

ELECTRIC VEHICLES FEATURE

Bringing Next-Generation USB Power Delivery to Vehicles

The traditional USB Type-A connector, already available in models from all major automotive OEMs, provides power capabilities up to 7.5 W (up to 1.5 A current at 5 V). However, with the rapid adoption of the USB Type-C connector in PCs, smart phones, and other portable electronic devices, USB Type-A is quickly becoming a legacy connector.

[Read more](#)



AUTOMOTIVE STORAGE NEWS

Toshiba Using Cypress Semper Fail-Safe Storage with Next-Generation Automotive Advanced Driver Assistance Systems

Developed with Arm Cortex-M0 processing core, the Semper family is built for automotive environments where high-density and functional safety compliance are required. The Toshiba Visconti™ ADAS SoC is targeted for automobile makers working toward Autonomous Driving level 2.

[Read more](#)

AUTONOMOUS DEVELOPMENT TOOLS & OPERATING SYSTEMS NEWS

eXtremeDB 8.1 Supports Several Principles of AUTOSAR

The new v8.1 release is compatible with principles in AUTOSAR such as

disassociation from the hardware and the operating system. Therefore, there is no OS-based memory management, no threads/processes, and no kernel-based synchronization primitives.

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AUTOMOTIVE DEVELOPMENT TOOLS & OPERATING SYSTEMS NEWS

CLASS Software Framework Makes Modena Smarter in Real-Life Setting

Allowing big-data analytics under real-time constraints, the CLASS software architecture provides a solution to managing extremely large amounts of complex data (pedestrians, traffic, vehicles, etc.) in real time. Data-in-motion and data-at-rest analytics are integrated into a single development framework, which works with real-time guarantees.

[Read more](#)

AUTOMOTIVE POWER ELECTRONICS NEWS

AVX Releases New High-Temperature, Glass-Encapsulated Multilayer Varistors Rated for 150°C Operation

Made of zinc oxide (ZnO) based ceramic semiconductor devices with nonlinear, bi-directional voltage-current (V-I), TransGuard Automotive VGH Series combine bi-directional overvoltage circuit protection and EMI/RFI filtering functions in an SMT device.

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AUTOMOTIVE NETWORKING NEWS

Murata Manufacturing Co. Common Mode Choke Coil for Automotive Ethernet

This product has an operating temperature range of -55 to +150°C, allowing it to be used in harsh temperature environments. The product functions by using metal termination that absorbs the stresses associated with temperature change. Due to its small size, ECUs can be installed in a wider range of areas.

[Read more](#)

AUTOMOTIVE DEVELOPMENT TOOLS & OPERATING SYSTEMS NEWS

Release of Parasoft C/C++test Enabling Organizations Adopt AUTOSAR C++14 Standard

The release focuses on streamlining safety-critical and security coding standards compliance and reporting, bringing coverage for AUTOSAR C++14 and updated rule sets for detecting security weaknesses.

[Read more](#)

AUTONOMOUS POWER ELECTRONICS NEWS

Rimac Chooses Analog Devices to Enable Precision Battery Management in High Performance Electric Vehicles

The Rimac C_Two is an electric hypercar capable of speeds of up to 258 miles per hour. ADI's battery management ICs deliver measurements for safe vehicle operation and maximizing vehicle range per charge.

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WEBCAST

Empowering Next-Generation Automotive Wireless Systems Using Advanced Test Solutions

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EMBEDDED EXECUTIVE INTERVIEW SERIES

Embedded Executive: Andrew Longhurst, Managing Director, WITTENSTEIN High Integrity Systems

The semiconductor content in today's (and tomorrow's) automobiles continues to grow. That's a good thing for lots of people. Unfortunately, that list includes the bad guys, as more end points appear in the vehicle, more entry points become vulnerable to hackers.

[Tune in](#)



**EMBEDDED
EXECUTIVE**

Andrew Longhurst

Director, Wittenstein High Integrity Systems

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