

Automotive Microprocessor Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Application (Body Electronics, Chassis & Powertrain, Infotainment & Telematics, Safety & Security), By Technology (ACC, Blind Spot Detection, Park Assist, TPMS), By Region, By Competition Forecast & Opportunities, 2018-2028

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Abstracts

The Global Automotive Microprocessor Market was valued at USD 10.75 billion in 2022 and is growing at a CAGR of 7.78% during the forecast period. The ascendancy of the Global Automotive Microprocessor Market has been nothing short of revolutionary, orchestrating a profound transformation across various sectors and ushering in a digital renaissance in the realm of automotive technology. These interconnected advancements serve as the foundation for the emergence of digital twins of vehicles and automotive assets, signaling the dawn of an era characterized by heightened control, optimization, and predictive maintenance in the automotive industry. The Global Automotive Microprocessor Market is poised for substantial expansion, driven by a confluence of influential factors. A pivotal catalyst fueling the demand for Automotive Microprocessors is the relentless pursuit of cost-efficiency and heightened operational excellence within the automotive sector. Industries spanning from automotive manufacturing to transportation are diligently exploring innovative avenues to streamline their operations, reduce costs, and enhance performance. The arsenal of Vehicle Health Monitoring Systems (VHMS) technology empowers automotive organizations to create digital replicas of their vehicles and assets, endowing them with the capability to monitor performance, detect latent issues, and preemptively address potential breakdowns. The integration of VHMS technology is on a rapid trajectory, primarily propelled by the influx of data from an extensive network of sensors, IoT devices, and

automotive machinery. This influx of data provides a wealth of invaluable insights into vehicle performance, paving the way for data-driven decision-making and the strategic implementation of predictive maintenance strategies. As a result, the adoption of Automotive Microprocessors is surging across the automotive spectrum, encompassing segments such as passenger vehicles, commercial vehicles, and even autonomous vehicles. Furthermore, industry experts and visionaries have wholeheartedly embraced the adoption of Automotive Microprocessors, further bolstering its market potential. Seasoned professionals within the automotive sector unequivocally recognize the transformative potential of VHMS technology, envisioning it as a conduit to elevate operational efficiency, enhance safety standards, and boost overall productivity. This enthusiastic reception has set the stage for a surge in investments in Automotive Microprocessors, with a collective determination to revolutionize traditional automotive practices and propel the industry into an era of innovation. One remarkable facet of VHMS technology is its adaptability to craft tailored solutions for specific automotive niches. For instance, in the realm of autonomous vehicles, Automotive Microprocessors enable the creation of digital replicas of vehicles and their environments. This precision engineering facilitates intricate tasks such as real-time decision-making, obstacle detection, and navigation, ultimately leading to heightened safety and reliability standards in autonomous driving technology. In summary, the Global Automotive Microprocessor Market stands on the cusp of remarkable expansion, propelled by the unwavering pursuit of cost-efficiency, operational excellence, and the unwavering trust of automotive industry pioneers. As the automotive sector continues its relentless journey towards digital transformation, Automotive Microprocessors remain unwavering as a linchpin, meticulously shaping the contours of the automotive future. The radiant potential of Automotive Microprocessors serves as a guiding beacon for the global automotive industry, illuminating the path towards an era of unprecedented efficiency, safety, and innovation in automotive technology.

Key Market Drivers

Increasing Demand for Advanced Driver Assistance Systems (ADAS)

The global automotive microprocessor market is experiencing a significant surge in demand, primarily driven by the increasing adoption of Advanced Driver Assistance Systems (ADAS) in modern vehicles. ADAS refers to a suite of technologies and features designed to enhance vehicle safety and improve the overall driving experience. These systems rely heavily on powerful microprocessors to process vast amounts of data from various sensors and cameras, making real-time decisions to assist the driver

in various driving scenarios. One of the key factors fueling the growth of the automotive microprocessor market is the growing concern for road safety. Governments and regulatory bodies around the world are imposing stricter safety standards and regulations, compelling automakers to integrate ADAS into their vehicles. These systems encompass functionalities such as adaptive cruise control, lane-keeping assist, blind-spot monitoring, automatic emergency braking, and parking assistance, among others. As consumers increasingly prioritize safety features, the demand for vehicles equipped with ADAS has surged, thereby driving the need for more advanced microprocessors. Moreover, consumer expectations for a seamless and convenient driving experience have also contributed to the rising popularity of ADAS. Features like autonomous parking, traffic jam assist, and advanced navigation systems have become more prevalent, requiring high-performance microprocessors to handle the complex computations and data processing involved. As automakers strive to differentiate their vehicles in a competitive market, they are continually incorporating new and advanced ADAS features, further propelling the demand for automotive microprocessors. Furthermore, the automotive industry's transition toward electric and hybrid vehicles is bolstering the demand for microprocessors. Electric vehicles (EVs) and hybrid vehicles rely heavily on microprocessors for battery management, energy optimization, and powertrain control. The integration of ADAS features in these eco-friendly vehicles enhances their appeal, attracting environmentally conscious consumers and governments offering incentives for EV adoption. Another significant driver for the automotive microprocessor market is the increasing connectivity in vehicles. Modern cars are becoming increasingly connected to the internet, enabling features such as infotainment systems, over-the-air software updates, and cloud-based services. These connectivity features require advanced microprocessors to ensure seamless communication and data processing, enhancing the overall user experience. Additionally, the proliferation of autonomous vehicles is set to revolutionize the automotive industry, and microprocessors are at the core of this transformation. Self-driving cars rely on an array of sensors, cameras, and data-processing units to navigate, make split-second decisions, and ensure safety. As autonomous driving technology continues to advance, the demand for high-performance microprocessors will only intensify. In conclusion, the increasing demand for Advanced Driver Assistance Systems (ADAS) is a driving force behind the global automotive microprocessor market's growth. The convergence of safety concerns, consumer preferences for enhanced driving experiences, the shift toward electric vehicles, growing connectivity, and the rise of autonomous driving are all contributing to the need for more advanced and powerful microprocessors in the automotive industry. As technology continues to evolve, automotive microprocessors will play a pivotal role in shaping the future of safer, more efficient, and connected transportation.

Rising Demand for Electric and Hybrid Vehicles:

The global automotive microprocessor market is experiencing remarkable growth, largely fueled by the surging demand for electric and hybrid vehicles. Electric and hybrid vehicles represent a significant shift in the automotive industry towards eco-friendly and energy-efficient transportation solutions. These vehicles heavily rely on advanced microprocessors to manage complex powertrain systems, optimize energy usage, and facilitate various electronic functions, thus driving the expansion of the automotive microprocessor market.

One of the primary drivers behind this trend is the increasing awareness of environmental issues and the need to reduce carbon emissions. Governments worldwide are implementing stringent emissions regulations and promoting electric and hybrid vehicles through incentives and subsidies. Consumers are also becoming more environmentally conscious, leading to a growing preference for vehicles that produce fewer greenhouse gases. As a result, automakers are rapidly expanding their electric and hybrid vehicle offerings, creating a substantial demand for microprocessors tailored to these vehicles' specific needs. Electric vehicles (EVs) and hybrid vehicles (HEVs) are characterized by their advanced powertrains, which include high-capacity batteries and electric motors. Microprocessors play a crucial role in managing these components, ensuring efficient energy utilization, and enhancing overall vehicle performance. Battery management systems (BMS) rely on microprocessors to monitor and control the battery's state of charge, temperature, and health, thus optimizing battery life and range. Similarly, powertrain control units (PCUs) utilize microprocessors to manage the electric motor's output and the seamless transition between electric and internal combustion engine (ICE) power, a key feature in many hybrid vehicles. Furthermore, as electric and hybrid vehicles continue to evolve, the demand for advanced driver assistance systems (ADAS) in these vehicles is on the rise. ADAS technologies, such as adaptive cruise control, lane-keeping assist, and autonomous driving features, depend on powerful microprocessors to process data from various sensors and cameras. The integration of ADAS not only enhances safety but also elevates the overall driving experience for EV and HEV owners. This has led to automakers incorporating more sophisticated microprocessors into their electric and hybrid vehicle models, further boosting the market. Additionally, the growing interest in electric vehicles has spurred competition among automakers. As a result, they are constantly striving to differentiate their EV and HEV offerings by integrating advanced infotainment systems, connectivity features, and software updates. These features rely heavily on microprocessors to provide a seamless user experience. As consumers demand more

connectivity and convenience in their vehicles, automakers are investing in advanced microprocessor technologies to meet these expectations. Moreover, the global push for smart cities and sustainable urban mobility solutions has accelerated the adoption of electric and hybrid vehicles, particularly in urban environments. Governments are incentivizing electric mobility, such as electric public transportation and shared electric vehicle fleets, to reduce congestion and emissions. Microprocessors are crucial for managing fleet operations, optimizing routes, and ensuring efficient charging and energy management, making them indispensable components in the growing electrified urban transportation sector. In conclusion, the rising demand for electric and hybrid vehicles is a key driving force behind the global automotive microprocessor market's rapid expansion. As the world transitions toward more sustainable and environmentally friendly transportation options, microprocessors play a central role in powering and optimizing the performance of these vehicles. Whether managing advanced powertrains, facilitating energy-efficient battery usage, or enabling sophisticated ADAS and connectivity features, microprocessors are at the forefront of the automotive industry's transformation towards cleaner and more technologically advanced vehicles.

Expanding Connectivity and Infotainment Features

The global automotive microprocessor market is experiencing robust growth, largely propelled by the expanding connectivity and infotainment features in modern vehicles. Today's consumers demand a seamless and connected driving experience, which has prompted automakers to incorporate advanced microprocessors to power an array of infotainment, communication, and entertainment systems within vehicles. This trend is reshaping the automotive industry and driving the need for more powerful and sophisticated microprocessors. One of the primary drivers behind the surge in demand for automotive microprocessors is the increasing integration of connectivity features. Modern vehicles are becoming increasingly connected to the internet, allowing for real-time communication and data exchange. This connectivity enables a host of functionalities, including over-the-air software updates, remote diagnostics, and vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communication. Microprocessors are the brains behind these systems, processing and managing the vast amounts of data exchanged between the vehicle and external networks, ensuring a smooth and secure connection. Infotainment systems are another critical component of today's vehicles, offering a wide range of features such as touch-screen displays, voice recognition, navigation, streaming services, and smartphone integration. These sophisticated infotainment systems require powerful microprocessors to provide a responsive and intuitive user experience. Consumers expect seamless connectivity to their smartphones and other devices, and microprocessors play a central role in facilitating

these connections and delivering high-quality audio and visual experiences. Furthermore, the demand for advanced driver assistance systems (ADAS) is on the rise, driven in part by the integration of connectivity features. ADAS relies on microprocessors to process data from sensors and cameras, enabling features like adaptive cruise control, lane-keeping assist, and automated parking. These systems enhance vehicle safety and are often integrated with infotainment displays to provide drivers with real-time information about their surroundings. As the capabilities of ADAS continue to expand, the demand for more powerful microprocessors to support these systems is increasing. In addition to enhancing safety and entertainment, connectivity features are also enabling new business models and services within the automotive industry. For example, ride-sharing and car-sharing services rely on connected vehicles to manage fleets efficiently, track vehicle locations, and provide remote access to vehicles. Microprocessors are essential in supporting the software platforms that enable these services to operate seamlessly, opening up new revenue streams for automakers. Moreover, as the automotive industry moves towards autonomous vehicles, microprocessors will play an even more critical role. Self-driving cars require advanced processing power to analyze sensor data, make split-second decisions, and navigate complex environments. The connectivity of autonomous vehicles to other vehicles and traffic infrastructure further necessitates robust microprocessor technology to ensure safe and reliable operation. The global trend towards smart cities and the development of intelligent transportation systems (ITS) is also contributing to the demand for automotive microprocessors. These systems aim to improve traffic management, reduce congestion, and enhance overall transportation efficiency. Microprocessors are integral to the functioning of ITS by processing data from vehicle-to-infrastructure (V2I) communication systems, traffic sensors, and other components to optimize traffic flow and improve safety..

Key Market Challenges

Rapid Technological Advancements:

One of the foremost challenges in the global automotive microprocessor market is the rapid pace of technological advancements. Microprocessors are at the heart of automotive innovation, powering increasingly complex systems like Advanced Driver Assistance Systems (ADAS), infotainment, and connectivity features. As technology evolves, microprocessors must continuously improve in terms of processing power, energy efficiency, and integration capabilities. This poses a challenge for microprocessor manufacturers who need to invest heavily in research and development to keep up with the ever-growing demands of the automotive industry. Additionally, the

short product life cycles in the tech world mean that microprocessors can quickly become obsolete, leading to concerns about compatibility and support for older vehicles. Thus, balancing the need for cutting-edge technology with the long-term stability required in the automotive sector is a significant challenge.

Cybersecurity Concerns

With the increasing connectivity and reliance on software-driven systems in modern vehicles, cybersecurity has become a paramount concern in the automotive microprocessor market. Hackers are continually seeking vulnerabilities to exploit, potentially compromising the safety and privacy of drivers and passengers. Microprocessors that manage vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communication, infotainment systems, and autonomous driving features are particularly susceptible to cyberattacks. Ensuring the robust security of these systems is a daunting challenge. Manufacturers need to invest in robust encryption, authentication, and intrusion detection mechanisms to protect against cyber threats. Moreover, they must stay vigilant and agile in responding to emerging cybersecurity risks, given the dynamic nature of cyber threats. As the automotive industry moves toward more connected and autonomous vehicles, addressing cybersecurity challenges is paramount to building trust among consumers and regulators.

Supply Chain Disruptions

The automotive microprocessor market is susceptible to supply chain disruptions, which have become increasingly prevalent in recent years due to various factors, including the COVID-19 pandemic and geopolitical tensions. Microprocessors often involve complex supply chains with components sourced from multiple regions worldwide. Disruptions in the supply of critical components, such as semiconductor chips, can significantly impact production schedules and vehicle assembly. These disruptions can lead to delays in launching new vehicle models, reduced production volumes, and increased costs due to component scarcity. As automakers and microprocessor manufacturers become more interdependent, they need to develop strategies to mitigate supply chain risks. This may involve diversifying suppliers, increasing stockpiles of critical components, or investing in local semiconductor manufacturing capacity to reduce reliance on foreign suppliers. Effectively managing supply chain disruptions is crucial to ensuring the smooth operation of the automotive microprocessor market.

Key Market Trends

Increasing Integration of Artificial Intelligence (AI):

As vehicles become more connected and autonomous, the integration of artificial intelligence (AI) into automotive microprocessors is a notable trend. AI-powered microprocessors are essential for processing the vast amount of data generated by sensors, cameras, and radar systems in modern vehicles. These AI-driven processors enable advanced driver assistance systems (ADAS) and autonomous driving capabilities. Machine learning and deep learning algorithms are being incorporated into automotive microprocessors to enhance perception, decision-making, and overall vehicle safety. For instance, AI-powered microprocessors can identify and classify objects on the road, predict potential collision risks, and make real-time decisions to control the vehicle's behavior, such as adjusting speed or steering to avoid obstacles. This trend not only improves safety but also enhances the overall driving experience. Furthermore, AI-driven infotainment systems offer personalized recommendations, voice recognition, and natural language processing, making interactions with the vehicle more intuitive and user-friendly. AI also plays a crucial role in predictive maintenance, allowing vehicles to proactively identify and address potential issues before they lead to breakdowns, thereby reducing downtime and maintenance costs.

Electrification and Powertrain Innovation:

The shift toward electric and hybrid vehicles is another significant trend in the automotive microprocessor market. Electric vehicles (EVs) and hybrid electric vehicles (HEVs) require advanced microprocessors to manage their powertrains efficiently. Microprocessors in these vehicles control the flow of electricity, optimize energy usage, and monitor the health of high-capacity batteries. Battery management systems (BMS), driven by microprocessors, ensure that lithium-ion batteries are charged and discharged optimally to extend their lifespan and maintain performance. Microprocessors also manage regenerative braking systems, which capture and convert kinetic energy into electrical energy for recharging the battery. Moreover, microprocessors are vital in enabling fast-charging capabilities in EVs, ensuring safe and efficient charging processes. As the electrification trend continues, there is a growing emphasis on improving energy efficiency and range, which places additional demands on microprocessor technology. Additionally, some automakers are exploring innovative powertrain configurations, such as hydrogen fuel cells and in-wheel electric motors. These unconventional approaches require specialized microprocessors to control and optimize these new propulsion systems, contributing to the overall trend of powertrain innovation in the industry.

Enhanced Connectivity and Over-the-Air Updates:

The demand for enhanced connectivity and over-the-air (OTA) software updates is reshaping the automotive microprocessor market. Modern vehicles are increasingly connected to the internet, enabling a wide range of features and services.

Microprocessors play a central role in facilitating seamless connectivity and supporting OTA updates. Connected cars are equipped with microprocessors that enable real-time communication with cloud-based services, allowing drivers and passengers to access navigation, streaming media, and other online content. These processors also support vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communication, contributing to safer and more efficient transportation systems. OTA updates have become a standard feature in many vehicles, allowing manufacturers to deliver software improvements, bug fixes, and new features remotely. Microprocessors are essential for managing the download, installation, and verification of these updates. This trend benefits consumers by ensuring that their vehicles remain up-to-date with the latest technology and safety enhancements without requiring a visit to the dealership. Furthermore, connected vehicles generate vast amounts of data, which can be leveraged for various purposes, including predictive maintenance, traffic management, and personalized services. Microprocessors process this data, enabling automakers to develop data-driven strategies for improving vehicle performance and customer experiences.

Segmental Insights

Application Insights Most of the turnover in 2022 was provided by the Infotainment & Telematics segment, which, according to forecasts, will continue to dominate in the following years. The Infotainment & Telematics segment has been a dominant and rapidly growing application area in the global automotive microprocessor market. This trend can be attributed to the increasing consumer demand for advanced infotainment systems, connectivity features, and telematics services in vehicles. Consumers seek seamless integration of smartphones, access to entertainment, navigation, real-time traffic information, and connectivity to the internet, all of which rely heavily on microprocessors. Advanced infotainment systems with touch-screen displays, voice recognition, and integration with smartphones have become standard features in many vehicles. These systems are powered by microprocessors, making them essential components in modern cars. Additionally, telematics services, which provide vehicle tracking, remote diagnostics, and over-the-air software updates, have gained prominence. Microprocessors play a crucial role in enabling these services, contributing to the growth of this segment.

Regional Insights

Asia Pacific is estimated to lead the automotive microcontroller market during the forecast period, followed by North America and Europe. The European market is growing at a steady pace like most of the vehicles are equipped with state-of-the-art electronics and safety elements. North America the market will experience balanced growth in value and volume for microcontrollers the market gained popularity in the region. The current vehicles are already in North America equipped with advanced safety features and chassis electronics that will satisfy most on the market..

Key Market Players

NXP Semiconductors

INFINEON TECHNOLOGIES

Texas Instruments

Renesas Electronics

STMicroelectronics

QUALCOMM TECHNOLOGIES

NVIDIA

Intel

MediaTek

Broadcom

Report Scope:

In this report, the Global Automotive Microprocessor Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Automotive Microprocessor Market, By Application:

Body Electronics

Chassis & Powertrain

Infotainment & Telematics

Safety & Security

Global Automotive Microprocessor Market, By Technology:

ACC

Blind Spot Detection

Park Assist

TPMS

Global Automotive Microprocessor Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Automotive Microprocessor Market.

Available Customizations:

Global Automotive Microprocessor Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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14. STRATEGIC RECOMMENDATIONS

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