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Automotive Transceivers Market by Protocol (CAN, LIN, Flexray, and Others), Vehicle Type (Passenger Cars, Commercial Vehicles), Application (Body Electronics, Infotainment, Powertrain, Chassis and Safety), and Region 2024-2032

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Abstracts

The global automotive transceivers market size reached US$ 6.0 Billion in 2023. Looking forward, IMARC Group expects the market to reach US$ 9.3 Billion by 2032, exhibiting a growth rate (CAGR) of 4.89% during 2024-2032. The significant growth in the automotive industry, rising expenditure capacities of consumers, and extensive research and development (R&D) activities represent some of the key factors driving the market.

Automotive transceivers are electronic devices that are used in vehicles to enable communication between different components of the vehicle's electrical system. They consist of microcontrollers, transceiver chips, power management units (PCU), and oscillators. They are widely used engine control units, transmission control units, dashboards, multimedia, navigation, telematics, and electric power steering systems. Automotive transceivers are designed to operate in harsh automotive environments, including extreme temperatures, vibration, and electromagnetic interference. They help to ensure reliable and efficient communication between the various electronic components in the vehicle, helping to provide a safe and comfortable driving experience. As a result, automotive transceivers are widely used in passenger cars and commercial vehicles and offer a range of advantages, such as improved efficiency, safety, comfort, convenience, and performance.

Automotive Transceivers Market Trends:
The significant growth in the automotive industry across the globe is one of the key

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factors creating a positive outlook for the market. Automotive transceivers are widely used in modern vehicles to enable reliable and efficient communication between electronic components. In line with this, the widespread utilization of automotive transceivers owing to the increasing demand for connected cars is favoring the market growth. Automotive transceivers enable communication with other devices and networks by providing a reliable and efficient means of transmitting data between electronic components in a vehicle. Moreover, the increasing need for cost-effective and reliable electronic components that can improve the efficiency, safety, and comfort of vehicles is acting as another growth including factor. Apart from this, manufacturers are focusing on the development of more advanced and efficient transceivers that can meet the needs of the modern automotive industry, which in turn is propelling the market growth. Additionally, the widespread product adoption in luxury vehicles that include advanced safety features, such as collision avoidance systems and adaptive cruise control features, is providing an impetus to the market growth. Furthermore, the increasing inclination towards the introduction of miniaturized automotive transceivers that are smaller and more compact, which makes them easier to integrate into modern vehicles, is positively influencing the market growth. Other factors, including rising expenditure capacities of consumers, growing demand for infotainment and multimedia technologies, extensive research and development (R&D) activities, and increasing demand for electric and hybrid vehicles, are anticipated to drive the market growth.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each segment of the global automotive transceivers market, along with forecasts at the global, regional, and country levels from 2024-2032. Our report has categorized the market based on protocol, vehicle type, and application.

Protocol Insights:

CAN
LIN
Flexray
Others

The report has provided a detailed breakup and analysis of the automotive transceivers market based on the protocol. This includes CAN, LIN, flexray and others. According to the report, LIN represented the largest segment.

Vehicle Type Insights:

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Passenger Cars
Commercial Vehicles

A detailed breakup and analysis of the automotive transceivers market based on the vehicle type has also been provided in the report. This includes passenger cars and commercial vehicles. According to the report, passenger cars accounted for the largest market share.

Application Insights:

Body Electronics
Body Control Module
HVAC
Dashboard
Others
Infotainment
Multimedia
Navigation
Telematics
Others
Powertrain
Engine Management System
Auto Transmission
Chassis and Safety
Electric Power Steering
ADAS/Autonomous Driving

The report has provided a detailed breakup and analysis of the automotive transceivers market based on the application. This includes body electronics (body control module, HVAC, dashboard, and others), infotainment (multimedia, navigation, telematics, and others), powertrain (engine management system and auto transmission), chassis and safety (electric power steering and ADAS/autonomous driving). According to the report, body electronics represented the largest segment.

Regional Insights:

North America
United States

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Canada
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific was the largest market for automotive transceivers. Some of the factors driving the Asia Pacific automotive transceivers market included extensive research and development (R&D) activities, rising expenditure capacities of consumers, and rapid technological advancements.

Competitive Landscape:
The report has also provided a comprehensive analysis of the competitive landscape in the global automotive transceivers market. Detailed profiles of all major companies have also been provided. Some of the companies covered include Analog Devices Inc, Elmos Semiconductor, Melexis (Xtrion N.V.), Microchip Technology Inc, National Instruments Corporation, NXP Semiconductors N.V., Renesas Electronics Corporation, Robert

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Bosch Gesellschaft mit beschr?nkter Haftung, Rohm Semiconductor, STMicroelectronics N.V., Texas Instruments Incorporated, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:
How has the global automotive transceivers market performed so far, and how will it perform in the coming years?
What are the drivers, restraints, and opportunities in the global automotive transceivers market?
What is the impact of each driver, restraint, and opportunity on the global automotive transceivers market?
What are the key regional markets?
Which countries represent the most attractive automotive transceivers market?
What is the breakup of the market based on the protocol?
Which is the most attractive protocol in the automotive transceivers market?
What is the breakup of the market based on the vehicle type?
Which is the most attractive vehicle type in the automotive transceivers market?
What is the competitive structure of the global automotive transceivers market?
What is the breakup of the market based on the application?
Which is the most attractive application in the automotive transceivers market?
Who are the key players/companies in the global automotive transceivers market?

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Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

2.1 Objectives of the Study
2.2 Stakeholders
2.3 Data Sources
  2.3.1 Primary Sources
  2.3.2 Secondary Sources
2.4 Market Estimation
  2.4.1 Bottom-Up Approach
  2.4.2 Top-Down Approach
2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

4.1 Overview
4.2 Key Industry Trends

5 GLOBAL AUTOMOTIVE TRANSCEIVERS MARKET

5.1 Market Overview
5.2 Market Performance
5.3 Impact of COVID-19
5.4 Market Forecast

6 MARKET BREAKUP BY PROTOCOL

6.1 CAN
  6.1.1 Market Trends
  6.1.2 Market Forecast
6.2 LIN
  6.2.1 Market Trends
  6.2.2 Market Forecast
6.3 Flexray

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6.3.1 Market Trends
6.3.2 Market Forecast
6.4 Others
6.4.1 Market Trends
6.4.2 Market Forecast

7 MARKET BREAKUP BY VEHICLE TYPE

7.1 Passenger Cars
7.1.1 Market Trends
7.1.2 Market Forecast
7.2 Commercial Vehicles
7.2.1 Market Trends
7.2.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

8.1 Body Electronics
8.1.1 Market Trends
8.1.2 Key Segments
8.1.2.1 Body Control Module
8.1.2.2 HVAC
8.1.2.3 Dashboard
8.1.2.4 Others
8.1.3 Market Forecast
8.2 Infotainment
8.2.1 Market Trends
8.2.2 Key Segments
8.2.2.1 Multimedia
8.2.2.2 Navigation
8.2.2.3 Telematics
8.1.2.4 Others
8.2.3 Market Forecast
8.3 Powertrain
8.3.1 Market Trends
8.3.2 Key Segments
8.3.2.1 Engine Management System
8.3.2.2 Auto Transmission
8.3.3 Market Forecast

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8.4 Chassis and Safety
8.4.1 Market Trends
8.4.2 Key Segments
8.4.2.1 Electric Power Steering
8.4.2.2 ADAS/Autonomous Driving
8.4.3 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 North America
9.1.1 United States
9.1.1.1 Market Trends
9.1.1.2 Market Forecast
9.1.2 Canada
9.1.2.1 Market Trends
9.1.2.2 Market Forecast
9.2 Asia-Pacific
9.2.1 China
9.2.1.1 Market Trends
9.2.1.2 Market Forecast
9.2.2 Japan
9.2.2.1 Market Trends
9.2.2.2 Market Forecast
9.2.3 India
9.2.3.1 Market Trends
9.2.3.2 Market Forecast
9.2.4 South Korea
9.2.4.1 Market Trends
9.2.4.2 Market Forecast
9.2.5 Australia
9.2.5.1 Market Trends
9.2.5.2 Market Forecast
9.2.6 Indonesia
9.2.6.1 Market Trends
9.2.6.2 Market Forecast
9.2.7 Others
9.2.7.1 Market Trends
9.2.7.2 Market Forecast
9.3 Europe

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9.3.1 Germany
9.3.1.1 Market Trends
9.3.1.2 Market Forecast
9.3.2 France
9.3.2.1 Market Trends
9.3.2.2 Market Forecast
9.3.3 United Kingdom
9.3.3.1 Market Trends
9.3.3.2 Market Forecast
9.3.4 Italy
9.3.4.1 Market Trends
9.3.4.2 Market Forecast
9.3.5 Spain
9.3.5.1 Market Trends
9.3.5.2 Market Forecast
9.3.6 Russia
9.3.6.1 Market Trends
9.3.6.2 Market Forecast
9.3.7 Others
9.3.7.1 Market Trends
9.3.7.2 Market Forecast
9.4 Latin America
9.4.1 Brazil
9.4.1.1 Market Trends
9.4.1.2 Market Forecast
9.4.2 Mexico
9.4.2.1 Market Trends
9.4.2.2 Market Forecast
9.4.3 Others
9.4.3.1 Market Trends
9.4.3.2 Market Forecast
9.5 Middle East and Africa
9.5.1 Market Trends
9.5.2 Market Breakup by Country
9.5.3 Market Forecast

10 DRIVERS, RESTRAINTS, AND OPPORTUNITIES

10.1 Overview

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10.2 Drivers
10.3 Restraints
10.4 Opportunities

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

12.1 Overview
12.2 Bargaining Power of Buyers
12.3 Bargaining Power of Suppliers
12.4 Degree of Competition
12.5 Threat of New Entrants
12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure
14.2 Key Players
14.3 Profiles of Key Players
14.3.1 Analog Devices Inc
14.3.1.1 Company Overview
14.3.1.2 Product Portfolio
14.3.1.3 Financials
14.3.1.4 SWOT Analysis
14.3.2 Elmos Semiconductor
14.3.2.1 Company Overview
14.3.2.2 Product Portfolio
14.3.2.3 Financials
14.3.2.4 SWOT Analysis
14.3.3 Infineon Technologies AG
14.3.3.1 Company Overview
14.3.3.2 Product Portfolio
14.3.3.3 Financials
14.3.3.4 SWOT Analysis
14.3.4 Melexis (Xtrion N.V.)
14.3.4.1 Company Overview

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14.3.4.2 Product Portfolio
14.3.5 Microchip Technology Inc
14.3.5.1 Company Overview
14.3.5.2 Product Portfolio
14.3.5.3 Financials
14.3.5.4 SWOT Analysis
14.3.6 National Instruments Corporation
14.3.6.1 Company Overview
14.3.6.2 Product Portfolio
14.3.6.3 Financials
14.3.6.4 SWOT Analysis
14.3.7 NXP Semiconductors N.V.
14.3.7.1 Company Overview
14.3.7.2 Product Portfolio
14.3.7.3 Financials
14.3.7.4 SWOT Analysis
14.3.8 Renesas Electronics Corporation
14.3.8.1 Company Overview
14.3.8.2 Product Portfolio
14.3.8.3 Financials
14.3.8.4 SWOT Analysis
14.3.9 Robert Bosch Gesellschaft mit beschr?nkter Haftung
14.3.9.1 Company Overview
14.3.9.2 Product Portfolio
14.3.9.3 SWOT Analysis
14.3.10 Rohm Semiconductor
14.3.10.1 Company Overview
14.3.10.2 Product Portfolio
14.3.10.3 Financials
14.3.10.4 SWOT Analysis
14.3.11 STMicroelectronics N.V.
14.3.11.1 Company Overview
14.3.11.2 Product Portfolio
14.3.12 Texas Instruments Incorporated
14.3.12.1 Company Overview
14.3.12.2 Product Portfolio
14.3.12.3 Financials
14.3.12.4 SWOT Analysis

Kindly note that this only represents a partial list of companies, and the complete list

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has been provided in the report.

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List Of Tables

LIST OF TABLES

Table 1: Global: Automotive Transceivers Market: Key Industry Highlights, 2023 & 2032
Table 2: Global: Automotive Transceivers Market Forecast: Breakup by Protocol (in Million US$), 2024-2032
Table 3: Global: Automotive Transceivers Market Forecast: Breakup by Vehicle Type (in Million US$), 2024-2032
Table 4: Global: Automotive Transceivers Market Forecast: Breakup by Application (in Million US$), 2024-2032
Table 5: Global: Automotive Transceivers Market Forecast: Breakup by Region (in Million US$), 2024-2032
Table 6: Global: Automotive Transceivers Market: Competitive Structure
Table 7: Global: Automotive Transceivers Market: Key Players

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List Of Figures

LIST OF FIGURES

Figure 1: Global: Automotive Transceivers Market: Major Drivers and Challenges
Figure 2: Global: Automotive Transceivers Market: Sales Value (in Billion US$), 2018-2023
Figure 3: Global: Automotive Transceivers Market Forecast: Sales Value (in Billion US$), 2024-2032
Figure 4: Global: Automotive Transceivers Market: Breakup by Protocol (in %), 2023
Figure 5: Global: Automotive Transceivers Market: Breakup by Vehicle Type (in %), 2023
Figure 6: Global: Automotive Transceivers Market: Breakup by Application (in %), 2023
Figure 7: Global: Automotive Transceivers Market: Breakup by Region (in %), 2023
Figure 8: Global: Automotive Transceivers (CAN) Market: Sales Value (in Million US$), 2018 & 2023
Figure 9: Global: Automotive Transceivers (CAN) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 10: Global: Automotive Transceivers (LIN) Market: Sales Value (in Million US$), 2018 & 2023
Figure 11: Global: Automotive Transceivers (LIN) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 12: Global: Automotive Transceivers (Flexray) Market: Sales Value (in Million US$), 2018 & 2023
Figure 13: Global: Automotive Transceivers (Flexray) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 14: Global: Automotive Transceivers (Other Protocols) Market: Sales Value (in Million US$), 2018 & 2023
Figure 15: Global: Automotive Transceivers (Other Protocols) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 16: Global: Automotive Transceivers (Passenger Cars) Market: Sales Value (in Million US$), 2018 & 2023
Figure 17: Global: Automotive Transceivers (Passenger Cars) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 18: Global: Automotive Transceivers (Commercial Vehicles) Market: Sales Value (in Million US$), 2018 & 2023
Figure 19: Global: Automotive Transceivers (Commercial Vehicles) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 20: Global: Automotive Transceivers (Body Electronics) Market: Sales Value (in

Million US$), 2018 & 2023
Figure 21: Global: Automotive Transceivers (Body Electronics) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 22: Global: Automotive Transceivers (Infotainment) Market: Sales Value (in Million US$), 2018 & 2023
Figure 23: Global: Automotive Transceivers (Infotainment) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 24: Global: Automotive Transceivers (Powertrain) Market: Sales Value (in Million US$), 2018 & 2023
Figure 25: Global: Automotive Transceivers (Powertrain) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 26: Global: Automotive Transceivers (Chassis and Safety) Market: Sales Value (in Million US$), 2018 & 2023
Figure 27: Global: Automotive Transceivers (Chassis and Safety) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 28: North America: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 29: North America: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 30: United States: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 31: United States: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 32: Canada: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 33: Canada: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 34: Asia-Pacific: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 35: Asia-Pacific: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 36: China: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 37: China: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 38: Japan: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 39: Japan: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032

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Figure 40: India: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 41: India: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 42: South Korea: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 43: South Korea: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 44: Australia: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 45: Australia: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 46: Indonesia: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 47: Indonesia: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 48: Others: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 49: Others: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 50: Europe: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 51: Europe: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 52: Germany: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 53: Germany: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 54: France: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 55: France: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 56: United Kingdom: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 57: United Kingdom: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 58: Italy: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 59: Italy: Automotive Transceivers Market Forecast: Sales Value (in Million US$),

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2024-2032
Figure 60: Spain: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 61: Spain: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 62: Russia: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 63: Russia: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 64: Others: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 65: Others: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 66: Latin America: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 67: Latin America: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 68: Brazil: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 69: Brazil: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 70: Mexico: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 71: Mexico: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 72: Others: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 73: Others: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 74: Middle East and Africa: Automotive Transceivers Market: Sales Value (in Million US$), 2018 & 2023
Figure 75: Middle East and Africa: Automotive Transceivers Market: Breakup by Country (in %), 2023
Figure 76: Middle East and Africa: Automotive Transceivers Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 77: Global: Automotive Transceivers Industry: Drivers, Restraints, and Opportunities
Figure 78: Global: Automotive Transceivers Industry: Value Chain Analysis
Figure 79: Global: Automotive Transceivers Industry: Porter's Five Forces Analysis

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