

Global 77GHz mmWave Radar Chip Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/GACD0F1BCBF5EN.html>

Date: September 2025

Pages: 86

Price: US\$ 3,132.00 (Single User License)

ID: GACD0F1BCBF5EN

Abstracts

According to our (Global Info Research) latest study, the global 77GHz mmWave Radar Chip market size was valued at US\$ 669 million in 2024 and is forecast to a readjusted size of USD 1905 million by 2031 with a CAGR of 15.9% during review period.

The 77GHz millimeter wave radar chip is a high-frequency chip designed for automotive radar systems, with an operating frequency range of 76GHz to 81GHz. This chip transmits and receives millimeter wave signals and uses the principle of electromagnetic wave reflection to accurately measure the distance, speed and direction of target objects, providing key environmental perception data for autonomous driving and advanced driver assistance systems (ADAS).

As autonomous driving technology evolves from Level 2 to Levels 3/4, the demand for high-precision, long-range sensing capabilities increases significantly. The 77GHz millimeter-wave radar, with its all-weather operation, strong anti-interference, and long detection range (>200 meters), has become one of the core sensors in this field, leading to a sustained rise in market demand. Simultaneously, China has allocated the 76-79GHz frequency band specifically for automotive radar applications, while Europe and the United States are also promoting the standardization of the 77GHz frequency band through regulations. These policy supports not only accelerate the technological transition from 24GHz to 77GHz radar but also expand market demand by standardizing radio management and clarifying the mainstream role of 77GHz radar in intelligent driving. The combined forces of technological advancement and policy support have further solidified the market's growth trajectory, making the 77GHz millimeter-wave radar a critical component in the autonomous driving ecosystem. Thereby expanding the demand for chips.

This report is a detailed and comprehensive analysis for global 77GHz mmWave Radar Chip 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 mmWave Radar Chip market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 77GHz mmWave Radar Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 77GHz mmWave Radar Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 77GHz mmWave Radar Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 mmWave Radar Chip
- 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 mmWave Radar Chip 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 NXP, Infineon Technologies, STMicroelectronics, Mistic Microelectronics, Texas Instruments, Calterah, CETC No.38 Research Institute, Skyrelay, ANDAR, ZENITAI, etc.

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

Market Segmentation

77GHz mmWave Radar Chip market is split by Type and by Application. For the period 2020-2031, 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

RF CMOS Process

SiGe BiCMOS Process

Market segment by Application

Automotive Sector

Industrial Sectors

Other

Major players covered

NXP

Infineon Technologies

STMicroelectronics

Misic Microelectronics

Texas Instruments

Calterah

CETC No.38 Research Institute

Skyrelay

ANDAR

ZENITAI

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 mmWave Radar Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 77GHz mmWave Radar Chip, with price, sales quantity, revenue, and global market share of 77GHz mmWave Radar Chip from 2020 to 2025.

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

Chapter 4, the 77GHz mmWave Radar Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and 77GHz mmWave Radar Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 mmWave Radar Chip.

Chapter 14 and 15, to describe 77GHz mmWave Radar Chip 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 mmWave Radar Chip Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 RF CMOS Process

1.3.3 SiGe BiCMOS Process

1.4 Market Analysis by Application

1.4.1 Overview: Global 77GHz mmWave Radar Chip Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Automotive Sector

1.4.3 Industrial Sectors

1.4.4 Other

1.5 Global 77GHz mmWave Radar Chip Market Size & Forecast

1.5.1 Global 77GHz mmWave Radar Chip Consumption Value (2020 & 2024 & 2031)

1.5.2 Global 77GHz mmWave Radar Chip Sales Quantity (2020-2031)

1.5.3 Global 77GHz mmWave Radar Chip Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 NXP

2.1.1 NXP Details

2.1.2 NXP Major Business

2.1.3 NXP 77GHz mmWave Radar Chip Product and Services

2.1.4 NXP 77GHz mmWave Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 NXP 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 mmWave Radar Chip Product and Services

2.2.4 Infineon Technologies 77GHz mmWave Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 Infineon Technologies Recent Developments/Updates

2.3 STMicroelectronics

- 2.3.1 STMicroelectronics Details
- 2.3.2 STMicroelectronics Major Business
- 2.3.3 STMicroelectronics 77GHz mmWave Radar Chip Product and Services
- 2.3.4 STMicroelectronics 77GHz mmWave Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.3.5 STMicroelectronics Recent Developments/Updates
- 2.4 Mistic Microelectronics
 - 2.4.1 Mistic Microelectronics Details
 - 2.4.2 Mistic Microelectronics Major Business
 - 2.4.3 Mistic Microelectronics 77GHz mmWave Radar Chip Product and Services
 - 2.4.4 Mistic Microelectronics 77GHz mmWave Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.4.5 Mistic Microelectronics Recent Developments/Updates
- 2.5 Texas Instruments
 - 2.5.1 Texas Instruments Details
 - 2.5.2 Texas Instruments Major Business
 - 2.5.3 Texas Instruments 77GHz mmWave Radar Chip Product and Services
 - 2.5.4 Texas Instruments 77GHz mmWave Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.5.5 Texas Instruments Recent Developments/Updates
- 2.6 Calterah
 - 2.6.1 Calterah Details
 - 2.6.2 Calterah Major Business
 - 2.6.3 Calterah 77GHz mmWave Radar Chip Product and Services
 - 2.6.4 Calterah 77GHz mmWave Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.6.5 Calterah Recent Developments/Updates
- 2.7 CETC No.38 Research Institute
 - 2.7.1 CETC No.38 Research Institute Details
 - 2.7.2 CETC No.38 Research Institute Major Business
 - 2.7.3 CETC No.38 Research Institute 77GHz mmWave Radar Chip Product and Services
 - 2.7.4 CETC No.38 Research Institute 77GHz mmWave Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.7.5 CETC No.38 Research Institute Recent Developments/Updates
- 2.8 Skyrelay
 - 2.8.1 Skyrelay Details
 - 2.8.2 Skyrelay Major Business
 - 2.8.3 Skyrelay 77GHz mmWave Radar Chip Product and Services

2.8.4 Skyrelay 77GHz mmWave Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.8.5 Skyrelay Recent Developments/Updates

2.9 ANDAR

2.9.1 ANDAR Details

2.9.2 ANDAR Major Business

2.9.3 ANDAR 77GHz mmWave Radar Chip Product and Services

2.9.4 ANDAR 77GHz mmWave Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.9.5 ANDAR Recent Developments/Updates

2.10 ZENITAI

2.10.1 ZENITAI Details

2.10.2 ZENITAI Major Business

2.10.3 ZENITAI 77GHz mmWave Radar Chip Product and Services

2.10.4 ZENITAI 77GHz mmWave Radar Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.10.5 ZENITAI Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: 77GHZ MMWAVE RADAR CHIP BY MANUFACTURER

3.1 Global 77GHz mmWave Radar Chip Sales Quantity by Manufacturer (2020-2025)

3.2 Global 77GHz mmWave Radar Chip Revenue by Manufacturer (2020-2025)

3.3 Global 77GHz mmWave Radar Chip Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of 77GHz mmWave Radar Chip by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 77GHz mmWave Radar Chip Manufacturer Market Share in 2024

3.4.3 Top 6 77GHz mmWave Radar Chip Manufacturer Market Share in 2024

3.5 77GHz mmWave Radar Chip Market: Overall Company Footprint Analysis

3.5.1 77GHz mmWave Radar Chip Market: Region Footprint

3.5.2 77GHz mmWave Radar Chip Market: Company Product Type Footprint

3.5.3 77GHz mmWave Radar Chip 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 mmWave Radar Chip Market Size by Region

- 4.1.1 Global 77GHz mmWave Radar Chip Sales Quantity by Region (2020-2031)
- 4.1.2 Global 77GHz mmWave Radar Chip Consumption Value by Region (2020-2031)
- 4.1.3 Global 77GHz mmWave Radar Chip Average Price by Region (2020-2031)
- 4.2 North America 77GHz mmWave Radar Chip Consumption Value (2020-2031)
- 4.3 Europe 77GHz mmWave Radar Chip Consumption Value (2020-2031)
- 4.4 Asia-Pacific 77GHz mmWave Radar Chip Consumption Value (2020-2031)
- 4.5 South America 77GHz mmWave Radar Chip Consumption Value (2020-2031)
- 4.6 Middle East & Africa 77GHz mmWave Radar Chip Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

- 5.1 Global 77GHz mmWave Radar Chip Sales Quantity by Type (2020-2031)
- 5.2 Global 77GHz mmWave Radar Chip Consumption Value by Type (2020-2031)
- 5.3 Global 77GHz mmWave Radar Chip Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global 77GHz mmWave Radar Chip Sales Quantity by Application (2020-2031)
- 6.2 Global 77GHz mmWave Radar Chip Consumption Value by Application (2020-2031)
- 6.3 Global 77GHz mmWave Radar Chip Average Price by Application (2020-2031)

7 NORTH AMERICA

- 7.1 North America 77GHz mmWave Radar Chip Sales Quantity by Type (2020-2031)
- 7.2 North America 77GHz mmWave Radar Chip Sales Quantity by Application (2020-2031)
- 7.3 North America 77GHz mmWave Radar Chip Market Size by Country
 - 7.3.1 North America 77GHz mmWave Radar Chip Sales Quantity by Country (2020-2031)
 - 7.3.2 North America 77GHz mmWave Radar Chip Consumption Value by Country (2020-2031)
 - 7.3.3 United States Market Size and Forecast (2020-2031)
 - 7.3.4 Canada Market Size and Forecast (2020-2031)
 - 7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

- 8.1 Europe 77GHz mmWave Radar Chip Sales Quantity by Type (2020-2031)

8.2 Europe 77GHz mmWave Radar Chip Sales Quantity by Application (2020-2031)

8.3 Europe 77GHz mmWave Radar Chip Market Size by Country

8.3.1 Europe 77GHz mmWave Radar Chip Sales Quantity by Country (2020-2031)

8.3.2 Europe 77GHz mmWave Radar Chip Consumption Value by Country
(2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

9.1 Asia-Pacific 77GHz mmWave Radar Chip Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific 77GHz mmWave Radar Chip Sales Quantity by Application
(2020-2031)

9.3 Asia-Pacific 77GHz mmWave Radar Chip Market Size by Region

9.3.1 Asia-Pacific 77GHz mmWave Radar Chip Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific 77GHz mmWave Radar Chip Consumption Value by Region
(2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

10.1 South America 77GHz mmWave Radar Chip Sales Quantity by Type (2020-2031)

10.2 South America 77GHz mmWave Radar Chip Sales Quantity by Application
(2020-2031)

10.3 South America 77GHz mmWave Radar Chip Market Size by Country

10.3.1 South America 77GHz mmWave Radar Chip Sales Quantity by Country
(2020-2031)

10.3.2 South America 77GHz mmWave Radar Chip Consumption Value by Country
(2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa 77GHz mmWave Radar Chip Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa 77GHz mmWave Radar Chip Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa 77GHz mmWave Radar Chip Market Size by Country

11.3.1 Middle East & Africa 77GHz mmWave Radar Chip Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa 77GHz mmWave Radar Chip Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

12.1 77GHz mmWave Radar Chip Market Drivers

12.2 77GHz mmWave Radar Chip Market Restraints

12.3 77GHz mmWave Radar Chip 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 mmWave Radar Chip and Key Manufacturers

13.2 Manufacturing Costs Percentage of 77GHz mmWave Radar Chip

13.3 77GHz mmWave Radar Chip 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 mmWave Radar Chip Typical Distributors

14.3 77GHz mmWave Radar Chip 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 mmWave Radar Chip Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global 77GHz mmWave Radar Chip Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. NXP Basic Information, Manufacturing Base and Competitors

Table 4. NXP Major Business

Table 5. NXP 77GHz mmWave Radar Chip Product and Services

Table 6. NXP 77GHz mmWave Radar Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. NXP Recent Developments/Updates

Table 8. Infineon Technologies Basic Information, Manufacturing Base and Competitors

Table 9. Infineon Technologies Major Business

Table 10. Infineon Technologies 77GHz mmWave Radar Chip Product and Services

Table 11. Infineon Technologies 77GHz mmWave Radar Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Infineon Technologies Recent Developments/Updates

Table 13. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 14. STMicroelectronics Major Business

Table 15. STMicroelectronics 77GHz mmWave Radar Chip Product and Services

Table 16. STMicroelectronics 77GHz mmWave Radar Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. STMicroelectronics Recent Developments/Updates

Table 18. Mistic Microelectronics Basic Information, Manufacturing Base and Competitors

Table 19. Mistic Microelectronics Major Business

Table 20. Mistic Microelectronics 77GHz mmWave Radar Chip Product and Services

Table 21. Mistic Microelectronics 77GHz mmWave Radar Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Mistic Microelectronics Recent Developments/Updates

Table 23. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 24. Texas Instruments Major Business

Table 25. Texas Instruments 77GHz mmWave Radar Chip Product and Services

Table 26. Texas Instruments 77GHz mmWave Radar Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Texas Instruments Recent Developments/Updates

Table 28. Calterah Basic Information, Manufacturing Base and Competitors

Table 29. Calterah Major Business

Table 30. Calterah 77GHz mmWave Radar Chip Product and Services

Table 31. Calterah 77GHz mmWave Radar Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Calterah Recent Developments/Updates

Table 33. CETC No.38 Research Institute Basic Information, Manufacturing Base and Competitors

Table 34. CETC No.38 Research Institute Major Business

Table 35. CETC No.38 Research Institute 77GHz mmWave Radar Chip Product and Services

Table 36. CETC No.38 Research Institute 77GHz mmWave Radar Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. CETC No.38 Research Institute Recent Developments/Updates

Table 38. Skyrelay Basic Information, Manufacturing Base and Competitors

Table 39. Skyrelay Major Business

Table 40. Skyrelay 77GHz mmWave Radar Chip Product and Services

Table 41. Skyrelay 77GHz mmWave Radar Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Skyrelay Recent Developments/Updates

Table 43. ANDAR Basic Information, Manufacturing Base and Competitors

Table 44. ANDAR Major Business

Table 45. ANDAR 77GHz mmWave Radar Chip Product and Services

Table 46. ANDAR 77GHz mmWave Radar Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. ANDAR Recent Developments/Updates

Table 48. ZENITAI Basic Information, Manufacturing Base and Competitors

Table 49. ZENITAI Major Business

Table 50. ZENITAI 77GHz mmWave Radar Chip Product and Services

Table 51. ZENITAI 77GHz mmWave Radar Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. ZENITAI Recent Developments/Updates

Table 53. Global 77GHz mmWave Radar Chip Sales Quantity by Manufacturer (2020-2025) & (K Units)

Table 54. Global 77GHz mmWave Radar Chip Revenue by Manufacturer (2020-2025) & (USD Million)

Table 55. Global 77GHz mmWave Radar Chip Average Price by Manufacturer (2020-2025) & (US\$/Unit)

Table 56. Market Position of Manufacturers in 77GHz mmWave Radar Chip, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 57. Head Office and 77GHz mmWave Radar Chip Production Site of Key Manufacturer

Table 58. 77GHz mmWave Radar Chip Market: Company Product Type Footprint

Table 59. 77GHz mmWave Radar Chip Market: Company Product Application Footprint

Table 60. 77GHz mmWave Radar Chip New Market Entrants and Barriers to Market Entry

Table 61. 77GHz mmWave Radar Chip Mergers, Acquisition, Agreements, and Collaborations

Table 62. Global 77GHz mmWave Radar Chip Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 63. Global 77GHz mmWave Radar Chip Sales Quantity by Region (2020-2025) & (K Units)

Table 64. Global 77GHz mmWave Radar Chip Sales Quantity by Region (2026-2031) & (K Units)

Table 65. Global 77GHz mmWave Radar Chip Consumption Value by Region (2020-2025) & (USD Million)

Table 66. Global 77GHz mmWave Radar Chip Consumption Value by Region (2026-2031) & (USD Million)

Table 67. Global 77GHz mmWave Radar Chip Average Price by Region (2020-2025) & (US\$/Unit)

Table 68. Global 77GHz mmWave Radar Chip Average Price by Region (2026-2031) & (US\$/Unit)

Table 69. Global 77GHz mmWave Radar Chip Sales Quantity by Type (2020-2025) & (K Units)

Table 70. Global 77GHz mmWave Radar Chip Sales Quantity by Type (2026-2031) & (K Units)

Table 71. Global 77GHz mmWave Radar Chip Consumption Value by Type (2020-2025) & (USD Million)

Table 72. Global 77GHz mmWave Radar Chip Consumption Value by Type (2026-2031) & (USD Million)

Table 73. Global 77GHz mmWave Radar Chip Average Price by Type (2020-2025) & (US\$/Unit)

Table 74. Global 77GHz mmWave Radar Chip Average Price by Type (2026-2031) &

(US\$/Unit)

Table 75. Global 77GHz mmWave Radar Chip Sales Quantity by Application (2020-2025) & (K Units)

Table 76. Global 77GHz mmWave Radar Chip Sales Quantity by Application (2026-2031) & (K Units)

Table 77. Global 77GHz mmWave Radar Chip Consumption Value by Application (2020-2025) & (USD Million)

Table 78. Global 77GHz mmWave Radar Chip Consumption Value by Application (2026-2031) & (USD Million)

Table 79. Global 77GHz mmWave Radar Chip Average Price by Application (2020-2025) & (US\$/Unit)

Table 80. Global 77GHz mmWave Radar Chip Average Price by Application (2026-2031) & (US\$/Unit)

Table 81. North America 77GHz mmWave Radar Chip Sales Quantity by Type (2020-2025) & (K Units)

Table 82. North America 77GHz mmWave Radar Chip Sales Quantity by Type (2026-2031) & (K Units)

Table 83. North America 77GHz mmWave Radar Chip Sales Quantity by Application (2020-2025) & (K Units)

Table 84. North America 77GHz mmWave Radar Chip Sales Quantity by Application (2026-2031) & (K Units)

Table 85. North America 77GHz mmWave Radar Chip Sales Quantity by Country (2020-2025) & (K Units)

Table 86. North America 77GHz mmWave Radar Chip Sales Quantity by Country (2026-2031) & (K Units)

Table 87. North America 77GHz mmWave Radar Chip Consumption Value by Country (2020-2025) & (USD Million)

Table 88. North America 77GHz mmWave Radar Chip Consumption Value by Country (2026-2031) & (USD Million)

Table 89. Europe 77GHz mmWave Radar Chip Sales Quantity by Type (2020-2025) & (K Units)

Table 90. Europe 77GHz mmWave Radar Chip Sales Quantity by Type (2026-2031) & (K Units)

Table 91. Europe 77GHz mmWave Radar Chip Sales Quantity by Application (2020-2025) & (K Units)

Table 92. Europe 77GHz mmWave Radar Chip Sales Quantity by Application (2026-2031) & (K Units)

Table 93. Europe 77GHz mmWave Radar Chip Sales Quantity by Country (2020-2025) & (K Units)

Table 94. Europe 77GHz mmWave Radar Chip Sales Quantity by Country (2026-2031) & (K Units)

Table 95. Europe 77GHz mmWave Radar Chip Consumption Value by Country (2020-2025) & (USD Million)

Table 96. Europe 77GHz mmWave Radar Chip Consumption Value by Country (2026-2031) & (USD Million)

Table 97. Asia-Pacific 77GHz mmWave Radar Chip Sales Quantity by Type (2020-2025) & (K Units)

Table 98. Asia-Pacific 77GHz mmWave Radar Chip Sales Quantity by Type (2026-2031) & (K Units)

Table 99. Asia-Pacific 77GHz mmWave Radar Chip Sales Quantity by Application (2020-2025) & (K Units)

Table 100. Asia-Pacific 77GHz mmWave Radar Chip Sales Quantity by Application (2026-2031) & (K Units)

Table 101. Asia-Pacific 77GHz mmWave Radar Chip Sales Quantity by Region (2020-2025) & (K Units)

Table 102. Asia-Pacific 77GHz mmWave Radar Chip Sales Quantity by Region (2026-2031) & (K Units)

Table 103. Asia-Pacific 77GHz mmWave Radar Chip Consumption Value by Region (2020-2025) & (USD Million)

Table 104. Asia-Pacific 77GHz mmWave Radar Chip Consumption Value by Region (2026-2031) & (USD Million)

Table 105. South America 77GHz mmWave Radar Chip Sales Quantity by Type (2020-2025) & (K Units)

Table 106. South America 77GHz mmWave Radar Chip Sales Quantity by Type (2026-2031) & (K Units)

Table 107. South America 77GHz mmWave Radar Chip Sales Quantity by Application (2020-2025) & (K Units)

Table 108. South America 77GHz mmWave Radar Chip Sales Quantity by Application (2026-2031) & (K Units)

Table 109. South America 77GHz mmWave Radar Chip Sales Quantity by Country (2020-2025) & (K Units)

Table 110. South America 77GHz mmWave Radar Chip Sales Quantity by Country (2026-2031) & (K Units)

Table 111. South America 77GHz mmWave Radar Chip Consumption Value by Country (2020-2025) & (USD Million)

Table 112. South America 77GHz mmWave Radar Chip Consumption Value by Country (2026-2031) & (USD Million)

Table 113. Middle East & Africa 77GHz mmWave Radar Chip Sales Quantity by Type

(2020-2025) & (K Units)

Table 114. Middle East & Africa 77GHz mmWave Radar Chip Sales Quantity by Type
(2026-2031) & (K Units)

Table 115. Middle East & Africa 77GHz mmWave Radar Chip Sales Quantity by
Application (2020-2025) & (K Units)

Table 116. Middle East & Africa 77GHz mmWave Radar Chip Sales Quantity by
Application (2026-2031) & (K Units)

Table 117. Middle East & Africa 77GHz mmWave Radar Chip Sales Quantity by
Country (2020-2025) & (K Units)

Table 118. Middle East & Africa 77GHz mmWave Radar Chip Sales Quantity by
Country (2026-2031) & (K Units)

Table 119. Middle East & Africa 77GHz mmWave Radar Chip Consumption Value by
Country (2020-2025) & (USD Million)

Table 120. Middle East & Africa 77GHz mmWave Radar Chip Consumption Value by
Country (2026-2031) & (USD Million)

Table 121. 77GHz mmWave Radar Chip Raw Material

Table 122. Key Manufacturers of 77GHz mmWave Radar Chip Raw Materials

Table 123. 77GHz mmWave Radar Chip Typical Distributors

Table 124. 77GHz mmWave Radar Chip Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. 77GHz mmWave Radar Chip Picture

Figure 2. Global 77GHz mmWave Radar Chip Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global 77GHz mmWave Radar Chip Revenue Market Share by Type in 2024

Figure 4. RF CMOS Process Examples

Figure 5. SiGe BiCMOS Process Examples

Figure 6. Global 77GHz mmWave Radar Chip Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global 77GHz mmWave Radar Chip Revenue Market Share by Application in 2024

Figure 8. Automotive Sector Examples

Figure 9. Industrial Sectors Examples

Figure 10. Other Examples

Figure 11. Global 77GHz mmWave Radar Chip Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 12. Global 77GHz mmWave Radar Chip Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 13. Global 77GHz mmWave Radar Chip Sales Quantity (2020-2031) & (K Units)

Figure 14. Global 77GHz mmWave Radar Chip Price (2020-2031) & (US\$/Unit)

Figure 15. Global 77GHz mmWave Radar Chip Sales Quantity Market Share by Manufacturer in 2024

Figure 16. Global 77GHz mmWave Radar Chip Revenue Market Share by Manufacturer in 2024

Figure 17. Producer Shipments of 77GHz mmWave Radar Chip by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 18. Top 3 77GHz mmWave Radar Chip Manufacturer (Revenue) Market Share in 2024

Figure 19. Top 6 77GHz mmWave Radar Chip Manufacturer (Revenue) Market Share in 2024

Figure 20. Global 77GHz mmWave Radar Chip Sales Quantity Market Share by Region (2020-2031)

Figure 21. Global 77GHz mmWave Radar Chip Consumption Value Market Share by Region (2020-2031)

Figure 22. North America 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 23. Europe 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 24. Asia-Pacific 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 25. South America 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 26. Middle East & Africa 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 27. Global 77GHz mmWave Radar Chip Sales Quantity Market Share by Type (2020-2031)

Figure 28. Global 77GHz mmWave Radar Chip Consumption Value Market Share by Type (2020-2031)

Figure 29. Global 77GHz mmWave Radar Chip Average Price by Type (2020-2031) & (US\$/Unit)

Figure 30. Global 77GHz mmWave Radar Chip Sales Quantity Market Share by Application (2020-2031)

Figure 31. Global 77GHz mmWave Radar Chip Revenue Market Share by Application (2020-2031)

Figure 32. Global 77GHz mmWave Radar Chip Average Price by Application (2020-2031) & (US\$/Unit)

Figure 33. North America 77GHz mmWave Radar Chip Sales Quantity Market Share by Type (2020-2031)

Figure 34. North America 77GHz mmWave Radar Chip Sales Quantity Market Share by Application (2020-2031)

Figure 35. North America 77GHz mmWave Radar Chip Sales Quantity Market Share by Country (2020-2031)

Figure 36. North America 77GHz mmWave Radar Chip Consumption Value Market Share by Country (2020-2031)

Figure 37. United States 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 38. Canada 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 39. Mexico 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 40. Europe 77GHz mmWave Radar Chip Sales Quantity Market Share by Type (2020-2031)

Figure 41. Europe 77GHz mmWave Radar Chip Sales Quantity Market Share by Application (2020-2031)

Figure 42. Europe 77GHz mmWave Radar Chip Sales Quantity Market Share by

Country (2020-2031)

Figure 43. Europe 77GHz mmWave Radar Chip Consumption Value Market Share by Country (2020-2031)

Figure 44. Germany 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 45. France 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 46. United Kingdom 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 47. Russia 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 48. Italy 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 49. Asia-Pacific 77GHz mmWave Radar Chip Sales Quantity Market Share by Type (2020-2031)

Figure 50. Asia-Pacific 77GHz mmWave Radar Chip Sales Quantity Market Share by Application (2020-2031)

Figure 51. Asia-Pacific 77GHz mmWave Radar Chip Sales Quantity Market Share by Region (2020-2031)

Figure 52. Asia-Pacific 77GHz mmWave Radar Chip Consumption Value Market Share by Region (2020-2031)

Figure 53. China 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 54. Japan 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 55. South Korea 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 56. India 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 57. Southeast Asia 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 58. Australia 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 59. South America 77GHz mmWave Radar Chip Sales Quantity Market Share by Type (2020-2031)

Figure 60. South America 77GHz mmWave Radar Chip Sales Quantity Market Share by Application (2020-2031)

Figure 61. South America 77GHz mmWave Radar Chip Sales Quantity Market Share by Country (2020-2031)

Figure 62. South America 77GHz mmWave Radar Chip Consumption Value Market Share by Country (2020-2031)

Figure 63. Brazil 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 64. Argentina 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 65. Middle East & Africa 77GHz mmWave Radar Chip Sales Quantity Market Share by Type (2020-2031)

Figure 66. Middle East & Africa 77GHz mmWave Radar Chip Sales Quantity Market Share by Application (2020-2031)

Figure 67. Middle East & Africa 77GHz mmWave Radar Chip Sales Quantity Market Share by Country (2020-2031)

Figure 68. Middle East & Africa 77GHz mmWave Radar Chip Consumption Value Market Share by Country (2020-2031)

Figure 69. Turkey 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 70. Egypt 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 71. Saudi Arabia 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 72. South Africa 77GHz mmWave Radar Chip Consumption Value (2020-2031) & (USD Million)

Figure 73. 77GHz mmWave Radar Chip Market Drivers

Figure 74. 77GHz mmWave Radar Chip Market Restraints

Figure 75. 77GHz mmWave Radar Chip Market Trends

Figure 76. Porters Five Forces Analysis

Figure 77. Manufacturing Cost Structure Analysis of 77GHz mmWave Radar Chip in 2024

Figure 78. Manufacturing Process Analysis of 77GHz mmWave Radar Chip

Figure 79. 77GHz mmWave Radar Chip Industrial Chain

Figure 80. Sales Channel: Direct to End-User vs Distributors

Figure 81. Direct Channel Pros & Cons

Figure 82. Indirect Channel Pros & Cons

Figure 83. Methodology

Figure 84. Research Process and Data Source

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