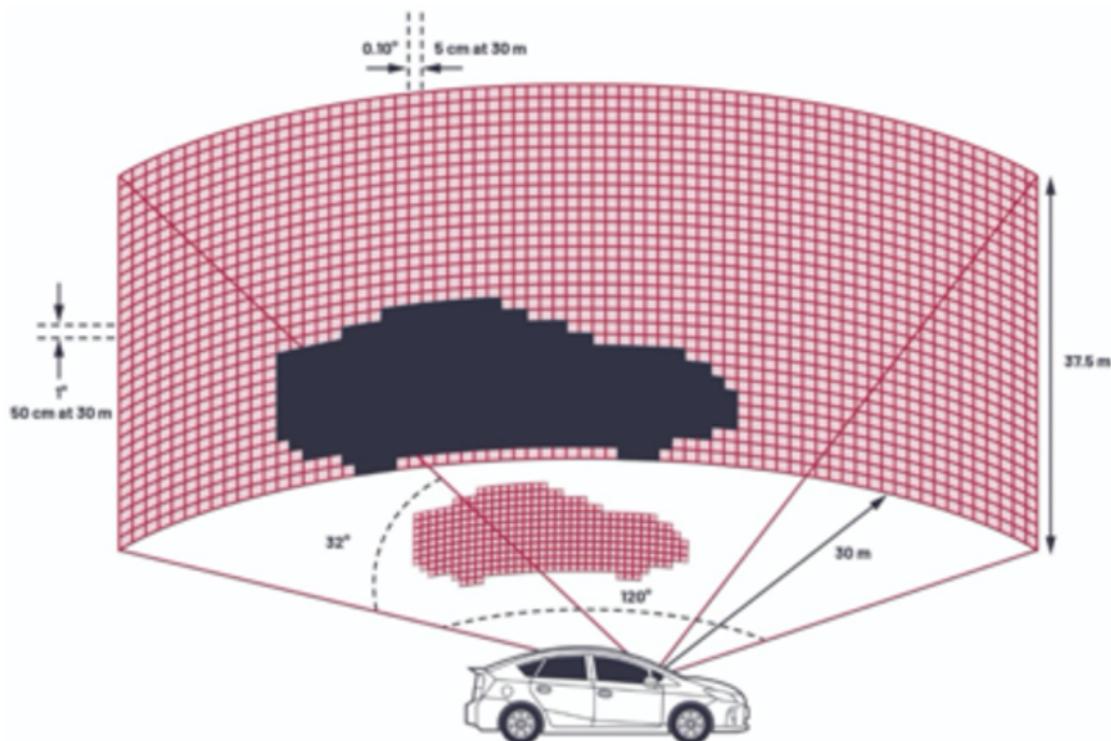


ADAS FEATURE

LIDAR for Autonomous System Design: Object Classification or Object Detection?

The promise of a fully autonomous tomorrow no longer seems like a pipe dream. Today, the questions around autonomy center on the underlying technologies and the advancements needed to make autonomy a reality. Light detection and ranging (LIDAR) has become one of the most discussed technologies supporting the shift to autonomous applications, but many questions remain. LIDAR systems with ranges greater than 100 m and 0.1° of angular resolution continue to dominate autonomous driving technology headlines.

[Read more](#)



AUTONOMOUS VEHICLES NEWS

ADLINK's Edge AI Powers Autonomous Race Cars for Indy Autonomous Challenge

ADLINK will provide university teams with rugged deep learning acceleration edge platforms, engineering resources for in-vehicle computing, and open source software support for ROS-based middleware.

[Read more](#)



AUTOMOTIVE TESTING NEWS

Rohde & Schwarz Supports the UNH-IOL in Automotive Ethernet Testing Services for OPEN Alliance TC9 Test Specification

The collaboration on an automotive test platform between Rohde & Schwarz and UNH-IOL is designed to benefit OEMs, Tier1s, Tier2s, and system integrators who want to submit their products for compliance test certification.

[Read more](#)

AUTOMOTIVE SECURITY NEWS

First Cryptographic Companion Device Brings Pre-programmed Security to the Automotive Market

Microchip Technology announced its CryptoAutomotive security IC, the TrustAnchor100 (TA100). The cryptographic companion device is designed to support in-vehicle network security solutions such as secure boot, firmware update and message authentication, including Controller Area Network (CAN) MAC at bus speed.

[Read more](#)

ADAS NEWS

OmniVision, Ambarella, and Smart Eye Partner on Automotive Industry?s First Combined Driver Monitoring and Videoconferencing Camera Solution

OmniVision, Ambarella, and Smart Eye, announced the automotive industry?s first complete solution for dual-mode camera applications. This joint solution simultaneously monitors drivers while capturing vehicle occupants for one-way videoconferencing.

[Read more](#)

AUTOMOTIVE INDUSTRY NEWS

Approov Partnership with BMW Group Provides Car Share Experience

Approov announced a partnership with BMW Group to provide a secure, safe, and seamless car-sharing experience. Per the companies, the BMW Group Car Sharing Platform, including the Approov SDK, has already been deployed in several thousand vehicles globally.

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SPONSORED WHITE PAPER

Protecting your Assets: IP Protection ? essential to protect your business and your customers

Stolen IP can be modified in a fraudulent manner and can contain backdoors and side channels. The lack of integrity means modified Software IP can potentially enter connected safety-critical systems, a good example, of which is a modern car.

[Read more](#)

SPONSORED VIDEO

LYNX MOSA.ic for Industrial

This video provides a brief introduction to our system development framework

for building Mission Critical Edge solutions: [LYNX MOSA.ic?](#) for Industrial.

[View now](#)

WEBCAST

Autonomous Vehicles: We're Already There (Sort Of)

Sponsored by: **Achronix, Lattice, DFI, Cadence, Arm**

Date: **November 19, 11:00 a.m. ET**

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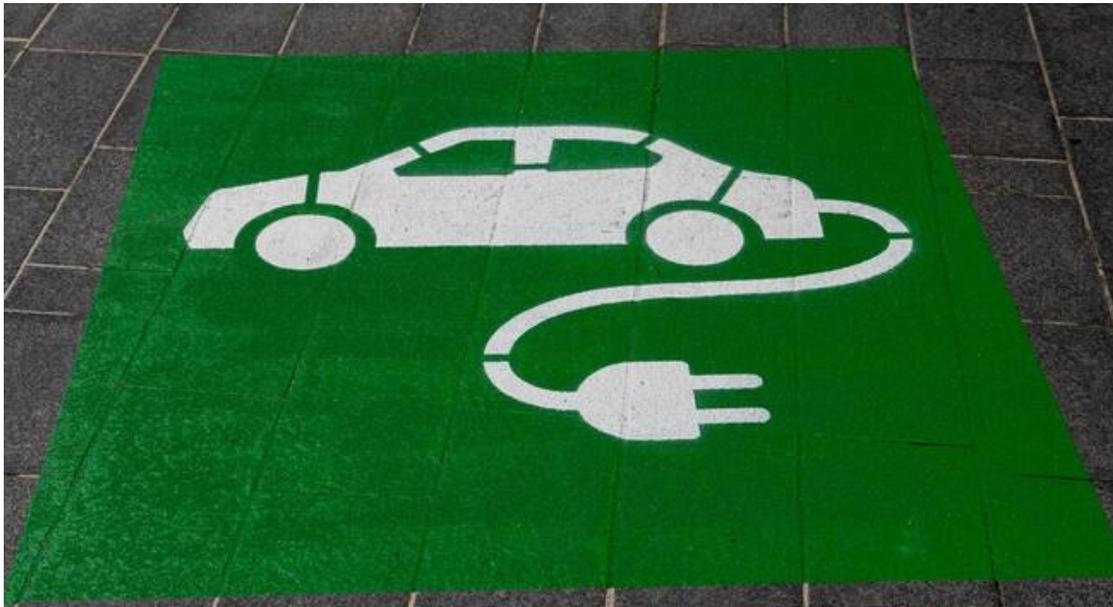
AUTOMOTIVE POWER ELECTRONICS FEATURE

3 Next-Gen SiC Semiconductor Applications in Automotive

Silicon carbide (SiC) semiconductors have recently risen in popularity as a growing number of engineers choose them over previous semiconductors made from silicon. They can tolerate higher voltage levels and temperatures than silicon semiconductors.

Both of these characteristics and others make them appealing for use in the automotive sector. These semiconductors offer advantages appreciated by car manufacturers and owners alike, such as faster battery charging and better energy-efficiency. Here are three examples of exciting progress in that sector:

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