

US Drive by Wire Market Size study, by Application (Throttle by Wire, Shift by Wire, Brake by Wire, Park by Wire, Steer by Wire) by Vehicle Type (Passenger Car, Commercial Vehicle, Electric Vehicle, Off-highway Vehicles) by Component (Actuator, Electronic Control Unit (ECU), Engine Control Module (ECM), Electronic Throttle Control Module (ETCM), Electronic Transmission Control Unit (ETCU), Feedback Motor, Parking Pawl, Sensors, Others) Forecasts 2022-2032

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Abstracts

US Drive by Wire Market is valued approximately USD 4.58 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 7.14% over the forecast period 2024-2032. Drive by wire systems replace traditional mechanical linkages, such as throttle cables, with electronic control systems. This technology allows for the electronic control of vehicle functions like throttle, braking, and steering, enhancing vehicle performance, efficiency, and safety. The US Drive by Wire Market is the segment of the automotive industry in the United States that focuses on Drive by Wire technology. The market encompasses manufacturers, suppliers, and stakeholders involved in the research, development, and implementation of drive by wire systems across various types of vehicles, including passenger cars, trucks, and commercial vehicles, in the United States. Trend such as improved safety, performance, efficiency, and connectivity in modern vehicles, will provide opportunity for the US Drive by Wire Market during the forecast period 2024-2032.

Fuel efficiency and emissions reduction are significant drivers propelling the demand for the US Drive by Wire market. With mounting concerns over environmental sustainability and stringent regulations aimed at curbing greenhouse gas emissions, automakers are increasingly turning to drive by wire technology to optimize vehicle performance. Drive by wire systems enable precise electronic control over essential vehicle functions such as throttle response and transmission shifting, allowing for more efficient power management and improved fuel economy. Furthermore, its technology facilitates the integration of advanced engine management systems and hybrid powertrains, enabling automakers to develop vehicles with lower carbon footprints. By optimizing the combustion process and minimizing energy wastage, drive by wire systems contribute to reduced fuel consumption and lower emissions of harmful pollutants such as carbon dioxide and nitrogen oxides. However, retrofitting existing vehicles or integrating drive-by-wire systems into new vehicle designs can be costly and concerns about the potential for electronic system failures, which could lead to loss of vehicle control, these factors can stifle market growth during the forecast period 2024-2032.

Major market player included in this report are:

Curtiss-Wright Corporation

Nexteer Automotive

Wipro Limited

REE Automotive, Ltd.

Company 5

Company 6

Company 7

Company 8

Company 9

Company 10

The detailed segments and sub-segment of the market are explained below:

By Application

Throttle by Wire

Shift by Wire

Brake by Wire

Park by Wire

Steer by Wire

By Vehicle Type

Passenger Car

Commercial Vehicle

Electric Vehicle

Off-highway Vehicles

By Component

Actuator

Electronic Control Unit (ECU)

Engine Control Module (ECM)

Electronic Throttle Control Module (ETCM)

Electronic Transmission Control Unit (ETCU)

Feedback Motor

Parking Pawl

Sensors

Others

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and Country level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

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