FEATURE
5G Infrastructure Opens New Integration Frontiers Inside RF Chips
MAJEED AHMAD

The advent of massive multiple-input multiple-output (mMIMO) is creating new RF challenges for base station hardware while the new radio technology facilitates the path toward 5G wireless. So, the 5G infrastructure, already facing an increasing RF complexity, now demands another round of innovation on the part of semiconductor firms to improve network efficiency with more adaptable solutions.

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BLOG
Rugged Tablet Computers for Healthcare Applications
SAM LIAO, WINMATE INC.

Technology has long played an imperative role in streamlining hospital operations and improving patient care. In hospital environments, performance, reliability and accuracy are imperative. From medical imaging to patient data, the hospital environment is a complex ecosystem that requires advanced technology to keep it running smoothly.

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BLOG
Cypress Semiconductor CYW20819 and CYBT-213043-MESH Bluetooth Mesh Networking Evaluation Kits
VIN D?AGOSTINO

Wireless networking drives our modern world, whether through cellular, Wi-Fi, or emerging standards like LoRaWAN and Sigfox. Another technology that?s become ubiquitous over its 20 years of existence is Bluetooth.

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BLOG
Keys to Developing Safety-Critical Software
JOHN FOGARTY, BASE2 SOLUTIONS

In the 1980s, software design flaws in the Therac-25 radiation therapy system resulted in massive overdoses to at least six people and ultimately caused three deaths. Simple data entry mistakes led to patients being exposed to 10,000 percent more radiation than what was prescribed.

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BLOG
Achronix Speedster7t FPGAs Suit AI/ML Apps
RICH NASS, EXECUTIVE VICE PRESIDENT

The spotlight on FPGAs seems to come and go. Xilinx made quite a splash a few years ago with its ARM-based Zynq launch and frankly, has remained in that spotlight. Quicklogic recently made an announcement with SiFiVe regarding FPGA templates using RISC-V.

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PODCAST
Five Minutes With? Zvonimir Bandic, Chairman, Chips Alliance
EMBEDDED COMPUTING DESIGN

Zvonimir Bandic is the Senior Director of Hardware Platforms for Western Digital; he?s a Member of the
Board of Directors for the RISC-V Foundation, and he’s the Chairman of the Chips Alliance.

To Cloud or Not to Cloud: The Challenge of Deciding Where to Process IoT Data

NICHOLAS CRAVOTTA

The majority of IoT nodes capture data. Before decisions can be made using this data, however, it needs to be processed. Today, embedded developers have the option to implement data processing everywhere from within the node itself to all the way out to the cloud.

Increase Battery Life of Consumer Products Using Architecture
Simulation
AKASH K AND DEEPAK SHANKAR, MIRABILIS DESIGN, INC.

For a consumer application, the response time, display resolution and battery life are the top features. The lifecycle of the battery is directly proportional to its capacity, power spikes and usage profile. The battery size cannot be increased indiscriminately because of cost, space and reliability considerations.

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NEWS
Lattice Releases New MachXO3D FPGA
LAURA DOLAN, TECHNOLOGY EDITOR

Lattice Semiconductor Corporation introduced its MachXO3D FPGA that will help OEMs integrate comprehensive and flexible hardware-based security for all system components.

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NEWS
Marvell Acquires Avera Semi
LAURA DOLAN, TECHNOLOGY EDITOR

Marvell purchased Avera Semiconductor in an effort to become a leading ASIC supplier for wired and wireless infrastructure.

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CONTEST
Cypress Bluetooth 5 Design Contest

Win up to $2000US by building a Bluetooth 5 IoT project with one (or both, or multiple!) of Cypress? CYW20819 Bluetooth 5 Kits! Designs will be accepted until June 7, 2019. Win a free kit and have a chance at the Grand Prize.

Learn More or Register Now! +

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Optimizing the Engineering Life Cycle Requires Digital Transformation
IBM

In this new and timely executive briefing paper by MIT Technology Review Insights, learn how engineering teams use new technologies and agile processes to optimize the engineering lifecycle and continuously improve product development.

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Debunking the Top Myths About Unsupported Linux for Embedded Development
SUSE

While the allure of unsupported Linux draws in many, the long-term costs and resource requirements associated with updating, patching, and scaling those systems can become prohibitive. With embedded Linux operating systems from SUSE, you can stay focused on creating innovative products that are secure, easy to manage, and supported by a trusted partner with a proven track record in open source technology.

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Make the Connection Between AI and the IoT

AVNET

The Internet of Things (IoT) has been around for a very long time. In fact, the technology far predates the term. Some historians will tell you that the IoT moniker has been with us since the late 1990s, but we know that connecting our “things” started well before that.

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Unlock Productivity with 5 InsightCM Features for Remote Diagnostics

NATIONAL INSTRUMENTS

Better uptime starts with better data. A reliability engineer can’t be in two places at once. When assets at different plants raise concern, the engineer needs to quickly and accurately determine which asset is more likely to contribute to an outage.

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Isolator vs Optocoupler Technology

SILICON LABS

Optocouplers have been the go-to signal isolation solution for years, but digital isolators fabricated in complementary metallic oxide semiconductor (CMOS) process technology are gaining favor in the design community.

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The Impact of the Internet of Things on Product Development

IBM

The IoT is changing consumer behavior and expectations, and leading businesses are responding to its challenges and opportunities. Product development in the IoT world is increasingly consumer driven, requiring proactive development processes that include feedback loops as early and as often as possible in the design process.
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