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United States Automotive PCB Market By Type (Single-Sides PCB, Double-Sided PCB, Multi-Layer PCB), By Autonomy (Autonomous, Conventional), By Application (Powertrain Components, Infotainment Components, ADAS), By Propulsion (Internal Combustion Engine, Battery Electric Vehicle, Hybrid Electric Vehicle), By Region, By Competition, Opportunities & Forecast, 2020-2030F

https://marketpublishers.com/r/UFB33D280830EN.html
Date: August 2025
Pages: 87
Price: US$ 3,500.00 (Single User License)
ID: UFB33D280830EN

Abstracts

Market Overview

United States Automotive PCB Market was valued at USD 586.85 million in 2024 and is expected to reach USD 794.77 million by 2030 with a CAGR of 5.20% during the forecast period.

The United States Automotive PCB market is seeing substantial growth, driven by the increasing integration of electronics in vehicles. The ongoing shift towards electric vehicles (EVs) has made automotive PCBs essential for the functioning of key components such as batteries, inverters, and charging systems. As EV adoption rises, automakers require more sophisticated electronic systems, which directly increases the demand for automotive PCBs. Moreover, advancements in driver assistance technologies, including sensors and ADAS systems, are significantly enhancing the electronics content in vehicles. This trend of adding more technology to vehicles contributes to the growing demand for high-performance PCBs that can handle increased complexity and reliability requirements.

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Market Drivers

Demand for Electric Vehicles (EVs)

The transition to electric vehicles has led to a substantial increase in the use of automotive printed circuit boards (PCBs). According to the U.S. Department of Energy (DOE), electric vehicle sales in the U.S. surpassed 1.4 million units in 2023, marking a 52% increase year-over-year. This surge significantly boosts the demand for high-power and multi-layer PCBs used in EV control units, battery management systems, and inverters.

Electric vehicles require advanced PCBs to manage key components such as batteries, power inverters, and electric motors. These components require complex circuitry to function efficiently, with a demand for high-power density PCBs that can handle increased electrical loads. As automakers continue to scale up their production of EVs, the need for reliable, high-performance PCBs grows, supporting the broader push toward clean energy transportation. The shift from internal combustion engines to electric drivetrains is one of the primary drivers behind the expansion of the automotive PCB market in the United States.

Key Market Challenges

Complexity of Automotive Electronic Systems

As automotive systems become more advanced, the complexity of the printed circuit boards (PCBs) required to support these systems has also increased. Modern vehicles are equipped with a range of sophisticated technologies such as advanced driver assistance systems (ADAS), infotainment, connectivity, and electric drivetrains. Each of these systems demands specific PCB designs with higher precision, greater functionality, and enhanced durability. The integration of multiple functionalities into a single PCB while ensuring that it can withstand the harsh conditions of automotive environments, such as temperature fluctuations, vibrations, and moisture, presents significant challenges to manufacturers. Meeting these increasing design complexities while maintaining performance, reliability, and cost-efficiency is a continual hurdle for PCB manufacturers.

Key Market Trends

Integration of Advanced Driver Assistance Systems (ADAS)

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One of the most significant trends in the automotive PCB market is the growing integration of Advanced Driver Assistance Systems (ADAS) in vehicles. ADAS technologies, which include features like lane-keeping assist, adaptive cruise control, collision avoidance, and automated parking, rely heavily on a network of sensors, cameras, and processors. These systems demand high-performance and highly reliable PCBs capable of supporting sophisticated electronics. The trend toward ADAS is accelerating the need for PCBs that are not only durable and compact but also capable of handling complex signal processing and data transfer. The rising consumer demand for safer and more autonomous vehicles is expected to continue driving this trend in the coming years.

Key Market Players

BendPak Inc.

AdvancedPCB

TTM Technologies, Inc.

Avery Dennison Corporation

Multek Corporation

Zentech Manufacturing

PCB Technologies Ltd.

Sumitomo Electric Group

Benchmark Electronics, Inc.

KYOCERA Corporation

Report Scope:

In this report, the United States Automotive PCB Market has been segmented into the following categories, in addition to the industry trends which have also been detailed

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below:

United States Automotive PCB Market, By Type:

Single-Sides PCB

Double-Side PCB

Multi-Layer PCB

United States Automotive PCB Market, By Autonomy:

Autonomous

Conventional

United States Automotive PCB Market, By Application:

Powertrain Components

Infotainment Component

ADAS

United States Automotive PCB Market, By Propulsion:

Battery Electric Vehicle

Hybrid Electric Vehicle

Internal Combustion Engine

United States Automotive PCB Market, By Region:

South

West

Mid-West

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Northeast

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the United States Automotive PCB Market.

Available Customizations:

United States Automotive PCB Market report with the given market data, TechSci Research, offers customizations according to the 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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