

Global 77GHz Automotive 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 77GHz Automotive Radar SoC market size was valued at US\$ 391 million in 2025 and is forecast to a readjusted size of US\$ 1402 million by 2032 with a CAGR of 20.0% during review period.

77GHz automotive radar SoC is a highly integrated millimeter-wave chip operating in the standard 77GHz radar band, combining the RF front end, digital signal processing unit, and control module within a single architecture. Leveraging CMOS technology, it delivers a compact form factor, low power consumption, and stable signal performance, making it suitable for high-resolution sensing in corner radars and front long-range radars. In 2025, total production reached approximately 8.84 million units, with an average unit price of USD 43. The industry's capacity utilization rate remained around 60% in 2025, while the average gross margin stood at about 55%. Upstream inputs include silicon wafers, photoresists, lithography systems, and etching equipment, with leading suppliers such as ASML, Tokyo Electron, and Applied Materials providing essential semiconductor manufacturing tools and materials. The midstream segment covers system architecture design, RF-baseband integration, digital signal processing, mixed-signal verification, and full SoC-level functional integration, which determine compute capability, signal quality, and radar performance. Downstream customers mainly include corner radar and front 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 77GHz Automotive 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 77GHz Automotive Radar SoC market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 77GHz Automotive 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 77GHz Automotive 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 77GHz Automotive 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 77GHz Automotive 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 77GHz Automotive 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

77GHz Automotive 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 77GHz Automotive Radar SoC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 77GHz Automotive Radar SoC, with price, sales quantity, revenue, and global market share of 77GHz Automotive Radar SoC from 2021 to 2026.

Chapter 3, the 77GHz Automotive Radar SoC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 77GHz Automotive 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 77GHz Automotive 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 77GHz Automotive Radar SoC.

Chapter 14 and 15, to describe 77GHz Automotive 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 77GHz Automotive 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 77GHz Automotive 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 77GHz Automotive 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 77GHz Automotive 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 77GHz Automotive Radar SoC Market Size & Forecast

1.7.1 Global 77GHz Automotive Radar SoC Consumption Value (2021 & 2025 & 2032)

1.7.2 Global 77GHz Automotive Radar SoC Sales Quantity (2021-2032)

1.7.3 Global 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services
- 2.1.4 Texas Instruments 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services
 - 2.2.4 Infineon Technologies 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services
 - 2.3.4 Arbe Robotics 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services
 - 2.4.4 Smartmicro 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services
 - 2.5.4 Muniu Tech 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services
 - 2.6.4 WHST 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services

2.7.4 HUAWEI 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services

2.8.4 Calterah Semiconductor 77GHz Automotive 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: 77GHZ AUTOMOTIVE RADAR SOC BY MANUFACTURER

3.1 Global 77GHz Automotive Radar SoC Sales Quantity by Manufacturer (2021-2026)

3.2 Global 77GHz Automotive Radar SoC Revenue by Manufacturer (2021-2026)

3.3 Global 77GHz Automotive Radar SoC Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of 77GHz Automotive Radar SoC by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 77GHz Automotive Radar SoC Manufacturer Market Share in 2025

3.4.3 Top 6 77GHz Automotive Radar SoC Manufacturer Market Share in 2025

3.5 77GHz Automotive Radar SoC Market: Overall Company Footprint Analysis

3.5.1 77GHz Automotive Radar SoC Market: Region Footprint

3.5.2 77GHz Automotive Radar SoC Market: Company Product Type Footprint

3.5.3 77GHz Automotive 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 77GHz Automotive Radar SoC Market Size by Region

4.1.1 Global 77GHz Automotive Radar SoC Sales Quantity by Region (2021-2032)

4.1.2 Global 77GHz Automotive Radar SoC Consumption Value by Region

(2021-2032)

- 4.1.3 Global 77GHz Automotive Radar SoC Average Price by Region (2021-2032)
- 4.2 North America 77GHz Automotive Radar SoC Consumption Value (2021-2032)
- 4.3 Europe 77GHz Automotive Radar SoC Consumption Value (2021-2032)
- 4.4 Asia-Pacific 77GHz Automotive Radar SoC Consumption Value (2021-2032)
- 4.5 South America 77GHz Automotive Radar SoC Consumption Value (2021-2032)
- 4.6 Middle East & Africa 77GHz Automotive Radar SoC Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global 77GHz Automotive Radar SoC Sales Quantity by Type (2021-2032)
- 5.2 Global 77GHz Automotive Radar SoC Consumption Value by Type (2021-2032)
- 5.3 Global 77GHz Automotive Radar SoC Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global 77GHz Automotive Radar SoC Sales Quantity by Application (2021-2032)
- 6.2 Global 77GHz Automotive Radar SoC Consumption Value by Application (2021-2032)
- 6.3 Global 77GHz Automotive Radar SoC Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America 77GHz Automotive Radar SoC Sales Quantity by Type (2021-2032)
- 7.2 North America 77GHz Automotive Radar SoC Sales Quantity by Application (2021-2032)
- 7.3 North America 77GHz Automotive Radar SoC Market Size by Country
 - 7.3.1 North America 77GHz Automotive Radar SoC Sales Quantity by Country (2021-2032)
 - 7.3.2 North America 77GHz Automotive 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 77GHz Automotive Radar SoC Sales Quantity by Type (2021-2032)

8.2 Europe 77GHz Automotive Radar SoC Sales Quantity by Application (2021-2032)

8.3 Europe 77GHz Automotive Radar SoC Market Size by Country

8.3.1 Europe 77GHz Automotive Radar SoC Sales Quantity by Country (2021-2032)

8.3.2 Europe 77GHz Automotive 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 77GHz Automotive Radar SoC Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific 77GHz Automotive Radar SoC Sales Quantity by Application
(2021-2032)

9.3 Asia-Pacific 77GHz Automotive Radar SoC Market Size by Region

9.3.1 Asia-Pacific 77GHz Automotive Radar SoC Sales Quantity by Region
(2021-2032)

9.3.2 Asia-Pacific 77GHz Automotive 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 77GHz Automotive Radar SoC Sales Quantity by Type
(2021-2032)

10.2 South America 77GHz Automotive Radar SoC Sales Quantity by Application
(2021-2032)

10.3 South America 77GHz Automotive Radar SoC Market Size by Country

10.3.1 South America 77GHz Automotive Radar SoC Sales Quantity by Country
(2021-2032)

10.3.2 South America 77GHz Automotive 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 77GHz Automotive Radar SoC Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa 77GHz Automotive Radar SoC Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa 77GHz Automotive Radar SoC Market Size by Country
 - 11.3.1 Middle East & Africa 77GHz Automotive Radar SoC Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa 77GHz Automotive 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 77GHz Automotive Radar SoC Market Drivers
- 12.2 77GHz Automotive Radar SoC Market Restraints
- 12.3 77GHz Automotive 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 77GHz Automotive Radar SoC and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of 77GHz Automotive Radar SoC
- 13.3 77GHz Automotive 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 77GHz Automotive Radar SoC Typical Distributors

14.3 77GHz Automotive 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 77GHz Automotive Radar SoC Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global 77GHz Automotive Radar SoC Consumption Value by Process Node, (USD Million), 2021 & 2025 & 2032

Table 3. Global 77GHz Automotive Radar SoC Consumption Value by Grade, (USD Million), 2021 & 2025 & 2032

Table 4. Global 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services

Table 8. Texas Instruments 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services

Table 13. Infineon Technologies 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services

Table 18. Arbe Robotics 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services

Table 23. Smartmicro 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services

Table 28. Muniu Tech 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services

Table 33. WHST 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services

Table 38. HUAWEI 77GHz Automotive 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 77GHz Automotive Radar SoC Product and Services

Table 43. Calterah Semiconductor 77GHz Automotive 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 77GHz Automotive Radar SoC Sales Quantity by Manufacturer (2021-2026) & (Million Units)

Table 46. Global 77GHz Automotive Radar SoC Revenue by Manufacturer (2021-2026) & (USD Million)

Table 47. Global 77GHz Automotive Radar SoC Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 48. Market Position of Manufacturers in 77GHz Automotive Radar SoC, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 49. Head Office and 77GHz Automotive Radar SoC Production Site of Key

Manufacturer

Table 50. 77GHz Automotive Radar SoC Market: Company Product Type Footprint

Table 51. 77GHz Automotive Radar SoC Market: Company Product Application Footprint

Table 52. 77GHz Automotive Radar SoC New Market Entrants and Barriers to Market Entry

Table 53. 77GHz Automotive Radar SoC Mergers, Acquisition, Agreements, and Collaborations

Table 54. Global 77GHz Automotive Radar SoC Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 55. Global 77GHz Automotive Radar SoC Sales Quantity by Region (2021-2026) & (Million Units)

Table 56. Global 77GHz Automotive Radar SoC Sales Quantity by Region (2027-2032) & (Million Units)

Table 57. Global 77GHz Automotive Radar SoC Consumption Value by Region (2021-2026) & (USD Million)

Table 58. Global 77GHz Automotive Radar SoC Consumption Value by Region (2027-2032) & (USD Million)

Table 59. Global 77GHz Automotive Radar SoC Average Price by Region (2021-2026) & (US\$/Unit)

Table 60. Global 77GHz Automotive Radar SoC Average Price by Region (2027-2032) & (US\$/Unit)

Table 61. Global 77GHz Automotive Radar SoC Sales Quantity by Type (2021-2026) & (Million Units)

Table 62. Global 77GHz Automotive Radar SoC Sales Quantity by Type (2027-2032) & (Million Units)

Table 63. Global 77GHz Automotive Radar SoC Consumption Value by Type (2021-2026) & (USD Million)

Table 64. Global 77GHz Automotive Radar SoC Consumption Value by Type (2027-2032) & (USD Million)

Table 65. Global 77GHz Automotive Radar SoC Average Price by Type (2021-2026) & (US\$/Unit)

Table 66. Global 77GHz Automotive Radar SoC Average Price by Type (2027-2032) & (US\$/Unit)

Table 67. Global 77GHz Automotive Radar SoC Sales Quantity by Application (2021-2026) & (Million Units)

Table 68. Global 77GHz Automotive Radar SoC Sales Quantity by Application (2027-2032) & (Million Units)

Table 69. Global 77GHz Automotive Radar SoC Consumption Value by Application

(2021-2026) & (USD Million)

Table 70. Global 77GHz Automotive Radar SoC Consumption Value by Application

(2027-2032) & (USD Million)

Table 71. Global 77GHz Automotive Radar SoC Average Price by Application

(2021-2026) & (US\$/Unit)

Table 72. Global 77GHz Automotive Radar SoC Average Price by Application

(2027-2032) & (US\$/Unit)

Table 73. North America 77GHz Automotive Radar SoC Sales Quantity by Type

(2021-2026) & (Million Units)

Table 74. North America 77GHz Automotive Radar SoC Sales Quantity by Type

(2027-2032) & (Million Units)

Table 75. North America 77GHz Automotive Radar SoC Sales Quantity by Application

(2021-2026) & (Million Units)

Table 76. North America 77GHz Automotive Radar SoC Sales Quantity by Application

(2027-2032) & (Million Units)

Table 77. North America 77GHz Automotive Radar SoC Sales Quantity by Country

(2021-2026) & (Million Units)

Table 78. North America 77GHz Automotive Radar SoC Sales Quantity by Country

(2027-2032) & (Million Units)

Table 79. North America 77GHz Automotive Radar SoC Consumption Value by Country

(2021-2026) & (USD Million)

Table 80. North America 77GHz Automotive Radar SoC Consumption Value by Country

(2027-2032) & (USD Million)

Table 81. Europe 77GHz Automotive Radar SoC Sales Quantity by Type (2021-2026) & (Million Units)

Table 82. Europe 77GHz Automotive Radar SoC Sales Quantity by Type (2027-2032) & (Million Units)

Table 83. Europe 77GHz Automotive Radar SoC Sales Quantity by Application (2021-2026) & (Million Units)

Table 84. Europe 77GHz Automotive Radar SoC Sales Quantity by Application (2027-2032) & (Million Units)

Table 85. Europe 77GHz Automotive Radar SoC Sales Quantity by Country (2021-2026) & (Million Units)

Table 86. Europe 77GHz Automotive Radar SoC Sales Quantity by Country (2027-2032) & (Million Units)

Table 87. Europe 77GHz Automotive Radar SoC Consumption Value by Country (2021-2026) & (USD Million)

Table 88. Europe 77GHz Automotive Radar SoC Consumption Value by Country (2027-2032) & (USD Million)

Table 89. Asia-Pacific 77GHz Automotive Radar SoC Sales Quantity by Type (2021-2026) & (Million Units)

Table 90. Asia-Pacific 77GHz Automotive Radar SoC Sales Quantity by Type (2027-2032) & (Million Units)

Table 91. Asia-Pacific 77GHz Automotive Radar SoC Sales Quantity by Application (2021-2026) & (Million Units)

Table 92. Asia-Pacific 77GHz Automotive Radar SoC Sales Quantity by Application (2027-2032) & (Million Units)

Table 93. Asia-Pacific 77GHz Automotive Radar SoC Sales Quantity by Region (2021-2026) & (Million Units)

Table 94. Asia-Pacific 77GHz Automotive Radar SoC Sales Quantity by Region (2027-2032) & (Million Units)

Table 95. Asia-Pacific 77GHz Automotive Radar SoC Consumption Value by Region (2021-2026) & (USD Million)

Table 96. Asia-Pacific 77GHz Automotive Radar SoC Consumption Value by Region (2027-2032) & (USD Million)

Table 97. South America 77GHz Automotive Radar SoC Sales Quantity by Type (2021-2026) & (Million Units)

Table 98. South America 77GHz Automotive Radar SoC Sales Quantity by Type (2027-2032) & (Million Units)

Table 99. South America 77GHz Automotive Radar SoC Sales Quantity by Application (2021-2026) & (Million Units)

Table 100. South America 77GHz Automotive Radar SoC Sales Quantity by Application (2027-2032) & (Million Units)

Table 101. South America 77GHz Automotive Radar SoC Sales Quantity by Country (2021-2026) & (Million Units)

Table 102. South America 77GHz Automotive Radar SoC Sales Quantity by Country (2027-2032) & (Million Units)

Table 103. South America 77GHz Automotive Radar SoC Consumption Value by Country (2021-2026) & (USD Million)

Table 104. South America 77GHz Automotive Radar SoC Consumption Value by Country (2027-2032) & (USD Million)

Table 105. Middle East & Africa 77GHz Automotive Radar SoC Sales Quantity by Type (2021-2026) & (Million Units)

Table 106. Middle East & Africa 77GHz Automotive Radar SoC Sales Quantity by Type (2027-2032) & (Million Units)

Table 107. Middle East & Africa 77GHz Automotive Radar SoC Sales Quantity by Application (2021-2026) & (Million Units)

Table 108. Middle East & Africa 77GHz Automotive Radar SoC Sales Quantity by

Application (2027-2032) & (Million Units)

Table 109. Middle East & Africa 77GHz Automotive Radar SoC Sales Quantity by Country (2021-2026) & (Million Units)

Table 110. Middle East & Africa 77GHz Automotive Radar SoC Sales Quantity by Country (2027-2032) & (Million Units)

Table 111. Middle East & Africa 77GHz Automotive Radar SoC Consumption Value by Country (2021-2026) & (USD Million)

Table 112. Middle East & Africa 77GHz Automotive Radar SoC Consumption Value by Country (2027-2032) & (USD Million)

Table 113. 77GHz Automotive Radar SoC Raw Material

Table 114. Key Manufacturers of 77GHz Automotive Radar SoC Raw Materials

Table 115. 77GHz Automotive Radar SoC Typical Distributors

Table 116. 77GHz Automotive Radar SoC Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. 77GHz Automotive Radar SoC Picture

Figure 2. Global 77GHz Automotive Radar SoC Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global 77GHz Automotive 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 77GHz Automotive Radar SoC Revenue by Process Node, (USD Million), 2021 & 2025 & 2032

Figure 8. Global 77GHz Automotive 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 77GHz Automotive Radar SoC Revenue by Grade, (USD Million), 2021 & 2025 & 2032

Figure 13. Global 77GHz Automotive 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 77GHz Automotive Radar SoC Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 18. Global 77GHz Automotive 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 77GHz Automotive Radar SoC Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 23. Global 77GHz Automotive Radar SoC Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 24. Global 77GHz Automotive Radar SoC Sales Quantity (2021-2032) & (Million Units)

Figure 25. Global 77GHz Automotive Radar SoC Price (2021-2032) & (US\$/Unit)

Figure 26. Global 77GHz Automotive Radar SoC Sales Quantity Market Share by Manufacturer in 2025

Figure 27. Global 77GHz Automotive Radar SoC Revenue Market Share by Manufacturer in 2025

Figure 28. Producer Shipments of 77GHz Automotive Radar SoC by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 29. Top 3 77GHz Automotive Radar SoC Manufacturer (Revenue) Market Share in 2025

Figure 30. Top 6 77GHz Automotive Radar SoC Manufacturer (Revenue) Market Share in 2025

Figure 31. Global 77GHz Automotive Radar SoC Sales Quantity Market Share by Region (2021-2032)

Figure 32. Global 77GHz Automotive Radar SoC Consumption Value Market Share by Region (2021-2032)

Figure 33. North America 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 34. Europe 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 35. Asia-Pacific 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 36. South America 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 37. Middle East & Africa 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 38. Global 77GHz Automotive Radar SoC Sales Quantity Market Share by Type (2021-2032)

Figure 39. Global 77GHz Automotive Radar SoC Consumption Value Market Share by Type (2021-2032)

Figure 40. Global 77GHz Automotive Radar SoC Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. Global 77GHz Automotive Radar SoC Sales Quantity Market Share by Application (2021-2032)

Figure 42. Global 77GHz Automotive Radar SoC Revenue Market Share by Application (2021-2032)

Figure 43. Global 77GHz Automotive Radar SoC Average Price by Application (2021-2032) & (US\$/Unit)

Figure 44. North America 77GHz Automotive Radar SoC Sales Quantity Market Share by Type (2021-2032)

Figure 45. North America 77GHz Automotive Radar SoC Sales Quantity Market Share

by Application (2021-2032)

Figure 46. North America 77GHz Automotive Radar SoC Sales Quantity Market Share by Country (2021-2032)

Figure 47. North America 77GHz Automotive Radar SoC Consumption Value Market Share by Country (2021-2032)

Figure 48. United States 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 49. Canada 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 50. Mexico 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 51. Europe 77GHz Automotive Radar SoC Sales Quantity Market Share by Type (2021-2032)

Figure 52. Europe 77GHz Automotive Radar SoC Sales Quantity Market Share by Application (2021-2032)

Figure 53. Europe 77GHz Automotive Radar SoC Sales Quantity Market Share by Country (2021-2032)

Figure 54. Europe 77GHz Automotive Radar SoC Consumption Value Market Share by Country (2021-2032)

Figure 55. Germany 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 56. France 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 57. United Kingdom 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 58. Russia 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 59. Italy 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 60. Asia-Pacific 77GHz Automotive Radar SoC Sales Quantity Market Share by Type (2021-2032)

Figure 61. Asia-Pacific 77GHz Automotive Radar SoC Sales Quantity Market Share by Application (2021-2032)

Figure 62. Asia-Pacific 77GHz Automotive Radar SoC Sales Quantity Market Share by Region (2021-2032)

Figure 63. Asia-Pacific 77GHz Automotive Radar SoC Consumption Value Market Share by Region (2021-2032)

Figure 64. China 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 65. Japan 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 66. South Korea 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 67. India 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 68. Southeast Asia 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 69. Australia 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 70. South America 77GHz Automotive Radar SoC Sales Quantity Market Share by Type (2021-2032)

Figure 71. South America 77GHz Automotive Radar SoC Sales Quantity Market Share by Application (2021-2032)

Figure 72. South America 77GHz Automotive Radar SoC Sales Quantity Market Share by Country (2021-2032)

Figure 73. South America 77GHz Automotive Radar SoC Consumption Value Market Share by Country (2021-2032)

Figure 74. Brazil 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 75. Argentina 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 76. Middle East & Africa 77GHz Automotive Radar SoC Sales Quantity Market Share by Type (2021-2032)

Figure 77. Middle East & Africa 77GHz Automotive Radar SoC Sales Quantity Market Share by Application (2021-2032)

Figure 78. Middle East & Africa 77GHz Automotive Radar SoC Sales Quantity Market Share by Country (2021-2032)

Figure 79. Middle East & Africa 77GHz Automotive Radar SoC Consumption Value Market Share by Country (2021-2032)

Figure 80. Turkey 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 81. Egypt 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 82. Saudi Arabia 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 83. South Africa 77GHz Automotive Radar SoC Consumption Value (2021-2032) & (USD Million)

Figure 84. 77GHz Automotive Radar SoC Market Drivers

Figure 85. 77GHz Automotive Radar SoC Market Restraints

Figure 86. 77GHz Automotive Radar SoC Market Trends

Figure 87. Porters Five Forces Analysis

Figure 88. Manufacturing Cost Structure Analysis of 77GHz Automotive Radar SoC in 2025

Figure 89. Manufacturing Process Analysis of 77GHz Automotive Radar SoC

Figure 90. 77GHz Automotive 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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