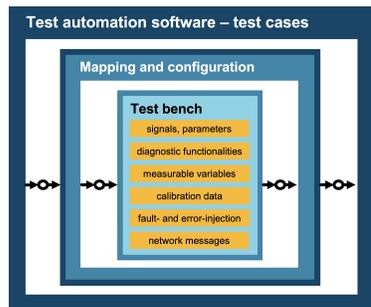




MAY 2019

FEATURE



Achieving Effective Verification and Validation of Vehicle E/E Systems ? Part 3

LANCE BROOKS, MENTOR

Testing a digital twin of a system begins at the test bench, which is an abstraction that provides the ability to execute a system under test (SUT) and then access data within it. The digital twin of an electrical/electronic (E/E) system includes simulations of all its ECUs, networks, mechatronic hardware, and other parts.

[Read More +](#)

BLOG

Layered Architecture Delivers More Reliable Automotive Applications, Faster

ROLAND KRAUSE, INTEGRATED COMPUTER SOLUTIONS

Today's consumers are used to a rapid pace of innovation. Mobile and web apps can be developed and updated quickly so there's always something new to appeal to consumers -- a reality that heightens their expectations. Unfortunately for automotive manufacturers, traditional approaches to developing in-vehicle-infotainment (IVI) systems are often characterized by long development times.

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BLOG

Connected Cars Deliver Convenience Along with Security Risks

JEFF LEBLANC, BOSTON UX

High-speed wireless networks have made possible the Connected Car, a vehicle that is as connected to the internet as a smartphone. As with the phone, this connectivity creates a

plethora of opportunities for service providers to meet the needs of drivers, allowing them to stream media, check stock quotes, and even shop for merchandise from their vehicles.

[Read More +](#)

Intel? Neural Compute Stick 2

Powered by the Intel? Movidius? X VPU and supports OpenVINO?, a toolkit that accelerates solution development and streamlines deployment.

BLOG

All-in-One Power Solution for Automotive Infotainment?Single IC Produces Five Rails Directly from Battery

JIN-JYH SU AND TERRY GROOM, ANALOG DEVICES, INC.

Our connected and media driven lifestyles are a result of, or a reason for, technology?s push into every aspect of our lives, including today?s highly integrated automotive infotainment systems. The complex mix of electronic components contained in automobile infotainment systems mirrors consumer electronics: high performance microcontrollers, memory, interface, and driver ICs.

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NEWS



TDK Corporation Releases New Embedded Motor Controller for Automotive Applications

LAURA DOLAN, TECHNOLOGY EDITOR

TDK Corporation has added the Micronas embedded motor controller with the HVC 4420F to its portfolio. It has an extended flash memory to 64 KB and SRAM to 4 KB, conducive for small brush-type, stepper, or brushless

motor drives and meets the latest demands of the automotive industry.

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NEWS



Autotalks Navigates Successful C-V2X Field Test in China

LAURA DOLAN, TECHNOLOGY EDITOR

Autotalks successfully completed a C-V2X field test with a Chinese technology giant that demonstrated the capabilities of being on a public road, including 3GPP release 15 compliant transmit diversity and an impressive communication range of over 2km with a nominal range of over 1.5km.

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NEWS



Diodes Incorporated Releases Fast-Dimming 60V Linear LED Controller Serves Automotive LED Lighting

ALIX PAULTRE, SENIOR TECHNOLOGY EDITOR

Diodes Incorporated announced the availability of the AL5816Q automotive-compliant linear LED controller for automotive lighting. With an operating voltage range of 4.5V to 60V, the AL5816Q supplies an output drive current of 15mA to control LED lights through an external BJT, delivering a constant current up to 1.5A, or higher LED current if a MOSFET is used.

[Read More +](#)

Continental's ContiPressureCheck TPMS Joins Forces with Truck-Lite Co.'s Road Ready Trailer Telematics

LAURA DOLAN, TECHNOLOGY EDITOR

Continental has combined its ContiPressureCheck tire pressure monitoring system (TPMS) with Truck-Lite Co.'s Road Ready trailer telematics system, transmitting data to the cloud, providing full disclosure of tire vitals.

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Machine Learning at the Edge

Sponsored by: FogHorn Systems, SensiML

Date: May 14, 2:00 p.m. ET

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