

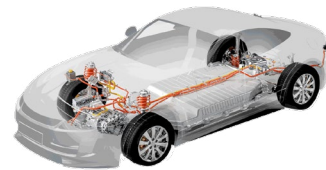
What's new in automotive electrification?

ti.com/electronica

Evolving vehicle voltage board nets

A single high-voltage board net may seem like the obvious choice to address the growing electrical energy needs in the car. The reality is that may not be true.

[Read technical article](#)



Drive EVs farther with GaN

Our industry-first automotive GaN with integrated gate driver and protection offers up to 2.2 MHz switching speed and a 59% power magnetic size reduction.

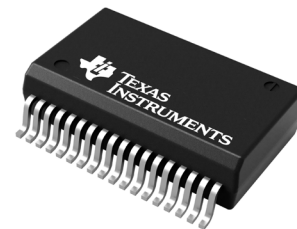
[Learn more](#)



High drive strength for even more horsepower

From building security systems to HVAC systems to smart The new automotive-qualified UCC5870-Q1 isolated gate driver is an integrated solution for a cost optimized SiC or IGBT combo box powertrain architecture.

[Learn more](#)



How to design heating & cooling systems for HEV/EV

The HVAC system is one of the most power-hungry systems within a vehicle so designing a power-efficient HVAC system is essential in 48-V, 400-V or 800-V HEV/EVs. Learn about new HVAC control modules, unique subsystems and functional solutions.

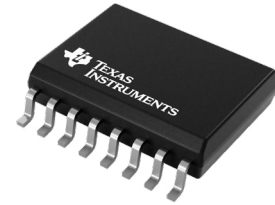
[Read white paper](#)



Reinforced digital isolator with integrated power

The ISOW7841A-Q1, automotive digital isolator with a low-emission integrated DC-DC converter, provides up to 650 mW of isolated power at high efficiency, eliminating the need for a separate isolated power supply in space-constrained designs.

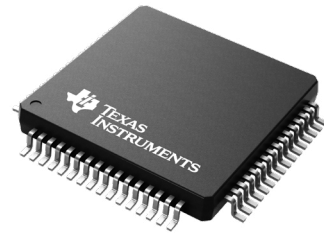
[View product](#)



Real-time MCUs designed for EV systems

Get innovative control capabilities while lowering costs with C2000™ real-time MCUs. Devices that are tailored specifically for EV and powertrain systems and uniquely suited for power electronics.

[Discover more](#)



Cars get a jolt from 48 V

Learn how 48-V systems are acting as the step-change that enables OEMs to reach emissions requirements and supply power to increasingly power-hungry systems.

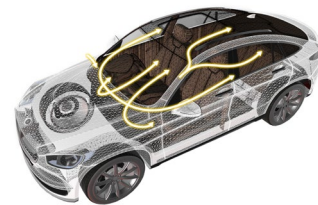
[Read blog](#)



Drive IGBTs in your EV HVAC design

There are performance advantages in using three half-bridge gate drivers vs. 3-phase gate drivers in HVAC compressor modules. Learn about the performance upgrade when using the UCC27712-Q1 half-bridge gate driver.

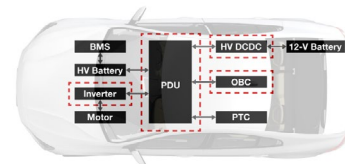
[Read forum post](#)



Integrate your powertrain systems

DC/DC plus OBC or OBC plus traction inverter? Two of many choices for integrating your powertrain systems into an EV combo-box architecture. A choice with many tradeoffs and different design needs.

[Read technical article](#)



Three questions to ask about wireless BMS

Intrigued by the potential of wireless BMS? So are we. See which questions you should ask when considering wireless and to understand the tradeoffs between wired and wireless BMS.

[Read technical article](#)

