

Global Automotive Ethernet Gateway Market Growth 2025-2031

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Abstracts

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The global FIB-SEM System market size is predicted to grow from US\$ 644 million in 2025 to US\$ 910 million in 2031; it is expected to grow at a CAGR of 5.9% from 2025 to 2031.

The FIB-SEM system is an electron microscope system that integrates focused electron beams and scanning ion beams. Focused ion beams can be used for micro processing of samples, scanning electron beams can be used for micro imaging and 'two-dimensional' characterization analysis of sample surface morphology, and real-time observation of the FIB processing process. Therefore, the FIB-SEM system can achieve fixed-point etching, deposition, cross-sectional cutting, TEM electron microscopy sample preparation, and micro/nano device preparation of samples Circuit repair, 3D structural characterization, etc.

Global key players of FIB-SEM System include Thermo Fisher Scientific Hitachi and Zeiss, etc. The top three players hold a share over 85%. Japan is the largest market. In terms of product type, Ga Ion Source is the largest segment, occupied for a share of 95%, and in terms of application, Material Science has a share about 40 percent.

Analysis of FIB-SEM system market drivers

1. Demand for semiconductor technology iteration

Advanced process node promotion:

3nm/2nm chip process requires atomic-level defect detection, and FIB-SEM supports nanoscale circuit editing and material composition analysis (such as EDS/EBSD integration) to help improve yield.

3D packaging technology (such as Chiplet) relies on FIB-SEM for through-silicon via (TSV) cross-sectional analysis and interface defect positioning.

Semiconductor material innovation:

The microstructure research of third-generation semiconductors (GaN, SiC) and two-dimensional materials (graphene) requires FIB-SEM to achieve atomic-level resolution imaging (

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Automotive Ethernet Gateway Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Automotive Ethernet Gateway by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Automotive Ethernet Gateway by Country/Region, 2020, 2024 & 2031
- 2.2 Automotive Ethernet Gateway Segment by Type
 - 2.2.1 Ethernet Port Only Type
 - 2.2.2 Hybrid Type
- 2.3 Automotive Ethernet Gateway Sales by Type
 - 2.3.1 Global Automotive Ethernet Gateway Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Automotive Ethernet Gateway Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Automotive Ethernet Gateway Sale Price by Type (2020-2025)
- 2.4 Automotive Ethernet Gateway Segment by Application
 - 2.4.1 Passenger Car
 - 2.4.2 Commercial Vehicle
- 2.5 Automotive Ethernet Gateway Sales by Application
 - 2.5.1 Global Automotive Ethernet Gateway Sale Market Share by Application (2020-2025)
 - 2.5.2 Global Automotive Ethernet Gateway Revenue and Market Share by Application (2020-2025)
 - 2.5.3 Global Automotive Ethernet Gateway Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Automotive Ethernet Gateway Breakdown Data by Company

3.1.1 Global Automotive Ethernet Gateway Annual Sales by Company (2020-2025)

3.1.2 Global Automotive Ethernet Gateway Sales Market Share by Company (2020-2025)

3.2 Global Automotive Ethernet Gateway Annual Revenue by Company (2020-2025)

3.2.1 Global Automotive Ethernet Gateway Revenue by Company (2020-2025)

3.2.2 Global Automotive Ethernet Gateway Revenue Market Share by Company (2020-2025)

3.3 Global Automotive Ethernet Gateway Sale Price by Company

3.4 Key Manufacturers Automotive Ethernet Gateway Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Automotive Ethernet Gateway Product Location Distribution

3.4.2 Players Automotive Ethernet Gateway Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR AUTOMOTIVE ETHERNET GATEWAY BY GEOGRAPHIC REGION

4.1 World Historic Automotive Ethernet Gateway Market Size by Geographic Region (2020-2025)

4.1.1 Global Automotive Ethernet Gateway Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Automotive Ethernet Gateway Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Automotive Ethernet Gateway Market Size by Country/Region (2020-2025)

4.2.1 Global Automotive Ethernet Gateway Annual Sales by Country/Region (2020-2025)

4.2.2 Global Automotive Ethernet Gateway Annual Revenue by Country/Region (2020-2025)

4.3 Americas Automotive Ethernet Gateway Sales Growth

4.4 APAC Automotive Ethernet Gateway Sales Growth

4.5 Europe Automotive Ethernet Gateway Sales Growth

4.6 Middle East & Africa Automotive Ethernet Gateway Sales Growth

5 AMERICAS

5.1 Americas Automotive Ethernet Gateway Sales by Country

5.1.1 Americas Automotive Ethernet Gateway Sales by Country (2020-2025)

5.1.2 Americas Automotive Ethernet Gateway Revenue by Country (2020-2025)

5.2 Americas Automotive Ethernet Gateway Sales by Type (2020-2025)

5.3 Americas Automotive Ethernet Gateway Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Automotive Ethernet Gateway Sales by Region

6.1.1 APAC Automotive Ethernet Gateway Sales by Region (2020-2025)

6.1.2 APAC Automotive Ethernet Gateway Revenue by Region (2020-2025)

6.2 APAC Automotive Ethernet Gateway Sales by Type (2020-2025)

6.3 APAC Automotive Ethernet Gateway Sales by Application (2020-2025)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Automotive Ethernet Gateway by Country

7.1.1 Europe Automotive Ethernet Gateway Sales by Country (2020-2025)

7.1.2 Europe Automotive Ethernet Gateway Revenue by Country (2020-2025)

7.2 Europe Automotive Ethernet Gateway Sales by Type (2020-2025)

7.3 Europe Automotive Ethernet Gateway Sales by Application (2020-2025)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Automotive Ethernet Gateway by Country

8.1.1 Middle East & Africa Automotive Ethernet Gateway Sales by Country
(2020-2025)

8.1.2 Middle East & Africa Automotive Ethernet Gateway Revenue by Country
(2020-2025)

8.2 Middle East & Africa Automotive Ethernet Gateway Sales by Type (2020-2025)

8.3 Middle East & Africa Automotive Ethernet Gateway Sales by Application
(2020-2025)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Automotive Ethernet Gateway

10.3 Manufacturing Process Analysis of Automotive Ethernet Gateway

10.4 Industry Chain Structure of Automotive Ethernet Gateway

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Automotive Ethernet Gateway Distributors

11.3 Automotive Ethernet Gateway Customer

12 WORLD FORECAST REVIEW FOR AUTOMOTIVE ETHERNET GATEWAY BY GEOGRAPHIC REGION

- 12.1 Global Automotive Ethernet Gateway Market Size Forecast by Region
 - 12.1.1 Global Automotive Ethernet Gateway Forecast by Region (2026-2031)
 - 12.1.2 Global Automotive Ethernet Gateway Annual Revenue Forecast by Region (2026-2031)
- 12.2 Americas Forecast by Country (2026-2031)
- 12.3 APAC Forecast by Region (2026-2031)
- 12.4 Europe Forecast by Country (2026-2031)
- 12.5 Middle East & Africa Forecast by Country (2026-2031)
- 12.6 Global Automotive Ethernet Gateway Forecast by Type (2026-2031)
- 12.7 Global Automotive Ethernet Gateway Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

- 13.1 FEV Group
 - 13.1.1 FEV Group Company Information
 - 13.1.2 FEV Group Automotive Ethernet Gateway Product Portfolios and Specifications
 - 13.1.3 FEV Group Automotive Ethernet Gateway Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.1.4 FEV Group Main Business Overview
 - 13.1.5 FEV Group Latest Developments
- 13.2 Continental
 - 13.2.1 Continental Company Information
 - 13.2.2 Continental Automotive Ethernet Gateway Product Portfolios and Specifications
 - 13.2.3 Continental Automotive Ethernet Gateway Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.2.4 Continental Main Business Overview
 - 13.2.5 Continental Latest Developments
- 13.3 NXP Semiconductors
 - 13.3.1 NXP Semiconductors Company Information
 - 13.3.2 NXP Semiconductors Automotive Ethernet Gateway Product Portfolios and Specifications
 - 13.3.3 NXP Semiconductors Automotive Ethernet Gateway Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.3.4 NXP Semiconductors Main Business Overview
 - 13.3.5 NXP Semiconductors Latest Developments

13.4 DASAN Network

13.4.1 DASAN Network Company Information

13.4.2 DASAN Network Automotive Ethernet Gateway Product Portfolios and Specifications

13.4.3 DASAN Network Automotive Ethernet Gateway Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 DASAN Network Main Business Overview

13.4.5 DASAN Network Latest Developments

13.5 Bosch

13.5.1 Bosch Company Information

13.5.2 Bosch Automotive Ethernet Gateway Product Portfolios and Specifications

13.5.3 Bosch Automotive Ethernet Gateway Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 Bosch Main Business Overview

13.5.5 Bosch Latest Developments

13.6 Texas Instruments

13.6.1 Texas Instruments Company Information

13.6.2 Texas Instruments Automotive Ethernet Gateway Product Portfolios and Specifications

13.6.3 Texas Instruments Automotive Ethernet Gateway Sales, Revenue, Price and Gross Margin (2020-2025)

13.6.4 Texas Instruments Main Business Overview

13.6.5 Texas Instruments Latest Developments

13.7 Microchip Technology

13.7.1 Microchip Technology Company Information

13.7.2 Microchip Technology Automotive Ethernet Gateway Product Portfolios and Specifications

13.7.3 Microchip Technology Automotive Ethernet Gateway Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 Microchip Technology Main Business Overview

13.7.5 Microchip Technology Latest Developments

13.8 STMicroelectronics

13.8.1 STMicroelectronics Company Information

13.8.2 STMicroelectronics Automotive Ethernet Gateway Product Portfolios and Specifications

13.8.3 STMicroelectronics Automotive Ethernet Gateway Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 STMicroelectronics Main Business Overview

13.8.5 STMicroelectronics Latest Developments

13.9 Infineon Technologies

13.9.1 Infineon Technologies Company Information

13.9.2 Infineon Technologies Automotive Ethernet Gateway Product Portfolios and Specifications

13.9.3 Infineon Technologies Automotive Ethernet Gateway Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 Infineon Technologies Main Business Overview

13.9.5 Infineon Technologies Latest Developments

13.10 Intrepid Control Systems

13.10.1 Intrepid Control Systems Company Information

13.10.2 Intrepid Control Systems Automotive Ethernet Gateway Product Portfolios and Specifications

13.10.3 Intrepid Control Systems Automotive Ethernet Gateway Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 Intrepid Control Systems Main Business Overview

13.10.5 Intrepid Control Systems Latest Developments

13.11 Vector Informatik

13.11.1 Vector Informatik Company Information

13.11.2 Vector Informatik Automotive Ethernet Gateway Product Portfolios and Specifications

13.11.3 Vector Informatik Automotive Ethernet Gateway Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 Vector Informatik Main Business Overview

13.11.5 Vector Informatik Latest Developments

13.12 Molex

13.12.1 Molex Company Information

13.12.2 Molex Automotive Ethernet Gateway Product Portfolios and Specifications

13.12.3 Molex Automotive Ethernet Gateway Sales, Revenue, Price and Gross Margin (2020-2025)

13.12.4 Molex Main Business Overview

13.12.5 Molex Latest Developments

13.13 Tata ELXSI

13.13.1 Tata ELXSI Company Information

13.13.2 Tata ELXSI Automotive Ethernet Gateway Product Portfolios and Specifications

13.13.3 Tata ELXSI Automotive Ethernet Gateway Sales, Revenue, Price and Gross Margin (2020-2025)

13.13.4 Tata ELXSI Main Business Overview

13.13.5 Tata ELXSI Latest Developments

13.14 Technica Engineering

13.14.1 Technica Engineering Company Information

13.14.2 Technica Engineering Automotive Ethernet Gateway Product Portfolios and Specifications

13.14.3 Technica Engineering Automotive Ethernet Gateway Sales, Revenue, Price and Gross Margin (2020-2025)

13.14.4 Technica Engineering Main Business Overview

13.14.5 Technica Engineering Latest Developments

13.15 Jingwei Hirain Technologies

13.15.1 Jingwei Hirain Technologies Company Information

13.15.2 Jingwei Hirain Technologies Automotive Ethernet Gateway Product Portfolios and Specifications

13.15.3 Jingwei Hirain Technologies Automotive Ethernet Gateway Sales, Revenue, Price and Gross Margin (2020-2025)

13.15.4 Jingwei Hirain Technologies Main Business Overview

13.15.5 Jingwei Hirain Technologies Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Automotive Ethernet Gateway Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Automotive Ethernet Gateway Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Ethernet Port Only Type

Table 4. Major Players of Hybrid Type

Table 5. Global Automotive Ethernet Gateway Sales by Type (2020-2025) & (K Units)

Table 6. Global Automotive Ethernet Gateway Sales Market Share by Type (2020-2025)

Table 7. Global Automotive Ethernet Gateway Revenue by Type (2020-2025) & (\$ million)

Table 8. Global Automotive Ethernet Gateway Revenue Market Share by Type (2020-2025)

Table 9. Global Automotive Ethernet Gateway Sale Price by Type (2020-2025) & (USD/Unit)

Table 10. Global Automotive Ethernet Gateway Sale by Application (2020-2025) & (K Units)

Table 11. Global Automotive Ethernet Gateway Sale Market Share by Application (2020-2025)

Table 12. Global Automotive Ethernet Gateway Revenue by Application (2020-2025) & (\$ million)

Table 13. Global Automotive Ethernet Gateway Revenue Market Share by Application (2020-2025)

Table 14. Global Automotive Ethernet Gateway Sale Price by Application (2020-2025) & (USD/Unit)

Table 15. Global Automotive Ethernet Gateway Sales by Company (2020-2025) & (K Units)

Table 16. Global Automotive Ethernet Gateway Sales Market Share by Company (2020-2025)

Table 17. Global Automotive Ethernet Gateway Revenue by Company (2020-2025) & (\$ millions)

Table 18. Global Automotive Ethernet Gateway Revenue Market Share by Company (2020-2025)

Table 19. Global Automotive Ethernet Gateway Sale Price by Company (2020-2025) & (USD/Unit)

Table 20. Key Manufacturers Automotive Ethernet Gateway Producing Area Distribution

and Sales Area

Table 21. Players Automotive Ethernet Gateway Products Offered

Table 22. Automotive Ethernet Gateway Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global Automotive Ethernet Gateway Sales by Geographic Region (2020-2025) & (K Units)

Table 26. Global Automotive Ethernet Gateway Sales Market Share Geographic Region (2020-2025)

Table 27. Global Automotive Ethernet Gateway Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 28. Global Automotive Ethernet Gateway Revenue Market Share by Geographic Region (2020-2025)

Table 29. Global Automotive Ethernet Gateway Sales by Country/Region (2020-2025) & (K Units)

Table 30. Global Automotive Ethernet Gateway Sales Market Share by Country/Region (2020-2025)

Table 31. Global Automotive Ethernet Gateway Revenue by Country/Region (2020-2025) & (\$ millions)

Table 32. Global Automotive Ethernet Gateway Revenue Market Share by Country/Region (2020-2025)

Table 33. Americas Automotive Ethernet Gateway Sales by Country (2020-2025) & (K Units)

Table 34. Americas Automotive Ethernet Gateway Sales Market Share by Country (2020-2025)

Table 35. Americas Automotive Ethernet Gateway Revenue by Country (2020-2025) & (\$ millions)

Table 36. Americas Automotive Ethernet Gateway Sales by Type (2020-2025) & (K Units)

Table 37. Americas Automotive Ethernet Gateway Sales by Application (2020-2025) & (K Units)

Table 38. APAC Automotive Ethernet Gateway Sales by Region (2020-2025) & (K Units)

Table 39. APAC Automotive Ethernet Gateway Sales Market Share by Region (2020-2025)

Table 40. APAC Automotive Ethernet Gateway Revenue by Region (2020-2025) & (\$ millions)

Table 41. APAC Automotive Ethernet Gateway Sales by Type (2020-2025) & (K Units)

Table 42. APAC Automotive Ethernet Gateway Sales by Application (2020-2025) & (K Units)

Table 43. Europe Automotive Ethernet Gateway Sales by Country (2020-2025) & (K Units)

Table 44. Europe Automotive Ethernet Gateway Revenue by Country (2020-2025) & (\$ millions)

Table 45. Europe Automotive Ethernet Gateway Sales by Type (2020-2025) & (K Units)

Table 46. Europe Automotive Ethernet Gateway Sales by Application (2020-2025) & (K Units)

Table 47. Middle East & Africa Automotive Ethernet Gateway Sales by Country (2020-2025) & (K Units)

Table 48. Middle East & Africa Automotive Ethernet Gateway Revenue Market Share by Country (2020-2025)

Table 49. Middle East & Africa Automotive Ethernet Gateway Sales by Type (2020-2025) & (K Units)

Table 50. Middle East & Africa Automotive Ethernet Gateway Sales by Application (2020-2025) & (K Units)

Table 51. Key Market Drivers & Growth Opportunities of Automotive Ethernet Gateway

Table 52. Key Market Challenges & Risks of Automotive Ethernet Gateway

Table 53. Key Industry Trends of Automotive Ethernet Gateway

Table 54. Automotive Ethernet Gateway Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. Automotive Ethernet Gateway Distributors List

Table 57. Automotive Ethernet Gateway Customer List

Table 58. Global Automotive Ethernet Gateway Sales Forecast by Region (2026-2031) & (K Units)

Table 59. Global Automotive Ethernet Gateway Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 60. Americas Automotive Ethernet Gateway Sales Forecast by Country (2026-2031) & (K Units)

Table 61. Americas Automotive Ethernet Gateway Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 62. APAC Automotive Ethernet Gateway Sales Forecast by Region (2026-2031) & (K Units)

Table 63. APAC Automotive Ethernet Gateway Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 64. Europe Automotive Ethernet Gateway Sales Forecast by Country (2026-2031) & (K Units)

Table 65. Europe Automotive Ethernet Gateway Revenue Forecast by Country

(2026-2031) & (\$ millions)

Table 66. Middle East & Africa Automotive Ethernet Gateway Sales Forecast by Country (2026-2031) & (K Units)

Table 67. Middle East & Africa Automotive Ethernet Gateway Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 68. Global Automotive Ethernet Gateway Sales Forecast by Type (2026-2031) & (K Units)

Table 69. Global Automotive Ethernet Gateway Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 70. Global Automotive Ethernet Gateway Sales Forecast by Application (2026-2031) & (K Units)

Table 71. Global Automotive Ethernet Gateway Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 72. FEV Group Basic Information, Automotive Ethernet Gateway Manufacturing Base, Sales Area and Its Competitors

Table 73. FEV Group Automotive Ethernet Gateway Product Portfolios and Specifications

Table 74. FEV Group Automotive Ethernet Gateway Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 75. FEV Group Main Business

Table 76. FEV Group Latest Developments

Table 77. Continental Basic Information, Automotive Ethernet Gateway Manufacturing Base, Sales Area and Its Competitors

Table 78. Continental Automotive Ethernet Gateway Product Portfolios and Specifications

Table 79. Continental Automotive Ethernet Gateway Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 80. Continental Main Business

Table 81. Continental Latest Developments

Table 82. NXP Semiconductors Basic Information, Automotive Ethernet Gateway Manufacturing Base, Sales Area and Its Competitors

Table 83. NXP Semiconductors Automotive Ethernet Gateway Product Portfolios and Specifications

Table 84. NXP Semiconductors Automotive Ethernet Gateway Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 85. NXP Semiconductors Main Business

Table 86. NXP Semiconductors Latest Developments

Table 87. DASAN Network Basic Information, Automotive Ethernet Gateway Manufacturing Base, Sales Area and Its Competitors

Table 88. DASAN Network Automotive Ethernet Gateway Product Portfolios and Specifications

Table 89. DASAN Network Automotive Ethernet Gateway Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 90. DASAN Network Main Business

Table 91. DASAN Network Latest Developments

Table 92. Bosch Basic Information, Automotive Ethernet Gateway Manufacturing Base, Sales Area and Its Competitors

Table 93. Bosch Automotive Ethernet Gateway Product Portfolios and Specifications

Table 94. Bosch Automotive Ethernet Gateway Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 95. Bosch Main Business

Table 96. Bosch Latest Developments

Table 97. Texas Instruments Basic Information, Automotive Ethernet Gateway Manufacturing Base, Sales Area and Its Competitors

Table 98. Texas Instruments Automotive Ethernet Gateway Product Portfolios and Specifications

Table 99. Texas Instruments Automotive Ethernet Gateway Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 100. Texas Instruments Main Business

Table 101. Texas Instruments Latest Developments

Table 102. Microchip Technology Basic Information, Automotive Ethernet Gateway Manufacturing Base, Sales Area and Its Competitors

Table 103. Microchip Technology Automotive Ethernet Gateway Product Portfolios and Specifications

Table 104. Microchip Technology Automotive Ethernet Gateway Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 105. Microchip Technology Main Business

Table 106. Microchip Technology Latest Developments

Table 107. STMicroelectronics Basic Information, Automotive Ethernet Gateway Manufacturing Base, Sales Area and Its Competitors

Table 108. STMicroelectronics Automotive Ethernet Gateway Product Portfolios and Specifications

Table 109. STMicroelectronics Automotive Ethernet Gateway Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 110. STMicroelectronics Main Business

Table 111. STMicroelectronics Latest Developments

Table 112. Infineon Technologies Basic Information, Automotive Ethernet Gateway Manufacturing Base, Sales Area and Its Competitors

Table 113. Infineon Technologies Automotive Ethernet Gateway Product Portfolios and Specifications
Table 114. Infineon Technologies Automotive Ethernet Gateway Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 115. Infineon Technologies Main Business
Table 116. Infineon Technologies Latest Developments
Table 117. Intrepid Control Systems Basic Information, Automotive Ethernet Gateway Manufacturing Base, Sales Area and Its Competitors
Table 118. Intrepid Control Systems Automotive Ethernet Gateway Product Portfolios and Specifications
Table 119. Intrepid Control Systems Automotive Ethernet Gateway Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 120. Intrepid Control Systems Main Business
Table 121. Intrepid Control Systems Latest Developments
Table 122. Vector Informatik Basic Information, Automotive Ethernet Gateway Manufacturing Base, Sales Area and Its Competitors
Table 123. Vector Informatik Automotive Ethernet Gateway Product Portfolios and Specifications
Table 124. Vector Informatik Automotive Ethernet Gateway Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 125. Vector Informatik Main Business
Table 126. Vector Informatik Latest Developments
Table 127. Molex Basic Information, Automotive Ethernet Gateway Manufacturing Base, Sales Area and Its Competitors
Table 128. Molex Automotive Ethernet Gateway Product Portfolios and Specifications
Table 129. Molex Automotive Ethernet Gateway Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 130. Molex Main Business
Table 131. Molex Latest Developments
Table 132. Tata ELXSI Basic Information, Automotive Ethernet Gateway Manufacturing Base, Sales Area and Its Competitors
Table 133. Tata ELXSI Automotive Ethernet Gateway Product Portfolios and Specifications
Table 134. Tata ELXSI Automotive Ethernet Gateway Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 135. Tata ELXSI Main Business
Table 136. Tata ELXSI Latest Developments
Table 137. Technica Engineering Basic Information, Automotive Ethernet Gateway Manufacturing Base, Sales Area and Its Competitors

Table 138. Technica Engineering Automotive Ethernet Gateway Product Portfolios and Specifications

Table 139. Technica Engineering Automotive Ethernet Gateway Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 140. Technica Engineering Main Business

Table 141. Technica Engineering Latest Developments

Table 142. Jingwei Hirain Technologies Basic Information, Automotive Ethernet Gateway Manufacturing Base, Sales Area and Its Competitors

Table 143. Jingwei Hirain Technologies Automotive Ethernet Gateway Product Portfolios and Specifications

Table 144. Jingwei Hirain Technologies Automotive Ethernet Gateway Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 145. Jingwei Hirain Technologies Main Business

Table 146. Jingwei Hirain Technologies Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Automotive Ethernet Gateway
- Figure 2. Automotive Ethernet Gateway Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Automotive Ethernet Gateway Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global Automotive Ethernet Gateway Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Automotive Ethernet Gateway Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Automotive Ethernet Gateway Sales Market Share by Country/Region (2024)
- Figure 10. Automotive Ethernet Gateway Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Ethernet Port Only Type
- Figure 12. Product Picture of Hybrid Type
- Figure 13. Global Automotive Ethernet Gateway Sales Market Share by Type in 2025
- Figure 14. Global Automotive Ethernet Gateway Revenue Market Share by Type (2020-2025)
- Figure 15. Automotive Ethernet Gateway Consumed in Passenger Car
- Figure 16. Global Automotive Ethernet Gateway Market: Passenger Car (2020-2025) & (K Units)
- Figure 17. Automotive Ethernet Gateway Consumed in Commercial Vehicle
- Figure 18. Global Automotive Ethernet Gateway Market: Commercial Vehicle (2020-2025) & (K Units)
- Figure 19. Global Automotive Ethernet Gateway Sale Market Share by Application (2024)
- Figure 20. Global Automotive Ethernet Gateway Revenue Market Share by Application in 2025
- Figure 21. Automotive Ethernet Gateway Sales by Company in 2025 (K Units)
- Figure 22. Global Automotive Ethernet Gateway Sales Market Share by Company in 2025
- Figure 23. Automotive Ethernet Gateway Revenue by Company in 2025 (\$ millions)
- Figure 24. Global Automotive Ethernet Gateway Revenue Market Share by Company in 2025
- Figure 25. Global Automotive Ethernet Gateway Sales Market Share by Geographic

Region (2020-2025)

Figure 26. Global Automotive Ethernet Gateway Revenue Market Share by Geographic Region in 2025

Figure 27. Americas Automotive Ethernet Gateway Sales 2020-2025 (K Units)

Figure 28. Americas Automotive Ethernet Gateway Revenue 2020-2025 (\$ millions)

Figure 29. APAC Automotive Ethernet Gateway Sales 2020-2025 (K Units)

Figure 30. APAC Automotive Ethernet Gateway Revenue 2020-2025 (\$ millions)

Figure 31. Europe Automotive Ethernet Gateway Sales 2020-2025 (K Units)

Figure 32. Europe Automotive Ethernet Gateway Revenue 2020-2025 (\$ millions)

Figure 33. Middle East & Africa Automotive Ethernet Gateway Sales 2020-2025 (K Units)

Figure 34. Middle East & Africa Automotive Ethernet Gateway Revenue 2020-2025 (\$ millions)

Figure 35. Americas Automotive Ethernet Gateway Sales Market Share by Country in 2025

Figure 36. Americas Automotive Ethernet Gateway Revenue Market Share by Country (2020-2025)

Figure 37. Americas Automotive Ethernet Gateway Sales Market Share by Type (2020-2025)

Figure 38. Americas Automotive Ethernet Gateway Sales Market Share by Application (2020-2025)

Figure 39. United States Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 40. Canada Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 41. Mexico Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 42. Brazil Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 43. APAC Automotive Ethernet Gateway Sales Market Share by Region in 2025

Figure 44. APAC Automotive Ethernet Gateway Revenue Market Share by Region (2020-2025)

Figure 45. APAC Automotive Ethernet Gateway Sales Market Share by Type (2020-2025)

Figure 46. APAC Automotive Ethernet Gateway Sales Market Share by Application (2020-2025)

Figure 47. China Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 48. Japan Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 49. South Korea Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$

millions)

Figure 50. Southeast Asia Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 51. India Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 52. Australia Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 53. China Taiwan Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 54. Europe Automotive Ethernet Gateway Sales Market Share by Country in 2025

Figure 55. Europe Automotive Ethernet Gateway Revenue Market Share by Country (2020-2025)

Figure 56. Europe Automotive Ethernet Gateway Sales Market Share by Type (2020-2025)

Figure 57. Europe Automotive Ethernet Gateway Sales Market Share by Application (2020-2025)

Figure 58. Germany Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 59. France Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 60. UK Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 61. Italy Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 62. Russia Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 63. Middle East & Africa Automotive Ethernet Gateway Sales Market Share by Country (2020-2025)

Figure 64. Middle East & Africa Automotive Ethernet Gateway Sales Market Share by Type (2020-2025)

Figure 65. Middle East & Africa Automotive Ethernet Gateway Sales Market Share by Application (2020-2025)

Figure 66. Egypt Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 67. South Africa Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 68. Israel Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 69. Turkey Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 70. GCC Countries Automotive Ethernet Gateway Revenue Growth 2020-2025 (\$ millions)

Figure 71. Manufacturing Cost Structure Analysis of Automotive Ethernet Gateway in

2025

Figure 72. Manufacturing Process Analysis of Automotive Ethernet Gateway

Figure 73. Industry Chain Structure of Automotive Ethernet Gateway

Figure 74. Channels of Distribution

Figure 75. Global Automotive Ethernet Gateway Sales Market Forecast by Region (2026-2031)

Figure 76. Global Automotive Ethernet Gateway Revenue Market Share Forecast by Region (2026-2031)

Figure 77. Global Automotive Ethernet Gateway Sales Market Share Forecast by Type (2026-2031)

Figure 78. Global Automotive Ethernet Gateway Revenue Market Share Forecast by Type (2026-2031)

Figure 79. Global Automotive Ethernet Gateway Sales Market Share Forecast by Application (2026-2031)

Figure 80. Global Automotive Ethernet Gateway Revenue Market Share Forecast by Application (2026-2031)

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