

Global 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) and Regional Forecasts 2022-2032

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Abstracts

Global Drive by Wire Market is valued approximately USD 21.21 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 7.21% over the forecast period 2024-2032. Drive by wire systems or X by wire systems, include the electronic substitution of multiple electronic systems for conventional mechanical connections. These systems regulate the acceleration, braking, steering, and other operations of a car. These operations are usually controlled by mechanical or hydraulic parts in conventional vehicles. But with time, the wear and tear that these mechanical parts are subject to will cause them to lose some of their efficiency. Drive by wire technology has been developed by several key companies to tackle these issues. With the shift towards electric and hybrid vehicles, drive by wire systems are becoming more prevalent. Electric vehicles (EVs) require sophisticated electronic controls for power management, regenerative braking, and other functions, making drive by wire technology essential. Thus, these trends further help in growth of the Global Drive by Wire Market during the forecast period 2024-2032.

Advancements in automotive technology are significantly driving the demand for the Global Drive by Wire Market. The continuous evolution of automotive technology, propelled by factors such as electrification, connectivity, and automation, has transformed the way vehicles are designed, operated, and perceived by consumers. The rise of electric vehicles (EVs) necessitates sophisticated drive by wire systems to manage power delivery, regenerative braking, and other critical functions. For instance, in February 2024, REE Automotive Ltd. announced that it has begun customer deliveries of its x-by-wire P7-C electric chassis cab. Drive by wire technology plays a pivotal role in enhancing the efficiency, performance, and safety of EVs, driving demand for these systems. Moreover, the increasing integration of advanced driver assistance systems (ADAS) and autonomous driving features relies heavily on drive by wire technology. As automotive technology continues to advance, with ongoing innovation in electronic control systems, sensors, and actuators, the demand for the Global Drive by Wire Market is expected to increase further. However, establishing facilities for producing second-generation biofuels requires significant capital investment and high conversion efficiency from lignocellulosic biomass to biofuels remains a technical challenge that can stifle market growth between 2022 and 2032.

The key regions considered for the Global Drive by Wire Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, Asia Pacific was the dominating regional market in terms of revenue and expected to grow at the fastest rate over the forecast period 2024-2032. The Asia Pacific region is a hub for automotive manufacturing, with many global automakers establishing production facilities in countries such as China and India. The increasing production of vehicles in the region fuels the demand for Global Drive by Wire Market. Furthermore, the region's rapid economic development, particularly in countries such as China, India, Japan, and South Korea, has led to increased consumer purchasing power and demand for automobiles. Thus, automakers are incorporating advanced technologies like drive by wire systems to cater to the growing market.

Major market player included in this report are:

Robert Bosch GmbH

Nissan Motor Co., Ltd.

Hitachi Astemo, Ltd.

Denso Corporation

Curtiss-Wright Corporation

Kongsberg Automotive

Ficosa Corporation SA

Continental AG
ZF Friedrichshafen AG
Nexteer Automotive

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

By Region:
North America
U.S.
Canada
Europe
UK
Germany
France
Spain

Italy
ROE
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Middle East & Africa
Saudi Arabia
South Africa
RoMEA

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 regional 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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