

COLIN WALLS, MENTOR GRAPHICS, A SIEMENS COMPANY

We're approaching the 50th anniversary of the invention of the microprocessor, quite a milestone for a technology that touches everyone's lives every day. We've come a long way in those 50 years.

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### How fog computing is driving Industrial IoT systems evolution

BRETT MURPHY, RTI

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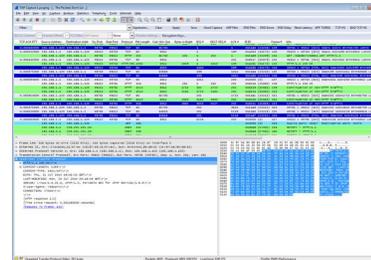
## DESIGN ARTICLE

### The need for deep packet inspection in automotive networks

CHRISTOPHER MASH, MARVELL

In the past five years, the move to more sophisticated functions within the car, driven by advanced driver assistance systems (ADAS), has stipulated higher levels of connectivity.

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### T?V certification is shifting the automotive landscape

MAJEED AHMAD, CONTRIBUTING EDITOR

The automotive electronics is shifting its emphasis from quality to safety. The increasing importance of the ISO 26262 standard is a testament to this sea change.

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GUEST BLOG

## Raspberry Pi helps create a cottage industry of DIY game systems

JEREMY COOK, ENGINEERING CONSULTANT

If you grew up in the 80s or 90s, you were likely amazed when devices like the Nintendo Game Boy and Sega Game Gear came onto the scene, enabling you to play versions of Mario or Sonic in a nicely portable package? sometimes even in color! The idea that you could simply make one yourself didn't even seem in the realm of possibilities.

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