

Global Automotive Radar SoC Market Growth 2026-2032

<https://marketpublishers.com/r/A84B38B5043FEN.html>

Date: January 2026

Pages: 94

Price: US\$ 3,660.00 (Single User License)

ID: A84B38B5043FEN

Abstracts

The global Automotive Radar SoC market size is predicted to grow from US\$ 411 million in 2025 to US\$ 1555 million in 2032; it is expected to grow at a CAGR of 21.1% from 2026 to 2032.

Automotive Radar SoC is a highly integrated radar system-on-chip that incorporates RF front-end circuits, digital signal processing, and microcontroller functions on a single CMOS die, delivering compact architecture, low power consumption, and stable signal performance required for high-resolution angle radar and forward radar in automotive sensing. In 2025, production was approximately 9.33 million units and the average price was USD 45 per unit. The industry's capacity utilization rate in 2025 was about 60% and the average gross margin was around 55%. 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 equipment and materials. The midstream segment includes system architecture design, RF front-end and baseband integration, digital signal processing, mixed-signal verification, and SoC-level functional integration, which collectively determine computational capability, radar performance, and overall integration level. Downstream, Automotive Radar SoC is used by angle radar and forward radar manufacturers such as Bosch, Continental, Aptiv, Valeo, Denso, ZF, and Huawei.

In the process of the evolution of automobiles to a higher level of intelligence, traditional millimeter-wave radars can no longer meet the needs. Its perception information only contains distance and orientation, lacking height parameters, and cannot form high-density point cloud imaging, which makes it difficult to identify road targets. Although lidar with high-density point cloud imaging capability can solve the pain points of

traditional millimeter-wave radar, the cost of lidar on the car is high, and there are natural defects that cannot work around the clock. Therefore, 4D imaging radar has attracted the attention of the industry.

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

This Insight Report provides a comprehensive analysis of the global Automotive Radar SoC 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 Radar SoC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Radar SoC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Radar SoC 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 Radar SoC.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Radar SoC market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

4Tx/4Rx

3Tx/4Rx

Others

Segmentation by Process Node:

40nm

28nm

Others

Segmentation by Grade:

ISO 26262 ASIL-B

ISO 26262 ASIL-C

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.

Texas Instruments

Infineon Technologies

Arbe Robotics

Smartmicro

Muniu Tech

WHST

HUAWEI

Calterah Semiconductor

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Radar SoC market?

What factors are driving Automotive Radar SoC market growth, globally and by region?

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

How do Automotive Radar SoC market opportunities vary by end market size?

How does Automotive Radar SoC 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 Radar SoC Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Automotive Radar SoC by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Automotive Radar SoC by Country/Region, 2021, 2025 & 2032

2.2 Automotive Radar SoC Segment by Type

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

2.3 Automotive Radar SoC Segment by Process Node

- 2.3.1 40nm
- 2.3.2 28nm
- 2.3.3 Others
- 2.3.4 Automotive Radar SoC Sales by Process Node
 - 2.3.4.1 Global Automotive Radar SoC Sales Market Share by Process Node (2021-2026)
 - 2.3.4.2 Global Automotive Radar SoC Revenue and Market Share by Process Node (2021-2026)

- 2.3.4.3 Global Automotive Radar SoC Sale Price by Process Node (2021-2026)
- 2.4 Automotive Radar SoC Segment by Grade
 - 2.4.1 ISO 26262 ASIL-B
 - 2.4.2 ISO 26262 ASIL-C
 - 2.4.3 Others
 - 2.4.4 Automotive Radar SoC Sales by Grade
 - 2.4.4.1 Global Automotive Radar SoC Sales Market Share by Grade (2021-2026)
 - 2.4.4.2 Global Automotive Radar SoC Revenue and Market Share by Grade (2021-2026)
 - 2.4.4.3 Global Automotive Radar SoC Sale Price by Grade (2021-2026)
- 2.5 Automotive Radar SoC Segment by Application
 - 2.5.1 Corner Radar
 - 2.5.2 Front Radar
 - 2.5.3 Others
 - 2.5.4 Automotive Radar SoC Sales by Application
 - 2.5.4.1 Global Automotive Radar SoC Sale Market Share by Application (2021-2026)
 - 2.5.4.2 Global Automotive Radar SoC Revenue and Market Share by Application (2021-2026)
 - 2.5.4.3 Global Automotive Radar SoC Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Automotive Radar SoC Breakdown Data by Company
 - 3.1.1 Global Automotive Radar SoC Annual Sales by Company (2021-2026)
 - 3.1.2 Global Automotive Radar SoC Sales Market Share by Company (2021-2026)
- 3.2 Global Automotive Radar SoC Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Automotive Radar SoC Revenue by Company (2021-2026)
 - 3.2.2 Global Automotive Radar SoC Revenue Market Share by Company (2021-2026)
- 3.3 Global Automotive Radar SoC Sale Price by Company
- 3.4 Key Manufacturers Automotive Radar SoC Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Automotive Radar SoC Product Location Distribution
 - 3.4.2 Players Automotive Radar SoC 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 RADAR SoC BY GEOGRAPHIC REGION

4.1 World Historic Automotive Radar SoC Market Size by Geographic Region (2021-2026)

4.1.1 Global Automotive Radar SoC Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Automotive Radar SoC Annual Revenue by Geographic Region (2021-2026)

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

4.2.1 Global Automotive Radar SoC Annual Sales by Country/Region (2021-2026)

4.2.2 Global Automotive Radar SoC Annual Revenue by Country/Region (2021-2026)

4.3 Americas Automotive Radar SoC Sales Growth

4.4 APAC Automotive Radar SoC Sales Growth

4.5 Europe Automotive Radar SoC Sales Growth

4.6 Middle East & Africa Automotive Radar SoC Sales Growth

5 AMERICAS

5.1 Americas Automotive Radar SoC Sales by Country

5.1.1 Americas Automotive Radar SoC Sales by Country (2021-2026)

5.1.2 Americas Automotive Radar SoC Revenue by Country (2021-2026)

5.2 Americas Automotive Radar SoC Sales by Type (2021-2026)

5.3 Americas Automotive Radar SoC Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Automotive Radar SoC Sales by Region

6.1.1 APAC Automotive Radar SoC Sales by Region (2021-2026)

6.1.2 APAC Automotive Radar SoC Revenue by Region (2021-2026)

6.2 APAC Automotive Radar SoC Sales by Type (2021-2026)

6.3 APAC Automotive Radar SoC 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 Radar SoC by Country
 - 7.1.1 Europe Automotive Radar SoC Sales by Country (2021-2026)
 - 7.1.2 Europe Automotive Radar SoC Revenue by Country (2021-2026)
- 7.2 Europe Automotive Radar SoC Sales by Type (2021-2026)
- 7.3 Europe Automotive Radar SoC 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 Radar SoC by Country
 - 8.1.1 Middle East & Africa Automotive Radar SoC Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Automotive Radar SoC Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Automotive Radar SoC Sales by Type (2021-2026)
- 8.3 Middle East & Africa Automotive Radar SoC 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 Radar SoC

10.3 Manufacturing Process Analysis of Automotive Radar SoC

10.4 Industry Chain Structure of Automotive Radar SoC

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Automotive Radar SoC Distributors

11.3 Automotive Radar SoC Customer

12 WORLD FORECAST REVIEW FOR AUTOMOTIVE RADAR SOC BY GEOGRAPHIC REGION

12.1 Global Automotive Radar SoC Market Size Forecast by Region

12.1.1 Global Automotive Radar SoC Forecast by Region (2027-2032)

12.1.2 Global Automotive Radar SoC 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 Radar SoC Forecast by Type (2027-2032)

12.7 Global Automotive Radar SoC Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Texas Instruments

13.1.1 Texas Instruments Company Information

13.1.2 Texas Instruments Automotive Radar SoC Product Portfolios and Specifications

13.1.3 Texas Instruments Automotive Radar SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Texas Instruments Main Business Overview

13.1.5 Texas Instruments Latest Developments

13.2 Infineon Technologies

13.2.1 Infineon Technologies Company Information

13.2.2 Infineon Technologies Automotive Radar SoC Product Portfolios and Specifications

13.2.3 Infineon Technologies Automotive Radar SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Infineon Technologies Main Business Overview

13.2.5 Infineon Technologies Latest Developments

13.3 Arbe Robotics

13.3.1 Arbe Robotics Company Information

13.3.2 Arbe Robotics Automotive Radar SoC Product Portfolios and Specifications

13.3.3 Arbe Robotics Automotive Radar SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Arbe Robotics Main Business Overview

13.3.5 Arbe Robotics Latest Developments

13.4 Smartmicro

13.4.1 Smartmicro Company Information

13.4.2 Smartmicro Automotive Radar SoC Product Portfolios and Specifications

13.4.3 Smartmicro Automotive Radar SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Smartmicro Main Business Overview

13.4.5 Smartmicro Latest Developments

13.5 Muniu Tech

13.5.1 Muniu Tech Company Information

13.5.2 Muniu Tech Automotive Radar SoC Product Portfolios and Specifications

13.5.3 Muniu Tech Automotive Radar SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Muniu Tech Main Business Overview

13.5.5 Muniu Tech Latest Developments

13.6 WHST

13.6.1 WHST Company Information

13.6.2 WHST Automotive Radar SoC Product Portfolios and Specifications

13.6.3 WHST Automotive Radar SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 WHST Main Business Overview

13.6.5 WHST Latest Developments

13.7 HUAWEI

13.7.1 HUAWEI Company Information

13.7.2 HUAWEI Automotive Radar SoC Product Portfolios and Specifications

13.7.3 HUAWEI Automotive Radar SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 HUAWEI Main Business Overview

13.7.5 HUAWEI Latest Developments

13.8 Calterah Semiconductor

13.8.1 Calterah Semiconductor Company Information

13.8.2 Calterah Semiconductor Automotive Radar SoC Product Portfolios and Specifications

13.8.3 Calterah Semiconductor Automotive Radar SoC Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Calterah Semiconductor Main Business Overview

13.8.5 Calterah Semiconductor Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Automotive Radar SoC Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Automotive Radar SoC Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 4Tx/4Rx

Table 4. Major Players of 3Tx/4Rx

Table 5. Major Players of Others

Table 6. Global Automotive Radar SoC Sales by Type (2021-2026) & (Million Units)

Table 7. Global Automotive Radar SoC Sales Market Share by Type (2021-2026)

Table 8. Global Automotive Radar SoC Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Automotive Radar SoC Revenue Market Share by Type (2021-2026)

Table 10. Global Automotive Radar SoC Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of 40nm

Table 12. Major Players of 28nm

Table 13. Major Players of Others

Table 14. Global Automotive Radar SoC Sales by Process Node (2021-2026) & (Million Units)

Table 15. Global Automotive Radar SoC Sales Market Share by Process Node (2021-2026)

Table 16. Global Automotive Radar SoC Revenue by Process Node (2021-2026) & (\$ million)

Table 17. Global Automotive Radar SoC Revenue Market Share by Process Node (2021-2026)

Table 18. Global Automotive Radar SoC Sale Price by Process Node (2021-2026) & (US\$/Unit)

Table 19. Major Players of ISO 26262 ASIL-B

Table 20. Major Players of ISO 26262 ASIL-C

Table 21. Major Players of Others

Table 22. Global Automotive Radar SoC Sales by Grade (2021-2026) & (Million Units)

Table 23. Global Automotive Radar SoC Sales Market Share by Grade (2021-2026)

Table 24. Global Automotive Radar SoC Revenue by Grade (2021-2026) & (\$ million)

Table 25. Global Automotive Radar SoC Revenue Market Share by Grade (2021-2026)

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

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

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

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

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

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

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

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

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

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

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

Table 37. Key Manufacturers Automotive Radar SoC Producing Area Distribution and Sales Area

Table 38. Players Automotive Radar SoC Products Offered

Table 39. Automotive Radar SoC 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 Radar SoC Sales by Geographic Region (2021-2026) & (Million Units)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 63. Europe Automotive Radar SoC Sales by Application (2021-2026) & (Million Units)

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

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

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

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

Table 68. Key Market Drivers & Growth Opportunities of Automotive Radar SoC

Table 69. Key Market Challenges & Risks of Automotive Radar SoC

Table 70. Key Industry Trends of Automotive Radar SoC

Table 71. Automotive Radar SoC Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. Automotive Radar SoC Distributors List

Table 74. Automotive Radar SoC Customer List

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

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

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

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

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

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

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

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

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

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

Table 85. Global Automotive Radar SoC Sales Forecast by Type (2027-2032) & (Million Units)

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

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

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

Table 89. Texas Instruments Basic Information, Automotive Radar SoC Manufacturing Base, Sales Area and Its Competitors

Table 90. Texas Instruments Automotive Radar SoC Product Portfolios and Specifications

Table 91. Texas Instruments Automotive Radar SoC Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. Texas Instruments Main Business

Table 93. Texas Instruments Latest Developments

Table 94. Infineon Technologies Basic Information, Automotive Radar SoC Manufacturing Base, Sales Area and Its Competitors

Table 95. Infineon Technologies Automotive Radar SoC Product Portfolios and Specifications

Table 96. Infineon Technologies Automotive Radar SoC Sales (Million Units), Revenue

(\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. Infineon Technologies Main Business

Table 98. Infineon Technologies Latest Developments

Table 99. Arbe Robotics Basic Information, Automotive Radar SoC Manufacturing Base, Sales Area and Its Competitors

Table 100. Arbe Robotics Automotive Radar SoC Product Portfolios and Specifications

Table 101. Arbe Robotics Automotive Radar SoC Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. Arbe Robotics Main Business

Table 103. Arbe Robotics Latest Developments

Table 104. Smartmicro Basic Information, Automotive Radar SoC Manufacturing Base, Sales Area and Its Competitors

Table 105. Smartmicro Automotive Radar SoC Product Portfolios and Specifications

Table 106. Smartmicro Automotive Radar SoC Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. Smartmicro Main Business

Table 108. Smartmicro Latest Developments

Table 109. Muniu Tech Basic Information, Automotive Radar SoC Manufacturing Base, Sales Area and Its Competitors

Table 110. Muniu Tech Automotive Radar SoC Product Portfolios and Specifications

Table 111. Muniu Tech Automotive Radar SoC Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. Muniu Tech Main Business

Table 113. Muniu Tech Latest Developments

Table 114. WHST Basic Information, Automotive Radar SoC Manufacturing Base, Sales Area and Its Competitors

Table 115. WHST Automotive Radar SoC Product Portfolios and Specifications

Table 116. WHST Automotive Radar SoC Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. WHST Main Business

Table 118. WHST Latest Developments

Table 119. HUAWEI Basic Information, Automotive Radar SoC Manufacturing Base, Sales Area and Its Competitors

Table 120. HUAWEI Automotive Radar SoC Product Portfolios and Specifications

Table 121. HUAWEI Automotive Radar SoC Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. HUAWEI Main Business

Table 123. HUAWEI Latest Developments

Table 124. Calterah Semiconductor Basic Information, Automotive Radar SoC

Manufacturing Base, Sales Area and Its Competitors

Table 125. Calterah Semiconductor Automotive Radar SoC Product Portfolios and Specifications

Table 126. Calterah Semiconductor Automotive Radar SoC Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Calterah Semiconductor Main Business

Table 128. Calterah Semiconductor Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Automotive Radar SoC
- Figure 2. Automotive Radar SoC Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Automotive Radar SoC Sales Growth Rate 2021-2032 (Million Units)
- Figure 7. Global Automotive Radar SoC Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Automotive Radar SoC Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Automotive Radar SoC Sales Market Share by Country/Region (2025)
- Figure 10. Automotive Radar SoC Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 4Tx/4Rx
- Figure 12. Product Picture of 3Tx/4Rx
- Figure 13. Product Picture of Others
- Figure 14. Global Automotive Radar SoC Sales Market Share by Type in 2026
- Figure 15. Global Automotive Radar SoC Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of 40nm
- Figure 17. Product Picture of 28nm
- Figure 18. Product Picture of Others
- Figure 19. Global Automotive Radar SoC Sales Market Share by Process Node in 2026
- Figure 20. Global Automotive Radar SoC Revenue Market Share by Process Node (2021-2026)
- Figure 21. Product Picture of ISO 26262 ASIL-B
- Figure 22. Product Picture of ISO 26262 ASIL-C
- Figure 23. Product Picture of Others
- Figure 24. Global Automotive Radar SoC Sales Market Share by Grade in 2026
- Figure 25. Global Automotive Radar SoC Revenue Market Share by Grade (2021-2026)
- Figure 26. Automotive Radar SoC Consumed in Corner Radar
- Figure 27. Global Automotive Radar SoC Market: Corner Radar (2021-2026) & (Million Units)
- Figure 28. Automotive Radar SoC Consumed in Front Radar
- Figure 29. Global Automotive Radar SoC Market: Front Radar (2021-2026) & (Million Units)
- Figure 30. Automotive Radar SoC Consumed in Others

- Figure 31. Global Automotive Radar SoC Market: Others (2021-2026) & (Million Units)
- Figure 32. Global Automotive Radar SoC Sale Market Share by Application (2025)
- Figure 33. Global Automotive Radar SoC Revenue Market Share by Application in 2026
- Figure 34. Automotive Radar SoC Sales by Company in 2026 (Million Units)
- Figure 35. Global Automotive Radar SoC Sales Market Share by Company in 2026
- Figure 36. Automotive Radar SoC Revenue by Company in 2026 (\$ millions)
- Figure 37. Global Automotive Radar SoC Revenue Market Share by Company in 2026
- Figure 38. Global Automotive Radar SoC Sales Market Share by Geographic Region (2021-2026)
- Figure 39. Global Automotive Radar SoC Revenue Market Share by Geographic Region in 2026
- Figure 40. Americas Automotive Radar SoC Sales 2021-2026 (Million Units)
- Figure 41. Americas Automotive Radar SoC Revenue 2021-2026 (\$ millions)
- Figure 42. APAC Automotive Radar SoC Sales 2021-2026 (Million Units)
- Figure 43. APAC Automotive Radar SoC Revenue 2021-2026 (\$ millions)
- Figure 44. Europe Automotive Radar SoC Sales 2021-2026 (Million Units)
- Figure 45. Europe Automotive Radar SoC Revenue 2021-2026 (\$ millions)
- Figure 46. Middle East & Africa Automotive Radar SoC Sales 2021-2026 (Million Units)
- Figure 47. Middle East & Africa Automotive Radar SoC Revenue 2021-2026 (\$ millions)
- Figure 48. Americas Automotive Radar SoC Sales Market Share by Country in 2026
- Figure 49. Americas Automotive Radar SoC Revenue Market Share by Country (2021-2026)
- Figure 50. Americas Automotive Radar SoC Sales Market Share by Type (2021-2026)
- Figure 51. Americas Automotive Radar SoC Sales Market Share by Application (2021-2026)
- Figure 52. United States Automotive Radar SoC Revenue Growth 2021-2026 (\$ millions)
- Figure 53. Canada Automotive Radar SoC Revenue Growth 2021-2026 (\$ millions)
- Figure 54. Mexico Automotive Radar SoC Revenue Growth 2021-2026 (\$ millions)
- Figure 55. Brazil Automotive Radar SoC Revenue Growth 2021-2026 (\$ millions)
- Figure 56. APAC Automotive Radar SoC Sales Market Share by Region in 2026
- Figure 57. APAC Automotive Radar SoC Revenue Market Share by Region (2021-2026)
- Figure 58. APAC Automotive Radar SoC Sales Market Share by Type (2021-2026)
- Figure 59. APAC Automotive Radar SoC Sales Market Share by Application (2021-2026)
- Figure 60. China Automotive Radar SoC Revenue Growth 2021-2026 (\$ millions)
- Figure 61. Japan Automotive Radar SoC Revenue Growth 2021-2026 (\$ millions)
- Figure 62. South Korea Automotive Radar SoC Revenue Growth 2021-2026 (\$ millions)

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

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

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

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

Figure 67. Europe Automotive Radar SoC Sales Market Share by Country in 2026

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 84. Manufacturing Cost Structure Analysis of Automotive Radar SoC in 2026

Figure 85. Manufacturing Process Analysis of Automotive Radar SoC

Figure 86. Industry Chain Structure of Automotive Radar SoC

Figure 87. Channels of Distribution

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

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

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

Figure 91. Global Automotive Radar SoC Revenue Market Share Forecast by Type

(2027-2032)

Figure 92. Global Automotive Radar SoC Sales Market Share Forecast by Application

(2027-2032)

Figure 93. Global Automotive Radar SoC Revenue Market Share Forecast by

Application (2027-2032)

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