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Secure device design for IoT



Andrew Howard, Kudelski Security

In early January, D-link, a manufacturer of home wireless routers and webcams, was sued by the Federal Trade Commission (FTC) for not taking the necessary steps to secure their products, leaving them open to attacks such as the recent botnet events that compromised hundreds of thousands of home and enterprise devices. This suit will hopefully serve as a wakeup call to Internet of Things (IoT) device manufacturers about the ramifications of building and deploying poorly secured systems.

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January 26, 2pm ET

What to look for in a DAC

Tiffany Rowe, Seek Visibility

These days, most of us get our music digitally. Whether that music comes from a streaming service like Spotify or Pandora, a CD played on a player, or from a downloaded file from a source like iTunes, it has one major feature: in order to be audible, the digital file must be transmitted through a digital to analog converter (DAC). Digital signals are little more than a series of 1s and 0s, and in the case of recorded music, are arranged in a particular... [Continued...](#)





Fanless or forced-air? Latest Intel and ARM chipsets give embedded system designers more choices

Kenny Kuo, DFI Tech

Fanless systems are attractive to embedded system designers for many applications. They have fewer moving parts, are more reliable, and work in applications without proper airflow conditions. Today's low-power ARM and Atom processors allow ever-higher levels of performance in fanless systems. Less known are several lower power Intel Core i processors that achieve the same goal.

The higher-end Core i processors are also expanding the capabilities of forced air-cooled systems. In this articles, we will discuss the different types of processors and their effects... [Continued...](#)



Five Minutes With...Gregor Bleimann, President, Connected Development



Rich Nass, Embedded Computing Brand Director

In this week's Five Minutes with...segment, I put Gregor Bleimann, President of Connected Development on the hot seat. The reason being was that he's brand new to the company, about three weeks in, so I wasn't sure how he'd handles the questions. Connected Development , a spin-out from Multi-Tech Systems , is focusing on the Industrial IoT, one of the areas that has a huge potential. At least that's my opinion, one that Gregor seemed to agree with. [Continued...](#)



Over-the-air firmware upgrades for Internet of Things devices



Richa Dham Cypress Semiconductor *and* Sachin Gupta, Cypress Semiconductor



The scale of the Internet of Things (IoT) brings many challenges to deployment. In our homes alone, we've seen a dramatic increase in the number of connected devices from just a router and a couple of personal computers to multiple smart devices that remotely lock doors, activate window blinds, control lighting, manage temperature and humidity, and more. In order for this multitude of devices to remain relevant and secure, over-the-air (OTA) firmware upgrades must become an integral part of IoT systems. Imagine a huge... [Continued...](#)

Embedded University: IoT Device Management - Class 3 of "Device Management 101"

In our final class, we will look at the "Things" of the IoT - our nodes and devices - and how we can effectively commission, monitor, and detect problems in them throughout their lifecycle. We will look at methods for adding device management capabilities in our devices from the design stage as well as ways to add these capabilities in the legacy devices we looked at in the previous class. Sponsored by: Wind River

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Mechatronic test benches – Growing trend for validating control systems



Jace Allen, dSPACE Inc.

To validate complex vehicle control systems the mechanical components must be put to the test, which can be a time-consuming and expensive process. As automotive manufacturers look for more efficient solutions, there is a growing trend towards utilizing mechatronic test benches. Hardware-in-the-loop (HIL) technology has become the main backbone of engineering processes used to develop and test mechatronics.



Semiconductor foundations for connected device security



Brandon Lewis, Technology Editor

Foundational security for Internet of Things (IoT) devices starts in silicon, a realization that can be seen today as semiconductor companies ramp up production of integrated circuits (ICs) that either incorporate security functions or act as complete standalone cryptographic devices themselves.



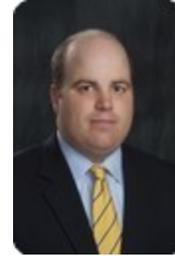
IoT endpoint protection and good cyber hygiene



Brandon Lewis, Technology Editor

Andrew Howard, Chief Technology Officer of Kudelski Security, a managed security services and cyber security consulting firm that recently launched an IoT

Security Center of Excellence, provides tips and advice for good cyber hygiene in the age of networked devices.



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