AUTOMOTIVE POWER ELECTRONICS FEATURE

Reduce Power Supply Requirements for Ceramic Capacitors

The price of the multilayer ceramic capacitors (MLCCs) has risen sharply over the past several years, tracking the expansion in the number of power supplies used in the automotive industry. For instance, the proliferation of the advanced driver assistance systems (ADAS) in automobiles has dramatically increased ceramic capacitor usage rates.

The quest to increase the performance of industrial and automotive systems calls for increases in data processing speed of several orders of magnitude, with an increasing number of power-hungry devices squeezed into microprocessors, CPUs, system on chips (SoCs), ASICs, and FPGAs. Read more

AUTOMOTIVE NETWORKING NEWS

MIPI Completes A-PHY for Long-Reach Automotive Data Transfer

The MIPI Alliance has completed the A-PHY v1.0 interface specification for automotive data transfer, a long-reach SerDes interface that operates as a point-to-point asymmetric data link. Read more
NI Launches New ECU Test System to Streamline Functional Test
NI announced its first ever, purpose-built ECU Test System offering which assists Tier 1 suppliers in end-of-life testing.
Read more

AUTOMOTIVE NETWORKING NEWS
Valens Announces First MIPI A-PHY-Compliant Automotive Serializer,Deserializer Chipsets
The VA7000 serializers and deserializers target ultra-high-speed networking applications in ADAS and autonomous drive subsystems.
Read more

IN-VEHICLE INFOTAINMENT NEWS
Toshiba Adds Automotive Display Interface Bridge ICs for IVI Systems
Toshiba Electronics Europe GmbH has added two new display interface bridge ICs to their product lineup for automotive in-vehicle infotainment (IVI) systems.
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AUTOMOTIVE POWER ELECTRONICS NEWS
Murata Introduces World’s Smallest Ferrite Chip Beads for Automotive Power Supply Applications
The BLM18SP_SH1 series features the world’s smallest single-chip ferrite beads for noise suppression in automotive power supply applications.
Read more

AUTOMOTIVE PROCESSING NEWS
Imagination’s GPU Selected by SemiDrive for Automotive Chip
Imagination Technologies announced that Nanjing SemiDrive Technology (SemiDrive) is using Imagination’s PowerVR Series9XM GPU in its smart cockpit chip X9.
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DEV KIT WEEKLY HARDWARE REVIEW & RAFFLE
Microchip Hello FPGA Kit
The SmartFusion 2 FPGA SoCs on the Hello! Kit is a flash-based FPGA device that packs in 12,000 logic elements, 21 18K LSRAM blocks, 22, 1K SRAM blocks, 22 math blocks that can be cascaded for DSP functions, and 2 programmable logic libraries and clock conditioning circuits.
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