

# Global Single-chip Radar Soc Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Single-chip Radar Soc market size was valued at US\$ 432 million in 2025 and is forecast to a readjusted size of US\$ 1538 million by 2032 with a CAGR of 19.8% during review period.

Single-chip Radar SoC is a highly integrated radar system-on-chip that combines RF front-end circuits, digital signal processing, and microcontroller functions on a single CMOS die, enabling compact architecture, low power consumption, and consistent signal performance for angle radar and forward radar. 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 algorithms, mixed-signal verification, and SoC-level functional integration, which together define computational capability, radar performance, and integration level. Downstream, Single-chip 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.

This report is a detailed and comprehensive analysis for global Single-chip Radar Soc market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Single-chip Radar Soc market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Single-chip Radar Soc market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Single-chip Radar Soc market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Single-chip Radar Soc market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Single-chip Radar Soc

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Single-chip Radar Soc market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Texas Instruments, Infineon Technologies, Arbe Robotics, Smartmicro, Muniu Tech, WHST, HUAWEI, Calterah Semiconductor, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Single-chip Radar Soc market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

4Tx/4Rx

3Tx/4Rx

Others

### Market segment by Process Node

40nm

28nm

Others

### Market segment by Grade

ISO 26262 ASIL-B

ISO 26262 ASIL-C

Others

### Market segment by Application

Corner Radar

Front Radar

Others

### Major players covered

Texas Instruments

Infineon Technologies

Arbe Robotics

Smartmicro

Muniu Tech

WHST

HUAWEI

Calterah Semiconductor

### Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Single-chip Radar Soc product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single-chip Radar Soc, with price, sales quantity, revenue, and global market share of Single-chip Radar Soc from 2021 to 2026.

Chapter 3, the Single-chip Radar Soc competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Single-chip Radar Soc breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Single-chip Radar Soc market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Single-chip Radar Soc.

Chapter 14 and 15, to describe Single-chip Radar Soc sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Single-chip Radar Soc Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 4Tx/4Rx

1.3.3 3Tx/4Rx

1.3.4 Others

1.4 Market Analysis by Process Node

1.4.1 Overview: Global Single-chip Radar Soc Consumption Value by Process Node: 2021 Versus 2025 Versus 2032

1.4.2 40nm

1.4.3 28nm

1.4.4 Others

1.5 Market Analysis by Grade

1.5.1 Overview: Global Single-chip Radar Soc Consumption Value by Grade: 2021 Versus 2025 Versus 2032

1.5.2 ISO 26262 ASIL-B

1.5.3 ISO 26262 ASIL-C

1.5.4 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Single-chip Radar Soc Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Corner Radar

1.6.3 Front Radar

1.6.4 Others

1.7 Global Single-chip Radar Soc Market Size & Forecast

1.7.1 Global Single-chip Radar Soc Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Single-chip Radar Soc Sales Quantity (2021-2032)

1.7.3 Global Single-chip Radar Soc Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

2.1 Texas Instruments

2.1.1 Texas Instruments Details

- 2.1.2 Texas Instruments Major Business
- 2.1.3 Texas Instruments Single-chip Radar Soc Product and Services
- 2.1.4 Texas Instruments Single-chip Radar Soc Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Texas Instruments Recent Developments/Updates
- 2.2 Infineon Technologies
  - 2.2.1 Infineon Technologies Details
  - 2.2.2 Infineon Technologies Major Business
  - 2.2.3 Infineon Technologies Single-chip Radar Soc Product and Services
  - 2.2.4 Infineon Technologies Single-chip Radar Soc Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.2.5 Infineon Technologies Recent Developments/Updates
- 2.3 Arbe Robotics
  - 2.3.1 Arbe Robotics Details
  - 2.3.2 Arbe Robotics Major Business
  - 2.3.3 Arbe Robotics Single-chip Radar Soc Product and Services
  - 2.3.4 Arbe Robotics Single-chip Radar Soc Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.3.5 Arbe Robotics Recent Developments/Updates
- 2.4 Smartmicro
  - 2.4.1 Smartmicro Details
  - 2.4.2 Smartmicro Major Business
  - 2.4.3 Smartmicro Single-chip Radar Soc Product and Services
  - 2.4.4 Smartmicro Single-chip Radar Soc Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.4.5 Smartmicro Recent Developments/Updates
- 2.5 Muniu Tech
  - 2.5.1 Muniu Tech Details
  - 2.5.2 Muniu Tech Major Business
  - 2.5.3 Muniu Tech Single-chip Radar Soc Product and Services
  - 2.5.4 Muniu Tech Single-chip Radar Soc Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.5.5 Muniu Tech Recent Developments/Updates
- 2.6 WHST
  - 2.6.1 WHST Details
  - 2.6.2 WHST Major Business
  - 2.6.3 WHST Single-chip Radar Soc Product and Services
  - 2.6.4 WHST Single-chip Radar Soc Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 WHST Recent Developments/Updates

## 2.7 HUAWEI

2.7.1 HUAWEI Details

2.7.2 HUAWEI Major Business

2.7.3 HUAWEI Single-chip Radar Soc Product and Services

2.7.4 HUAWEI Single-chip Radar Soc Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 HUAWEI Recent Developments/Updates

## 2.8 Calterah Semiconductor

2.8.1 Calterah Semiconductor Details

2.8.2 Calterah Semiconductor Major Business

2.8.3 Calterah Semiconductor Single-chip Radar Soc Product and Services

2.8.4 Calterah Semiconductor Single-chip Radar Soc Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Calterah Semiconductor Recent Developments/Updates

## **3 COMPETITIVE ENVIRONMENT: SINGLE-CHIP RADAR SOC BY MANUFACTURER**

3.1 Global Single-chip Radar Soc Sales Quantity by Manufacturer (2021-2026)

3.2 Global Single-chip Radar Soc Revenue by Manufacturer (2021-2026)

3.3 Global Single-chip Radar Soc Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Single-chip Radar Soc by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Single-chip Radar Soc Manufacturer Market Share in 2025

3.4.3 Top 6 Single-chip Radar Soc Manufacturer Market Share in 2025

3.5 Single-chip Radar Soc Market: Overall Company Footprint Analysis

3.5.1 Single-chip Radar Soc Market: Region Footprint

3.5.2 Single-chip Radar Soc Market: Company Product Type Footprint

3.5.3 Single-chip Radar Soc Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

4.1 Global Single-chip Radar Soc Market Size by Region

4.1.1 Global Single-chip Radar Soc Sales Quantity by Region (2021-2032)

4.1.2 Global Single-chip Radar Soc Consumption Value by Region (2021-2032)

- 4.1.3 Global Single-chip Radar Soc Average Price by Region (2021-2032)
- 4.2 North America Single-chip Radar Soc Consumption Value (2021-2032)
- 4.3 Europe Single-chip Radar Soc Consumption Value (2021-2032)
- 4.4 Asia-Pacific Single-chip Radar Soc Consumption Value (2021-2032)
- 4.5 South America Single-chip Radar Soc Consumption Value (2021-2032)
- 4.6 Middle East & Africa Single-chip Radar Soc Consumption Value (2021-2032)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Single-chip Radar Soc Sales Quantity by Type (2021-2032)
- 5.2 Global Single-chip Radar Soc Consumption Value by Type (2021-2032)
- 5.3 Global Single-chip Radar Soc Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Single-chip Radar Soc Sales Quantity by Application (2021-2032)
- 6.2 Global Single-chip Radar Soc Consumption Value by Application (2021-2032)
- 6.3 Global Single-chip Radar Soc Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

- 7.1 North America Single-chip Radar Soc Sales Quantity by Type (2021-2032)
- 7.2 North America Single-chip Radar Soc Sales Quantity by Application (2021-2032)
- 7.3 North America Single-chip Radar Soc Market Size by Country
  - 7.3.1 North America Single-chip Radar Soc Sales Quantity by Country (2021-2032)
  - 7.3.2 North America Single-chip Radar Soc Consumption Value by Country (2021-2032)
  - 7.3.3 United States Market Size and Forecast (2021-2032)
  - 7.3.4 Canada Market Size and Forecast (2021-2032)
  - 7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

- 8.1 Europe Single-chip Radar Soc Sales Quantity by Type (2021-2032)
- 8.2 Europe Single-chip Radar Soc Sales Quantity by Application (2021-2032)
- 8.3 Europe Single-chip Radar Soc Market Size by Country
  - 8.3.1 Europe Single-chip Radar Soc Sales Quantity by Country (2021-2032)
  - 8.3.2 Europe Single-chip Radar Soc Consumption Value by Country (2021-2032)
  - 8.3.3 Germany Market Size and Forecast (2021-2032)

- 8.3.4 France Market Size and Forecast (2021-2032)
- 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
- 8.3.6 Russia Market Size and Forecast (2021-2032)
- 8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

- 9.1 Asia-Pacific Single-chip Radar Soc Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Single-chip Radar Soc Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Single-chip Radar Soc Market Size by Region
  - 9.3.1 Asia-Pacific Single-chip Radar Soc Sales Quantity by Region (2021-2032)
  - 9.3.2 Asia-Pacific Single-chip Radar Soc Consumption Value by Region (2021-2032)
  - 9.3.3 China Market Size and Forecast (2021-2032)
  - 9.3.4 Japan Market Size and Forecast (2021-2032)
  - 9.3.5 South Korea Market Size and Forecast (2021-2032)
  - 9.3.6 India Market Size and Forecast (2021-2032)
  - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
  - 9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

- 10.1 South America Single-chip Radar Soc Sales Quantity by Type (2021-2032)
- 10.2 South America Single-chip Radar Soc Sales Quantity by Application (2021-2032)
- 10.3 South America Single-chip Radar Soc Market Size by Country
  - 10.3.1 South America Single-chip Radar Soc Sales Quantity by Country (2021-2032)
  - 10.3.2 South America Single-chip Radar Soc Consumption Value by Country (2021-2032)
  - 10.3.3 Brazil Market Size and Forecast (2021-2032)
  - 10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa Single-chip Radar Soc Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Single-chip Radar Soc Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Single-chip Radar Soc Market Size by Country
  - 11.3.1 Middle East & Africa Single-chip Radar Soc Sales Quantity by Country (2021-2032)
  - 11.3.2 Middle East & Africa Single-chip Radar Soc Consumption Value by Country

(2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

12.1 Single-chip Radar Soc Market Drivers

12.2 Single-chip Radar Soc Market Restraints

12.3 Single-chip Radar Soc Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of Single-chip Radar Soc and Key Manufacturers

13.2 Manufacturing Costs Percentage of Single-chip Radar Soc

13.3 Single-chip Radar Soc Production Process

13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Single-chip Radar Soc Typical Distributors

14.3 Single-chip Radar Soc Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

## 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Single-chip Radar Soc Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Single-chip Radar Soc Consumption Value by Process Node, (USD Million), 2021 & 2025 & 2032

Table 3. Global Single-chip Radar Soc Consumption Value by Grade, (USD Million), 2021 & 2025 & 2032

Table 4. Global Single-chip Radar Soc Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 6. Texas Instruments Major Business

Table 7. Texas Instruments Single-chip Radar Soc Product and Services

Table 8. Texas Instruments Single-chip Radar Soc Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Texas Instruments Recent Developments/Updates

Table 10. Infineon Technologies Basic Information, Manufacturing Base and Competitors

Table 11. Infineon Technologies Major Business

Table 12. Infineon Technologies Single-chip Radar Soc Product and Services

Table 13. Infineon Technologies Single-chip Radar Soc Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Infineon Technologies Recent Developments/Updates

Table 15. Arbe Robotics Basic Information, Manufacturing Base and Competitors

Table 16. Arbe Robotics Major Business

Table 17. Arbe Robotics Single-chip Radar Soc Product and Services

Table 18. Arbe Robotics Single-chip Radar Soc Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Arbe Robotics Recent Developments/Updates

Table 20. Smartmicro Basic Information, Manufacturing Base and Competitors

Table 21. Smartmicro Major Business

Table 22. Smartmicro Single-chip Radar Soc Product and Services

Table 23. Smartmicro Single-chip Radar Soc Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Smartmicro Recent Developments/Updates

- Table 25. Muniu Tech Basic Information, Manufacturing Base and Competitors
- Table 26. Muniu Tech Major Business
- Table 27. Muniu Tech Single-chip Radar Soc Product and Services
- Table 28. Muniu Tech Single-chip Radar Soc Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 29. Muniu Tech Recent Developments/Updates
- Table 30. WHST Basic Information, Manufacturing Base and Competitors
- Table 31. WHST Major Business
- Table 32. WHST Single-chip Radar Soc Product and Services
- Table 33. WHST Single-chip Radar Soc Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 34. WHST Recent Developments/Updates
- Table 35. HUAWEI Basic Information, Manufacturing Base and Competitors
- Table 36. HUAWEI Major Business
- Table 37. HUAWEI Single-chip Radar Soc Product and Services
- Table 38. HUAWEI Single-chip Radar Soc Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 39. HUAWEI Recent Developments/Updates
- Table 40. Calterah Semiconductor Basic Information, Manufacturing Base and Competitors
- Table 41. Calterah Semiconductor Major Business
- Table 42. Calterah Semiconductor Single-chip Radar Soc Product and Services
- Table 43. Calterah Semiconductor Single-chip Radar Soc Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 44. Calterah Semiconductor Recent Developments/Updates
- Table 45. Global Single-chip Radar Soc Sales Quantity by Manufacturer (2021-2026) & (Million Units)
- Table 46. Global Single-chip Radar Soc Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 47. Global Single-chip Radar Soc Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 48. Market Position of Manufacturers in Single-chip Radar Soc, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 49. Head Office and Single-chip Radar Soc Production Site of Key Manufacturer
- Table 50. Single-chip Radar Soc Market: Company Product Type Footprint
- Table 51. Single-chip Radar Soc Market: Company Product Application Footprint
- Table 52. Single-chip Radar Soc New Market Entrants and Barriers to Market Entry
- Table 53. Single-chip Radar Soc Mergers, Acquisition, Agreements, and Collaborations

Table 54. Global Single-chip Radar Soc Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 55. Global Single-chip Radar Soc Sales Quantity by Region (2021-2026) & (Million Units)

Table 56. Global Single-chip Radar Soc Sales Quantity by Region (2027-2032) & (Million Units)

Table 57. Global Single-chip Radar Soc Consumption Value by Region (2021-2026) & (USD Million)

Table 58. Global Single-chip Radar Soc Consumption Value by Region (2027-2032) & (USD Million)

Table 59. Global Single-chip Radar Soc Average Price by Region (2021-2026) & (US\$/Unit)

Table 60. Global Single-chip Radar Soc Average Price by Region (2027-2032) & (US\$/Unit)

Table 61. Global Single-chip Radar Soc Sales Quantity by Type (2021-2026) & (Million Units)

Table 62. Global Single-chip Radar Soc Sales Quantity by Type (2027-2032) & (Million Units)

Table 63. Global Single-chip Radar Soc Consumption Value by Type (2021-2026) & (USD Million)

Table 64. Global Single-chip Radar Soc Consumption Value by Type (2027-2032) & (USD Million)

Table 65. Global Single-chip Radar Soc Average Price by Type (2021-2026) & (US\$/Unit)

Table 66. Global Single-chip Radar Soc Average Price by Type (2027-2032) & (US\$/Unit)

Table 67. Global Single-chip Radar Soc Sales Quantity by Application (2021-2026) & (Million Units)

Table 68. Global Single-chip Radar Soc Sales Quantity by Application (2027-2032) & (Million Units)

Table 69. Global Single-chip Radar Soc Consumption Value by Application (2021-2026) & (USD Million)

Table 70. Global Single-chip Radar Soc Consumption Value by Application (2027-2032) & (USD Million)

Table 71. Global Single-chip Radar Soc Average Price by Application (2021-2026) & (US\$/Unit)

Table 72. Global Single-chip Radar Soc Average Price by Application (2027-2032) & (US\$/Unit)

Table 73. North America Single-chip Radar Soc Sales Quantity by Type (2021-2026) &

(Million Units)

Table 74. North America Single-chip Radar Soc Sales Quantity by Type (2027-2032) & (Million Units)

Table 75. North America Single-chip Radar Soc Sales Quantity by Application (2021-2026) & (Million Units)

Table 76. North America Single-chip Radar Soc Sales Quantity by Application (2027-2032) & (Million Units)

Table 77. North America Single-chip Radar Soc Sales Quantity by Country (2021-2026) & (Million Units)

Table 78. North America Single-chip Radar Soc Sales Quantity by Country (2027-2032) & (Million Units)

Table 79. North America Single-chip Radar Soc Consumption Value by Country (2021-2026) & (USD Million)

Table 80. North America Single-chip Radar Soc Consumption Value by Country (2027-2032) & (USD Million)

Table 81. Europe Single-chip Radar Soc Sales Quantity by Type (2021-2026) & (Million Units)

Table 82. Europe Single-chip Radar Soc Sales Quantity by Type (2027-2032) & (Million Units)

Table 83. Europe Single-chip Radar Soc Sales Quantity by Application (2021-2026) & (Million Units)

Table 84. Europe Single-chip Radar Soc Sales Quantity by Application (2027-2032) & (Million Units)

Table 85. Europe Single-chip Radar Soc Sales Quantity by Country (2021-2026) & (Million Units)

Table 86. Europe Single-chip Radar Soc Sales Quantity by Country (2027-2032) & (Million Units)

Table 87. Europe Single-chip Radar Soc Consumption Value by Country (2021-2026) & (USD Million)

Table 88. Europe Single-chip Radar Soc Consumption Value by Country (2027-2032) & (USD Million)

Table 89. Asia-Pacific Single-chip Radar Soc Sales Quantity by Type (2021-2026) & (Million Units)

Table 90. Asia-Pacific Single-chip Radar Soc Sales Quantity by Type (2027-2032) & (Million Units)

Table 91. Asia-Pacific Single-chip Radar Soc Sales Quantity by Application (2021-2026) & (Million Units)

Table 92. Asia-Pacific Single-chip Radar Soc Sales Quantity by Application (2027-2032) & (Million Units)

Table 93. Asia-Pacific Single-chip Radar Soc Sales Quantity by Region (2021-2026) & (Million Units)

Table 94. Asia-Pacific Single-chip Radar Soc Sales Quantity by Region (2027-2032) & (Million Units)

Table 95. Asia-Pacific Single-chip Radar Soc Consumption Value by Region (2021-2026) & (USD Million)

Table 96. Asia-Pacific Single-chip Radar Soc Consumption Value by Region (2027-2032) & (USD Million)

Table 97. South America Single-chip Radar Soc Sales Quantity by Type (2021-2026) & (Million Units)

Table 98. South America Single-chip Radar Soc Sales Quantity by Type (2027-2032) & (Million Units)

Table 99. South America Single-chip Radar Soc Sales Quantity by Application (2021-2026) & (Million Units)

Table 100. South America Single-chip Radar Soc Sales Quantity by Application (2027-2032) & (Million Units)

Table 101. South America Single-chip Radar Soc Sales Quantity by Country (2021-2026) & (Million Units)

Table 102. South America Single-chip Radar Soc Sales Quantity by Country (2027-2032) & (Million Units)

Table 103. South America Single-chip Radar Soc Consumption Value by Country (2021-2026) & (USD Million)

Table 104. South America Single-chip Radar Soc Consumption Value by Country (2027-2032) & (USD Million)

Table 105. Middle East & Africa Single-chip Radar Soc Sales Quantity by Type (2021-2026) & (Million Units)

Table 106. Middle East & Africa Single-chip Radar Soc Sales Quantity by Type (2027-2032) & (Million Units)

Table 107. Middle East & Africa Single-chip Radar Soc Sales Quantity by Application (2021-2026) & (Million Units)

Table 108. Middle East & Africa Single-chip Radar Soc Sales Quantity by Application (2027-2032) & (Million Units)

Table 109. Middle East & Africa Single-chip Radar Soc Sales Quantity by Country (2021-2026) & (Million Units)

Table 110. Middle East & Africa Single-chip Radar Soc Sales Quantity by Country (2027-2032) & (Million Units)

Table 111. Middle East & Africa Single-chip Radar Soc Consumption Value by Country (2021-2026) & (USD Million)

Table 112. Middle East & Africa Single-chip Radar Soc Consumption Value by Country

(2027-2032) & (USD Million)

Table 113. Single-chip Radar Soc Raw Material

Table 114. Key Manufacturers of Single-chip Radar Soc Raw Materials

Table 115. Single-chip Radar Soc Typical Distributors

Table 116. Single-chip Radar Soc Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Single-chip Radar Soc Picture

Figure 2. Global Single-chip Radar Soc Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Single-chip Radar Soc Revenue Market Share by Type in 2025

Figure 4. 4Tx/4Rx Examples

Figure 5. 3Tx/4Rx Examples

Figure 6. Others Examples

Figure 7. Global Single-chip Radar Soc Revenue by Process Node, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Single-chip Radar Soc Revenue Market Share by Process Node in 2025

Figure 9. 40nm Examples

Figure 10. 28nm Examples

Figure 11. Others Examples

Figure 12. Global Single-chip Radar Soc Revenue by Grade, (USD Million), 2021 & 2025 & 2032

Figure 13. Global Single-chip Radar Soc Revenue Market Share by Grade in 2025

Figure 14. ISO 26262 ASIL-B Examples

Figure 15. ISO 26262 ASIL-C Examples

Figure 16. Others Examples

Figure 17. Global Single-chip Radar Soc Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 18. Global Single-chip Radar Soc Revenue Market Share by Application in 2025

Figure 19. Corner Radar Examples

Figure 20. Front Radar Examples

Figure 21. Others Examples

Figure 22. Global Single-chip Radar Soc Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 23. Global Single-chip Radar Soc Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 24. Global Single-chip Radar Soc Sales Quantity (2021-2032) & (Million Units)

Figure 25. Global Single-chip Radar Soc Price (2021-2032) & (US\$/Unit)

Figure 26. Global Single-chip Radar Soc Sales Quantity Market Share by Manufacturer in 2025

Figure 27. Global Single-chip Radar Soc Revenue Market Share by Manufacturer in

2025

Figure 28. Producer Shipments of Single-chip Radar Soc by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 29. Top 3 Single-chip Radar Soc Manufacturer (Revenue) Market Share in 2025

Figure 30. Top 6 Single-chip Radar Soc Manufacturer (Revenue) Market Share in 2025

Figure 31. Global Single-chip Radar Soc Sales Quantity Market Share by Region (2021-2032)

Figure 32. Global Single-chip Radar Soc Consumption Value Market Share by Region (2021-2032)

Figure 33. North America Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 34. Europe Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 35. Asia-Pacific Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 36. South America Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 37. Middle East & Africa Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 38. Global Single-chip Radar Soc Sales Quantity Market Share by Type (2021-2032)

Figure 39. Global Single-chip Radar Soc Consumption Value Market Share by Type (2021-2032)

Figure 40. Global Single-chip Radar Soc Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. Global Single-chip Radar Soc Sales Quantity Market Share by Application (2021-2032)

Figure 42. Global Single-chip Radar Soc Revenue Market Share by Application (2021-2032)

Figure 43. Global Single-chip Radar Soc Average Price by Application (2021-2032) & (US\$/Unit)

Figure 44. North America Single-chip Radar Soc Sales Quantity Market Share by Type (2021-2032)

Figure 45. North America Single-chip Radar Soc Sales Quantity Market Share by Application (2021-2032)

Figure 46. North America Single-chip Radar Soc Sales Quantity Market Share by Country (2021-2032)

Figure 47. North America Single-chip Radar Soc Consumption Value Market Share by Country (2021-2032)

Figure 48. United States Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 49. Canada Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 50. Mexico Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 51. Europe Single-chip Radar Soc Sales Quantity Market Share by Type (2021-2032)

Figure 52. Europe Single-chip Radar Soc Sales Quantity Market Share by Application (2021-2032)

Figure 53. Europe Single-chip Radar Soc Sales Quantity Market Share by Country (2021-2032)

Figure 54. Europe Single-chip Radar Soc Consumption Value Market Share by Country (2021-2032)

Figure 55. Germany Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 56. France Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 57. United Kingdom Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 58. Russia Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 59. Italy Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 60. Asia-Pacific Single-chip Radar Soc Sales Quantity Market Share by Type (2021-2032)

Figure 61. Asia-Pacific Single-chip Radar Soc Sales Quantity Market Share by Application (2021-2032)

Figure 62. Asia-Pacific Single-chip Radar Soc Sales Quantity Market Share by Region (2021-2032)

Figure 63. Asia-Pacific Single-chip Radar Soc Consumption Value Market Share by Region (2021-2032)

Figure 64. China Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 65. Japan Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 66. South Korea Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 67. India Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 68. Southeast Asia Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 69. Australia Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 70. South America Single-chip Radar Soc Sales Quantity Market Share by Type (2021-2032)

Figure 71. South America Single-chip Radar Soc Sales Quantity Market Share by Application (2021-2032)

Figure 72. South America Single-chip Radar Soc Sales Quantity Market Share by Country (2021-2032)

Figure 73. South America Single-chip Radar Soc Consumption Value Market Share by Country (2021-2032)

Figure 74. Brazil Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 75. Argentina Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 76. Middle East & Africa Single-chip Radar Soc Sales Quantity Market Share by Type (2021-2032)

Figure 77. Middle East & Africa Single-chip Radar Soc Sales Quantity Market Share by Application (2021-2032)

Figure 78. Middle East & Africa Single-chip Radar Soc Sales Quantity Market Share by Country (2021-2032)

Figure 79. Middle East & Africa Single-chip Radar Soc Consumption Value Market Share by Country (2021-2032)

Figure 80. Turkey Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 81. Egypt Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 82. Saudi Arabia Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 83. South Africa Single-chip Radar Soc Consumption Value (2021-2032) & (USD Million)

Figure 84. Single-chip Radar Soc Market Drivers

Figure 85. Single-chip Radar Soc Market Restraints

Figure 86. Single-chip Radar Soc Market Trends

Figure 87. Porters Five Forces Analysis

Figure 88. Manufacturing Cost Structure Analysis of Single-chip Radar Soc in 2025

Figure 89. Manufacturing Process Analysis of Single-chip Radar Soc

Figure 90. Single-chip Radar Soc Industrial Chain

Figure 91. Sales Channel: Direct to End-User vs Distributors

Figure 92. Direct Channel Pros & Cons

Figure 93. Indirect Channel Pros & Cons

Figure 94. Methodology

Figure 95. Research Process and Data Source

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