Driving the Future: Passenger Car Intelligent Chassis and Domain Controller Market Set for Transformational Growth

Passenger Car Intelligent Chassis and Chassis Domain Controller Market

WILMINGTON, NEW CASTLE, DE, UNITED STATES, January 23, 2025 /EINPresswire.com/ -- Allied Market Research published a report, titled, "Passenger Car Intelligent Chassis and Chassis Domain Controller Market by Vehicle Type (Sedans, SUVs, Hatchbacks and Others), Vehicle Propulsion (Internal Combustion Engine, Battery Electric Vehicle, Hybrid Electric Vehicle and Others), and Chassis Type (Chassis Type, Rear-wheel drive, All-wheel drive and Four-wheel drive): Global Opportunity Analysis and Industry Forecast, 2024-2033". According to the report, the passenger car intelligent chassis and chassis domain controller market was valued at $2.5 billion in 2023, and is estimated to reach $8.9 billion by 2033, growing at a CAGR of 13.9% from 2024 to 2033.

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The global passenger car intelligent chassis and chassis domain controller market is experiencing growth due to several factors such as stringent safety regulations mandating the integration of advanced driver assistance systems (ADAS), increased consumer demand for vehicles equipped with advanced safety and convenience features and technological advancements. However, the high cost associated with the development and integration of intelligent chassis and domain controller systems and complexity and integration challenges hinder market growth to some extent. Moreover, rapid urbanization and traffic congestion and rise in adoption of electric vehicles offers lucrative opportunities for the expansion of the global passenger car intelligent chassis and chassis domain controller market.

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□□□ □□□□□□□□ □□□□, ZF Friedrichshafen AG introduced its latest high-performance computing platform, the Vehicle Motion Domain (VMD) Controller. This central computer is adaptable for all chassis platforms, vehicle motion and body functions, next-generation software-defined cars, and future domain and zone E/E architectures. The VMD Controller plays a crucial role in defining a car's ride and handling characteristics through its integration with wheel guidance, damping, suspension, steering, and brakes. The trend towards the electrification and software control of these systems is rapidly accelerating.
□□□ □□□□□□□□□ □□□□, CATL announced that its CIIC (CATL Integrated Intelligent Chassis) skateboard platform successfully completed testing in China, achieving impressive performance metrics including a 1, 000 km range, consumption of 10.5 kWh/100km, and the ability to charge 300 km in just 5 minutes. The CIIC integrates high-voltage and low-voltage systems, steering and braking systems, and chassis domain controllers, utilizing CTC (cell-to-chassis) technology. Mass production of the first electric vehicle (EV) equipped with CIIC is set to commence in the third quarter of next year.
□□□ □□□□□□□□□ □□□□, NXP Semiconductors and Hon Hai Technology Group (Foxconn) inaugurated a joint laboratory at the Foxconn Nankan Facility in Taiwan, marking a significant step in their strategic collaboration for software-defined electric vehicle development. The lab's objective is to expedite Foxconn's initiatives in software-defined electric vehicles, utilizing NXP's extensive electrification portfolio and cross-vehicle system solutions. These solutions, employing the S32G and S32K3 families for domain and zonal controllers, target service-oriented gateways, vehicle networking, and safe vehicle control.

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By vehicle type, the SUVs segment held the highest market share in 2023. The increasing popularity of SUVs globally, driven by factors such as their versatility, perceived safety, and consumer preferences, has led automakers to focus on integrating advanced chassis technologies and domain controllers in these vehicles to enhance their performance, handling, and safety features.

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By vehicle propulsion, the internal combustion engine segment held the highest market share in 2023. While the adoption of electric vehicles (EVs) is increasing, ICE vehicles still dominate global automotive sales, and automakers continue to invest in advanced chassis technologies for these vehicles to meet evolving safety standards and consumer expectations.

By chassis type, the four-wheel drive segment held the highest market share in 2023. Front-wheel drive (FWD) vehicles are popular among automakers and consumers due to their efficient packaging, better fuel economy, and lower manufacturing costs compared to other chassis types. As a result, automakers prioritize the integration of intelligent chassis technologies and domain controllers in FWD vehicles to enhance their performance and safety characteristics.

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By region, Asia-Pacific held the highest market share in terms of revenue in 2023. This is due to the presence of major automotive manufacturing hubs in countries such as China, Japan, South Korea, and India, coupled with the growing demand for advanced automotive technologies, safety features, and autonomous driving capabilities in these regions.

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STMicrocontrollers
Visteon Corporation
Infineon Technologies
Robert Bosch GmbH
Aptiv PLC
Renesas
Texas Instruments
Panasonic Corporation
NXP Semiconductors
ZF Friedrichshafen AG
Continental AG

The report provides a detailed analysis of these key players in the global passenger car intelligent chassis and chassis domain controller market . These players have adopted different strategies such as new product launches, collaborations, expansion, joint ventures, agreements, and others to increase their market share and maintain dominant shares in different regions. The report is valuable in highlighting business performance, operating segments, product portfolio, and strategic moves of market players to showcase the competitive scenario.

About Us

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