

FEATURE

Extending Trust to Embedded Mobile Systems

TERRY OTSUBO, AMERICAN MEGATRENDS

With more than 95% market share in smart phone processors, Arm, now a part of Japan's SoftBank Group, has provided compelling reasons for mobile system designers to choose its architecture.

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FEATURE

Navigating the Component Shortage

GRAHAM SCOTT, JABIL

The only abundance seen lately in the electronic components market is the quantity of calendar pages marking how long the supply shortage has lasted.

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FEATURE

The Return to Analog

GENE FRANTZ, OCTAVO SYSTEMS

The concept of processing interesting signals is not new. It has been around as long as we, as humans, have recognized we could manipulate the world around us to make life easier.

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FEATURE

Device: Test Thyself

COLIN WALLS, MENTOR GRAPHICS, EMBEDDED DIVISION

Stuff breaks. Things go wrong. The less polite epithet is: **** happens. Whatever word you use, it's a fact that we live in an imperfect world. In an embedded system, there are many

opportunities for failure.

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FEATURE

Mentor's Emulation Vision ? New Solutions for New Challenges

ERIC SELOSSE, MENTOR, A SIEMENS BUSINESS

The exciting thing about participating in an industry over the decades is watching change happen right before your eyes. Back when I was building and marketing computer systems, it was a different world.

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FEATURE

IoT Helps Beekeepers Raise More Bees

LANCE LOOPER, SILICON LABORATORIES

Bee populations have been on the decline for several decades for many reasons. As pollinators of numerous crops, honeybees average more than 33 percent population loss per year.

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FEATURE

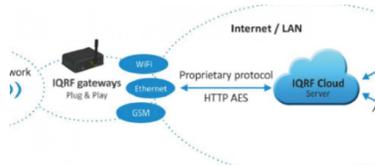
Momentum is building for LoRaWAN

JOHN KOON, CONTRIBUTING EDITOR

The open LoRaWAN standard for IoT low-power wide area networks (LPWANs) enables smart sensors, devices, and other objects to connect wirelessly via gateways that relay messages to a central network server.



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FEATURE

IQRF - wireless technology for IoT and how to use it

LEI ZHANG, IEXEC BLOCKCHAIN TECH

IQRF technology is used for wireless data transfer. The transmission is capable of overcoming large distances (up to 500 m outdoors, tens of meters indoors).

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PODCAST

Five minutes with ... John Wall, QNX

RICH NASS

When it comes to autonomous vehicles, there are followers and there are leaders. QNX, a subsidiary of Blackberry, believes it falls into the latter class. To understand why, but more importantly to get the lay of the autonomous vehicle landscape, I spoke to QNX's Senior Vice President John Wall in this week's Five Minutes with?discussion.

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NEWS

Wind River Develops Safety Platform for Autonomous Vehicles with Hyundai

LAURA DOLAN, TECHNOLOGY EDITOR

Wind River announced collaboration plans with Hyundai Autron to develop a software framework for safe, automated and autonomous driving.

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NEWS

1080p/60 embedded vision camera integrates Sony 13 MP EXMOR sensor and F2.2 lens

LAURA DOLAN, TECHNOLOGY EDITOR

Entner Electronics has released the UC-200 embedded vision camera based on the 30 fps Sony 13 megapixel EXMOR sensor and F2.2 lens.

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SPONSORED WHITE PAPER

Automotive Functional Safety: No Hiding Place

BLACKBERRY | QNX

A modern vehicle has over 100 million lines of code, more software than is found in a Space Shuttle or the Large Hadron Collider. To make driving decisions, autonomous vehicles use sophisticated software running on the most powerful CPUs ever seen in the automotive industry. Since these processors are pushing the boundaries of hardware performance, reliability has become a concern.

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Cryptography-enabled microcontroller with DICE architecture simplifies



development of secure connected nodes

MICROCHIP TECHNOLOGY, INC.

With the accelerated growth of the Internet of Things (IoT) enabling the deployment of Internet connectivity into virtually every industrial segment, security threats are escalating in quantity and scale. The impact of these threats on attacked organizations or companies can be huge.

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SPONSORED ARTICLE

From enabled to proactive: the evolution of home automation

AVNET

Just how smart can a smart home get? Tomorrow's home is a true brainiac, making decisions for you before you even think to tell it to. A hundred years ago, a smart home was one with the first electric home machinery.

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