

Global Automotive Grade CMOS Radar Transceiver Market Growth 2026-2032

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Abstracts

The global Automotive Grade CMOS Radar Transceiver market size is predicted to grow from US\$ 235 million in 2025 to US\$ 670 million in 2032; it is expected to grow at a CAGR of 16.1% from 2026 to 2032.

Automotive Grade CMOS Radar Transceiver is a highly integrated millimeter-wave device designed for angle radar and forward radar, built on CMOS technology to deliver stable RF performance, low power consumption, and high reliability required by advanced automotive sensing systems with strict demands on detection accuracy and system cost. In 2025, production was approximately 16 million units and the average price was USD 15 per unit. The industry's capacity utilization rate in 2025 was about 52% and the average gross margin was around 56%. Upstream, the most critical inputs include silicon wafers, photoresists, lithography machines, and etching tools, with representative suppliers such as ASML, Tokyo Electron, and Applied Materials providing essential semiconductor materials and equipment. The midstream segment includes system architecture design, analog front-end development, RF and baseband integration, digital signal processing, mixed-signal verification, and tape-out management, which collectively determine the integration level and signal performance of the transceiver. Downstream, Automotive Grade CMOS Radar Transceiver is used by angle radar and forward radar manufacturers such as Bosch, Continental, Aptiv, Valeo, Denso, ZF, and Huawei.

United States market for Automotive Grade CMOS Radar Transceiver is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Automotive Grade CMOS Radar Transceiver is estimated to increase

from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Automotive Grade CMOS Radar Transceiver is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Automotive Grade CMOS Radar Transceiver players cover NXP Semiconductors, Texas Instruments, Infineon Technologies, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Automotive Grade CMOS Radar Transceiver Industry Forecast" looks at past sales and reviews total world Automotive Grade CMOS Radar Transceiver sales in 2025, providing a comprehensive analysis by region and market sector of projected Automotive Grade CMOS Radar Transceiver sales for 2026 through 2032. With Automotive Grade CMOS Radar Transceiver sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive Grade CMOS Radar Transceiver industry.

This Insight Report provides a comprehensive analysis of the global Automotive Grade CMOS Radar Transceiver landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive Grade CMOS Radar Transceiver portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Grade CMOS Radar Transceiver market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Grade CMOS Radar Transceiver and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive Grade CMOS Radar Transceiver.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Grade CMOS Radar Transceiver market by product type,

application, key manufacturers and key regions and countries.

Segmentation by Type:

3Tx/4Rx

2Tx/3Rx

Others

Segmentation by Package:

FOWLP

FCBGA

Others

Segmentation by Process Node:

28nm

45nm

Others

Segmentation by Application:

Corner Radar

Front Radar

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

NXP Semiconductors

Texas Instruments

Infineon Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Grade CMOS Radar Transceiver market?

What factors are driving Automotive Grade CMOS Radar Transceiver market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive Grade CMOS Radar Transceiver market opportunities vary by end market size?

How does Automotive Grade CMOS Radar Transceiver break out by Type, by Application?

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 Grade CMOS Radar Transceiver Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Automotive Grade CMOS Radar Transceiver by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Automotive Grade CMOS Radar Transceiver by Country/Region, 2021, 2025 & 2032

2.2 Automotive Grade CMOS Radar Transceiver Segment by Type

- 2.2.1 3Tx/4Rx
- 2.2.2 2Tx/3Rx
- 2.2.3 Others
- 2.2.4 Automotive Grade CMOS Radar Transceiver Sales by Type
 - 2.2.4.1 Global Automotive Grade CMOS Radar Transceiver Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Automotive Grade CMOS Radar Transceiver Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Automotive Grade CMOS Radar Transceiver Sale Price by Type (2021-2026)

2.3 Automotive Grade CMOS Radar Transceiver Segment by Package

- 2.3.1 FOWLP
- 2.3.2 FCBGA
- 2.3.3 Others
- 2.3.4 Automotive Grade CMOS Radar Transceiver Sales by Package
 - 2.3.4.1 Global Automotive Grade CMOS Radar Transceiver Sales Market Share by Package (2021-2026)

2.3.4.2 Global Automotive Grade CMOS Radar Transceiver Revenue and Market Share by Package (2021-2026)

2.3.4.3 Global Automotive Grade CMOS Radar Transceiver Sale Price by Package (2021-2026)

2.4 Automotive Grade CMOS Radar Transceiver Segment by Process Node

2.4.1 28nm

2.4.2 45nm

2.4.3 Others

2.4.4 Automotive Grade CMOS Radar Transceiver Sales by Process Node

2.4.4.1 Global Automotive Grade CMOS Radar Transceiver Sales Market Share by Process Node (2021-2026)

2.4.4.2 Global Automotive Grade CMOS Radar Transceiver Revenue and Market Share by Process Node (2021-2026)

2.4.4.3 Global Automotive Grade CMOS Radar Transceiver Sale Price by Process Node (2021-2026)

2.5 Automotive Grade CMOS Radar Transceiver Segment by Application

2.5.1 Corner Radar

2.5.2 Front Radar

2.5.3 Others

2.5.4 Automotive Grade CMOS Radar Transceiver Sales by Application

2.5.4.1 Global Automotive Grade CMOS Radar Transceiver Sale Market Share by Application (2021-2026)

2.5.4.2 Global Automotive Grade CMOS Radar Transceiver Revenue and Market Share by Application (2021-2026)

2.5.4.3 Global Automotive Grade CMOS Radar Transceiver Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Automotive Grade CMOS Radar Transceiver Breakdown Data by Company

3.1.1 Global Automotive Grade CMOS Radar Transceiver Annual Sales by Company (2021-2026)

3.1.2 Global Automotive Grade CMOS Radar Transceiver Sales Market Share by Company (2021-2026)

3.2 Global Automotive Grade CMOS Radar Transceiver Annual Revenue by Company (2021-2026)

3.2.1 Global Automotive Grade CMOS Radar Transceiver Revenue by Company (2021-2026)

3.2.2 Global Automotive Grade CMOS Radar Transceiver Revenue Market Share by

Company (2021-2026)

3.3 Global Automotive Grade CMOS Radar Transceiver Sale Price by Company

3.4 Key Manufacturers Automotive Grade CMOS Radar Transceiver Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Automotive Grade CMOS Radar Transceiver Product Location Distribution

3.4.2 Players Automotive Grade CMOS Radar Transceiver Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR AUTOMOTIVE GRADE CMOS RADAR TRANSCEIVER BY GEOGRAPHIC REGION

4.1 World Historic Automotive Grade CMOS Radar Transceiver Market Size by Geographic Region (2021-2026)

4.1.1 Global Automotive Grade CMOS Radar Transceiver Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Automotive Grade CMOS Radar Transceiver Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Automotive Grade CMOS Radar Transceiver Market Size by Country/Region (2021-2026)

4.2.1 Global Automotive Grade CMOS Radar Transceiver Annual Sales by Country/Region (2021-2026)

4.2.2 Global Automotive Grade CMOS Radar Transceiver Annual Revenue by Country/Region (2021-2026)

4.3 Americas Automotive Grade CMOS Radar Transceiver Sales Growth

4.4 APAC Automotive Grade CMOS Radar Transceiver Sales Growth

4.5 Europe Automotive Grade CMOS Radar Transceiver Sales Growth

4.6 Middle East & Africa Automotive Grade CMOS Radar Transceiver Sales Growth

5 AMERICAS

5.1 Americas Automotive Grade CMOS Radar Transceiver Sales by Country

5.1.1 Americas Automotive Grade CMOS Radar Transceiver Sales by Country (2021-2026)

5.1.2 Americas Automotive Grade CMOS Radar Transceiver Revenue by Country

(2021-2026)

5.2 Americas Automotive Grade CMOS Radar Transceiver Sales by Type (2021-2026)

5.3 Americas Automotive Grade CMOS Radar Transceiver Sales by Application
(2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Automotive Grade CMOS Radar Transceiver Sales by Region

6.1.1 APAC Automotive Grade CMOS Radar Transceiver Sales by Region
(2021-2026)

6.1.2 APAC Automotive Grade CMOS Radar Transceiver Revenue by Region
(2021-2026)

6.2 APAC Automotive Grade CMOS Radar Transceiver Sales by Type (2021-2026)

6.3 APAC Automotive Grade CMOS Radar Transceiver Sales by Application
(2021-2026)

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 Grade CMOS Radar Transceiver by Country

7.1.1 Europe Automotive Grade CMOS Radar Transceiver Sales by Country
(2021-2026)

7.1.2 Europe Automotive Grade CMOS Radar Transceiver Revenue by Country
(2021-2026)

7.2 Europe Automotive Grade CMOS Radar Transceiver Sales by Type (2021-2026)

7.3 Europe Automotive Grade CMOS Radar Transceiver Sales by Application
(2021-2026)

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 Grade CMOS Radar Transceiver by Country
 - 8.1.1 Middle East & Africa Automotive Grade CMOS Radar Transceiver Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Automotive Grade CMOS Radar Transceiver Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Automotive Grade CMOS Radar Transceiver Sales by Type (2021-2026)
- 8.3 Middle East & Africa Automotive Grade CMOS Radar Transceiver Sales by Application (2021-2026)
- 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 Grade CMOS Radar Transceiver
- 10.3 Manufacturing Process Analysis of Automotive Grade CMOS Radar Transceiver
- 10.4 Industry Chain Structure of Automotive Grade CMOS Radar Transceiver

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels

- 11.1.2 Indirect Channels
- 11.2 Automotive Grade CMOS Radar Transceiver Distributors
- 11.3 Automotive Grade CMOS Radar Transceiver Customer

12 WORLD FORECAST REVIEW FOR AUTOMOTIVE GRADE CMOS RADAR TRANSCEIVER BY GEOGRAPHIC REGION

- 12.1 Global Automotive Grade CMOS Radar Transceiver Market Size Forecast by Region
 - 12.1.1 Global Automotive Grade CMOS Radar Transceiver Forecast by Region (2027-2032)
 - 12.1.2 Global Automotive Grade CMOS Radar Transceiver Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Automotive Grade CMOS Radar Transceiver Forecast by Type (2027-2032)
- 12.7 Global Automotive Grade CMOS Radar Transceiver Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 NXP Semiconductors
 - 13.1.1 NXP Semiconductors Company Information
 - 13.1.2 NXP Semiconductors Automotive Grade CMOS Radar Transceiver Product Portfolios and Specifications
 - 13.1.3 NXP Semiconductors Automotive Grade CMOS Radar Transceiver Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 NXP Semiconductors Main Business Overview
 - 13.1.5 NXP Semiconductors Latest Developments
- 13.2 Texas Instruments
 - 13.2.1 Texas Instruments Company Information
 - 13.2.2 Texas Instruments Automotive Grade CMOS Radar Transceiver Product Portfolios and Specifications
 - 13.2.3 Texas Instruments Automotive Grade CMOS Radar Transceiver Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Texas Instruments Main Business Overview
 - 13.2.5 Texas Instruments Latest Developments

13.3 Infineon Technologies

13.3.1 Infineon Technologies Company Information

13.3.2 Infineon Technologies Automotive Grade CMOS Radar Transceiver Product Portfolios and Specifications

13.3.3 Infineon Technologies Automotive Grade CMOS Radar Transceiver Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Infineon Technologies Main Business Overview

13.3.5 Infineon Technologies Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Automotive Grade CMOS Radar Transceiver Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Automotive Grade CMOS Radar Transceiver Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of 3Tx/4Rx
- Table 4. Major Players of 2Tx/3Rx
- Table 5. Major Players of Others
- Table 6. Global Automotive Grade CMOS Radar Transceiver Sales by Type (2021-2026) & (Million Units)
- Table 7. Global Automotive Grade CMOS Radar Transceiver Sales Market Share by Type (2021-2026)
- Table 8. Global Automotive Grade CMOS Radar Transceiver Revenue by Type (2021-2026) & (\$ million)
- Table 9. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share by Type (2021-2026)
- Table 10. Global Automotive Grade CMOS Radar Transceiver Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 11. Major Players of FOWLP
- Table 12. Major Players of FCBGA
- Table 13. Major Players of Others
- Table 14. Global Automotive Grade CMOS Radar Transceiver Sales by Package (2021-2026) & (Million Units)
- Table 15. Global Automotive Grade CMOS Radar Transceiver Sales Market Share by Package (2021-2026)
- Table 16. Global Automotive Grade CMOS Radar Transceiver Revenue by Package (2021-2026) & (\$ million)
- Table 17. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share by Package (2021-2026)
- Table 18. Global Automotive Grade CMOS Radar Transceiver Sale Price by Package (2021-2026) & (US\$/Unit)
- Table 19. Major Players of 28nm
- Table 20. Major Players of 45nm
- Table 21. Major Players of Others
- Table 22. Global Automotive Grade CMOS Radar Transceiver Sales by Process Node (2021-2026) & (Million Units)

Table 23. Global Automotive Grade CMOS Radar Transceiver Sales Market Share by Process Node (2021-2026)

Table 24. Global Automotive Grade CMOS Radar Transceiver Revenue by Process Node (2021-2026) & (\$ million)

Table 25. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share by Process Node (2021-2026)

Table 26. Global Automotive Grade CMOS Radar Transceiver Sale Price by Process Node (2021-2026) & (US\$/Unit)

Table 27. Global Automotive Grade CMOS Radar Transceiver Sale by Application (2021-2026) & (Million Units)

Table 28. Global Automotive Grade CMOS Radar Transceiver Sale Market Share by Application (2021-2026)

Table 29. Global Automotive Grade CMOS Radar Transceiver Revenue by Application (2021-2026) & (\$ million)

Table 30. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share by Application (2021-2026)

Table 31. Global Automotive Grade CMOS Radar Transceiver Sale Price by Application (2021-2026) & (US\$/Unit)

Table 32. Global Automotive Grade CMOS Radar Transceiver Sales by Company (2021-2026) & (Million Units)

Table 33. Global Automotive Grade CMOS Radar Transceiver Sales Market Share by Company (2021-2026)

Table 34. Global Automotive Grade CMOS Radar Transceiver Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share by Company (2021-2026)

Table 36. Global Automotive Grade CMOS Radar Transceiver Sale Price by Company (2021-2026) & (US\$/Unit)

Table 37. Key Manufacturers Automotive Grade CMOS Radar Transceiver Producing Area Distribution and Sales Area

Table 38. Players Automotive Grade CMOS Radar Transceiver Products Offered

Table 39. Automotive Grade CMOS Radar Transceiver Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 40. New Products and Potential Entrants

Table 41. Market M&A Activity & Strategy

Table 42. Global Automotive Grade CMOS Radar Transceiver Sales by Geographic Region (2021-2026) & (Million Units)

Table 43. Global Automotive Grade CMOS Radar Transceiver Sales Market Share Geographic Region (2021-2026)

Table 44. Global Automotive Grade CMOS Radar Transceiver Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global Automotive Grade CMOS Radar Transceiver Sales by Country/Region (2021-2026) & (Million Units)

Table 47. Global Automotive Grade CMOS Radar Transceiver Sales Market Share by Country/Region (2021-2026)

Table 48. Global Automotive Grade CMOS Radar Transceiver Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas Automotive Grade CMOS Radar Transceiver Sales by Country (2021-2026) & (Million Units)

Table 51. Americas Automotive Grade CMOS Radar Transceiver Sales Market Share by Country (2021-2026)

Table 52. Americas Automotive Grade CMOS Radar Transceiver Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas Automotive Grade CMOS Radar Transceiver Sales by Type (2021-2026) & (Million Units)

Table 54. Americas Automotive Grade CMOS Radar Transceiver Sales by Application (2021-2026) & (Million Units)

Table 55. APAC Automotive Grade CMOS Radar Transceiver Sales by Region (2021-2026) & (Million Units)

Table 56. APAC Automotive Grade CMOS Radar Transceiver Sales Market Share by Region (2021-2026)

Table 57. APAC Automotive Grade CMOS Radar Transceiver Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Automotive Grade CMOS Radar Transceiver Sales by Type (2021-2026) & (Million Units)

Table 59. APAC Automotive Grade CMOS Radar Transceiver Sales by Application (2021-2026) & (Million Units)

Table 60. Europe Automotive Grade CMOS Radar Transceiver Sales by Country (2021-2026) & (Million Units)

Table 61. Europe Automotive Grade CMOS Radar Transceiver Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Automotive Grade CMOS Radar Transceiver Sales by Type (2021-2026) & (Million Units)

Table 63. Europe Automotive Grade CMOS Radar Transceiver Sales by Application

(2021-2026) & (Million Units)

Table 64. Middle East & Africa Automotive Grade CMOS Radar Transceiver Sales by Country (2021-2026) & (Million Units)

Table 65. Middle East & Africa Automotive Grade CMOS Radar Transceiver Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa Automotive Grade CMOS Radar Transceiver Sales by Type (2021-2026) & (Million Units)

Table 67. Middle East & Africa Automotive Grade CMOS Radar Transceiver Sales by Application (2021-2026) & (Million Units)

Table 68. Key Market Drivers & Growth Opportunities of Automotive Grade CMOS Radar Transceiver

Table 69. Key Market Challenges & Risks of Automotive Grade CMOS Radar Transceiver

Table 70. Key Industry Trends of Automotive Grade CMOS Radar Transceiver

Table 71. Automotive Grade CMOS Radar Transceiver Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. Automotive Grade CMOS Radar Transceiver Distributors List

Table 74. Automotive Grade CMOS Radar Transceiver Customer List

Table 75. Global Automotive Grade CMOS Radar Transceiver Sales Forecast by Region (2027-2032) & (Million Units)

Table 76. Global Automotive Grade CMOS Radar Transceiver Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 77. Americas Automotive Grade CMOS Radar Transceiver Sales Forecast by Country (2027-2032) & (Million Units)

Table 78. Americas Automotive Grade CMOS Radar Transceiver Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. APAC Automotive Grade CMOS Radar Transceiver Sales Forecast by Region (2027-2032) & (Million Units)

Table 80. APAC Automotive Grade CMOS Radar Transceiver Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe Automotive Grade CMOS Radar Transceiver Sales Forecast by Country (2027-2032) & (Million Units)

Table 82. Europe Automotive Grade CMOS Radar Transceiver Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa Automotive Grade CMOS Radar Transceiver Sales Forecast by Country (2027-2032) & (Million Units)

Table 84. Middle East & Africa Automotive Grade CMOS Radar Transceiver Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global Automotive Grade CMOS Radar Transceiver Sales Forecast by Type

(2027-2032) & (Million Units)

Table 86. Global Automotive Grade CMOS Radar Transceiver Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 87. Global Automotive Grade CMOS Radar Transceiver Sales Forecast by Application (2027-2032) & (Million Units)

Table 88. Global Automotive Grade CMOS Radar Transceiver Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. NXP Semiconductors Basic Information, Automotive Grade CMOS Radar Transceiver Manufacturing Base, Sales Area and Its Competitors

Table 90. NXP Semiconductors Automotive Grade CMOS Radar Transceiver Product Portfolios and Specifications

Table 91. NXP Semiconductors Automotive Grade CMOS Radar Transceiver Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. NXP Semiconductors Main Business

Table 93. NXP Semiconductors Latest Developments

Table 94. Texas Instruments Basic Information, Automotive Grade CMOS Radar Transceiver Manufacturing Base, Sales Area and Its Competitors

Table 95. Texas Instruments Automotive Grade CMOS Radar Transceiver Product Portfolios and Specifications

Table 96. Texas Instruments Automotive Grade CMOS Radar Transceiver Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. Texas Instruments Main Business

Table 98. Texas Instruments Latest Developments

Table 99. Infineon Technologies Basic Information, Automotive Grade CMOS Radar Transceiver Manufacturing Base, Sales Area and Its Competitors

Table 100. Infineon Technologies Automotive Grade CMOS Radar Transceiver Product Portfolios and Specifications

Table 101. Infineon Technologies Automotive Grade CMOS Radar Transceiver Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. Infineon Technologies Main Business

Table 103. Infineon Technologies Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Automotive Grade CMOS Radar Transceiver
- Figure 2. Automotive Grade CMOS Radar Transceiver Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Automotive Grade CMOS Radar Transceiver Sales Growth Rate 2021-2032 (Million Units)
- Figure 7. Global Automotive Grade CMOS Radar Transceiver Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Automotive Grade CMOS Radar Transceiver Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Automotive Grade CMOS Radar Transceiver Sales Market Share by Country/Region (2025)
- Figure 10. Automotive Grade CMOS Radar Transceiver Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 3Tx/4Rx
- Figure 12. Product Picture of 2Tx/3Rx
- Figure 13. Product Picture of Others
- Figure 14. Global Automotive Grade CMOS Radar Transceiver Sales Market Share by Type in 2026
- Figure 15. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of FOWLP
- Figure 17. Product Picture of FCBGA
- Figure 18. Product Picture of Others
- Figure 19. Global Automotive Grade CMOS Radar Transceiver Sales Market Share by Package in 2026
- Figure 20. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share by Package (2021-2026)
- Figure 21. Product Picture of 28nm
- Figure 22. Product Picture of 45nm
- Figure 23. Product Picture of Others
- Figure 24. Global Automotive Grade CMOS Radar Transceiver Sales Market Share by Process Node in 2026
- Figure 25. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share

by Process Node (2021-2026)

Figure 26. Automotive Grade CMOS Radar Transceiver Consumed in Corner Radar

Figure 27. Global Automotive Grade CMOS Radar Transceiver Market: Corner Radar (2021-2026) & (Million Units)

Figure 28. Automotive Grade CMOS Radar Transceiver Consumed in Front Radar

Figure 29. Global Automotive Grade CMOS Radar Transceiver Market: Front Radar (2021-2026) & (Million Units)

Figure 30. Automotive Grade CMOS Radar Transceiver Consumed in Others

Figure 31. Global Automotive Grade CMOS Radar Transceiver Market: Others (2021-2026) & (Million Units)

Figure 32. Global Automotive Grade CMOS Radar Transceiver Sale Market Share by Application (2025)

Figure 33. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share by Application in 2026

Figure 34. Automotive Grade CMOS Radar Transceiver Sales by Company in 2026 (Million Units)

Figure 35. Global Automotive Grade CMOS Radar Transceiver Sales Market Share by Company in 2026

Figure 36. Automotive Grade CMOS Radar Transceiver Revenue by Company in 2026 (\$ millions)

Figure 37. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share by Company in 2026

Figure 38. Global Automotive Grade CMOS Radar Transceiver Sales Market Share by Geographic Region (2021-2026)

Figure 39. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share by Geographic Region in 2026

Figure 40. Americas Automotive Grade CMOS Radar Transceiver Sales 2021-2026 (Million Units)

Figure 41. Americas Automotive Grade CMOS Radar Transceiver Revenue 2021-2026 (\$ millions)

Figure 42. APAC Automotive Grade CMOS Radar Transceiver Sales 2021-2026 (Million Units)

Figure 43. APAC Automotive Grade CMOS Radar Transceiver Revenue 2021-2026 (\$ millions)

Figure 44. Europe Automotive Grade CMOS Radar Transceiver Sales 2021-2026 (Million Units)

Figure 45. Europe Automotive Grade CMOS Radar Transceiver Revenue 2021-2026 (\$ millions)

Figure 46. Middle East & Africa Automotive Grade CMOS Radar Transceiver Sales

2021-2026 (Million Units)

Figure 47. Middle East & Africa Automotive Grade CMOS Radar Transceiver Revenue 2021-2026 (\$ millions)

Figure 48. Americas Automotive Grade CMOS Radar Transceiver Sales Market Share by Country in 2026

Figure 49. Americas Automotive Grade CMOS Radar Transceiver Revenue Market Share by Country (2021-2026)

Figure 50. Americas Automotive Grade CMOS Radar Transceiver Sales Market Share by Type (2021-2026)

Figure 51. Americas Automotive Grade CMOS Radar Transceiver Sales Market Share by Application (2021-2026)

Figure 52. United States Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 53. Canada Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 54. Mexico Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 55. Brazil Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 56. APAC Automotive Grade CMOS Radar Transceiver Sales Market Share by Region in 2026

Figure 57. APAC Automotive Grade CMOS Radar Transceiver Revenue Market Share by Region (2021-2026)

Figure 58. APAC Automotive Grade CMOS Radar Transceiver Sales Market Share by Type (2021-2026)

Figure 59. APAC Automotive Grade CMOS Radar Transceiver Sales Market Share by Application (2021-2026)

Figure 60. China Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 61. Japan Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 62. South Korea Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 63. Southeast Asia Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 64. India Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 65. Australia Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 66. China Taiwan Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 67. Europe Automotive Grade CMOS Radar Transceiver Sales Market Share by Country in 2026

Figure 68. Europe Automotive Grade CMOS Radar Transceiver Revenue Market Share by Country (2021-2026)

Figure 69. Europe Automotive Grade CMOS Radar Transceiver Sales Market Share by Type (2021-2026)

Figure 70. Europe Automotive Grade CMOS Radar Transceiver Sales Market Share by Application (2021-2026)

Figure 71. Germany Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 72. France Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 73. UK Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa Automotive Grade CMOS Radar Transceiver Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa Automotive Grade CMOS Radar Transceiver Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa Automotive Grade CMOS Radar Transceiver Sales Market Share by Application (2021-2026)

Figure 79. Egypt Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 81. Israel Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries Automotive Grade CMOS Radar Transceiver Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of Automotive Grade CMOS Radar Transceiver in 2026

Figure 85. Manufacturing Process Analysis of Automotive Grade CMOS Radar

Transceiver

Figure 86. Industry Chain Structure of Automotive Grade CMOS Radar Transceiver

Figure 87. Channels of Distribution

Figure 88. Global Automotive Grade CMOS Radar Transceiver Sales Market Forecast by Region (2027-2032)

Figure 89. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global Automotive Grade CMOS Radar Transceiver Sales Market Share Forecast by Type (2027-2032)

Figure 91. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share Forecast by Type (2027-2032)

Figure 92. Global Automotive Grade CMOS Radar Transceiver Sales Market Share Forecast by Application (2027-2032)

Figure 93. Global Automotive Grade CMOS Radar Transceiver Revenue Market Share Forecast by Application (2027-2032)

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