

Global 77GHz Automotive mmWave Radar Market Growth 2026-2032

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Abstracts

The global 77GHz Automotive mmWave Radar market size is predicted to grow from US\$ 15960 million in 2025 to US\$ 59510 million in 2032; it is expected to grow at a CAGR of 21.1% from 2026 to 2032.

77GHz automotive millimeter-wave radar is a radar system specifically designed for use in vehicles, operating within the 76-81 GHz frequency range. It uses high-frequency millimeter waves to detect and track objects in the vehicle's environment, providing data on their distance, speed, and relative position. This technology is crucial for advanced driver-assistance systems (ADAS) and autonomous driving, enabling features like adaptive cruise control, collision warning, blind-spot detection, and automatic emergency braking. The 77GHz radar offers high resolution, precise detection, and reliable performance even in challenging weather conditions, making it a key component in improving vehicle safety and supporting the development of self-driving cars.

The 77GHz automotive millimeter-wave radar is a key sensor technology in modern intelligent driving and autonomous driving systems, particularly in Advanced Driver Assistance Systems (ADAS). Compared to traditional 24GHz radars, the 77GHz radar offers higher frequency, providing better resolution and longer detection range. This enables it to precisely detect obstacles, vehicles, pedestrians, and other objects on the road, delivering real-time alert information to the driver or autonomous system, significantly enhancing vehicle safety and driving experience.

One of the main advantages of the 77GHz millimeter-wave radar is its high resolution and long-range detection capability. The higher frequency of the 77GHz signal provides finer environmental sensing, particularly in complex road scenarios, allowing it to

effectively identify and differentiate multiple objects. For instance, it can detect distant pedestrians, other vehicles, or obstacles, enabling the autonomous system to react in advance at high speeds, reducing the risk of collisions.

Moreover, the 77GHz millimeter-wave radar has all-weather operational capabilities. Unlike visual sensors (such as cameras), which perform poorly under adverse weather conditions like rain, snow, or fog, the 77GHz radar is unaffected by such environmental factors. Its signals can penetrate rain and fog, ensuring stable operation in various weather conditions, allowing the autonomous driving system to provide accurate sensing in all environments.

However, there are certain limitations and challenges associated with the 77GHz millimeter-wave radar. While it offers high resolution, it still has some limitations in detecting very small objects when compared to LiDAR. Additionally, the cost of 77GHz radar is relatively high, which may pose a barrier to widespread adoption, particularly in lower-cost vehicle models. However, with technological advancements and economies of scale, the cost is expected to decrease over time.

Despite these challenges, the future prospects of 77GHz millimeter-wave radar in autonomous and intelligent driving are very promising. With ongoing improvements in radar technology, signal processing algorithms, and integrated circuit design, the 77GHz radar's resolution and detection capabilities will continue to improve, while costs are likely to decrease. As autonomous driving technology becomes more widespread, the 77GHz millimeter-wave radar will work in tandem with other sensors like LiDAR, cameras, and ultrasonic sensors to create a more comprehensive and reliable driving experience, advancing intelligent driving technology.

LP Information, Inc. (LPI) ' newest research report, the '77GHz Automotive mmWave Radar Industry Forecast' looks at past sales and reviews total world 77GHz Automotive mmWave Radar sales in 2025, providing a comprehensive analysis by region and market sector of projected 77GHz Automotive mmWave Radar sales for 2026 through 2032. With 77GHz Automotive mmWave Radar sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 77GHz Automotive mmWave Radar industry.

This Insight Report provides a comprehensive analysis of the global 77GHz Automotive mmWave Radar landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on

77GHz Automotive mmWave Radar portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 77GHz Automotive mmWave Radar market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 77GHz Automotive mmWave Radar and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 77GHz Automotive mmWave Radar.

This report presents a comprehensive overview, market shares, and growth opportunities of 77GHz Automotive mmWave Radar market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Short-range mmWave Radar

Medium range mmWave Radar

Long-range mmWave Radar

Segmentation by Application:

Passenger Vehicle

Commercial Vehicle

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

Bosch

Continental

Denso

Hella

Veoneer

Valeo

Aptiv

ZF

WHST

Hitachi Astemo

Nidec Elesys

Cheng-Tech

Chuhang Tech

HUAYU Automotive Systems

Desay SV

Key Questions Addressed in this Report

What is the 10-year outlook for the global 77GHz Automotive mmWave Radar market?

What factors are driving 77GHz Automotive mmWave Radar market growth, globally and by region?

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

How do 77GHz Automotive mmWave Radar market opportunities vary by end market size?

How does 77GHz Automotive mmWave Radar break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global 77GHz Automotive mmWave Radar Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for 77GHz Automotive mmWave Radar by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for 77GHz Automotive mmWave Radar by Country/Region, 2021, 2025 & 2032

2.2 77GHz Automotive mmWave Radar Segment by Type

- 2.2.1 Short-range mmWave Radar
- 2.2.2 Medium range mmWave Radar
- 2.2.3 Long-range mmWave Radar
- 2.2.4 77GHz Automotive mmWave Radar Sales by Type
 - 2.2.4.1 Global 77GHz Automotive mmWave Radar Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global 77GHz Automotive mmWave Radar Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global 77GHz Automotive mmWave Radar Sale Price by Type (2021-2026)

2.3 77GHz Automotive mmWave Radar Segment by Application

- 2.3.1 Passenger Vehicle
- 2.3.2 Commercial Vehicle
- 2.3.3 77GHz Automotive mmWave Radar Sales by Application
 - 2.3.3.1 Global 77GHz Automotive mmWave Radar Sale Market Share by Application (2021-2026)
 - 2.3.3.2 Global 77GHz Automotive mmWave Radar Revenue and Market Share by Application (2021-2026)

2.3.3.3 Global 77GHz Automotive mmWave Radar Sale Price by Application
(2021-2026)

3 GLOBAL BY COMPANY

3.1 Global 77GHz Automotive mmWave Radar Breakdown Data by Company

3.1.1 Global 77GHz Automotive mmWave Radar Annual Sales by Company
(2021-2026)

3.1.2 Global 77GHz Automotive mmWave Radar Sales Market Share by Company
(2021-2026)

3.2 Global 77GHz Automotive mmWave Radar Annual Revenue by Company
(2021-2026)

3.2.1 Global 77GHz Automotive mmWave Radar Revenue by Company (2021-2026)

3.2.2 Global 77GHz Automotive mmWave Radar Revenue Market Share by Company
(2021-2026)

3.3 Global 77GHz Automotive mmWave Radar Sale Price by Company

3.4 Key Manufacturers 77GHz Automotive mmWave Radar Producing Area Distribution,
Sales Area, Product Type

3.4.1 Key Manufacturers 77GHz Automotive mmWave Radar Product Location
Distribution

3.4.2 Players 77GHz Automotive mmWave Radar Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

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

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR 77GHZ AUTOMOTIVE MMWAVE RADAR BY GEOGRAPHIC REGION

4.1 World Historic 77GHz Automotive mmWave Radar Market Size by Geographic
Region (2021-2026)

4.1.1 Global 77GHz Automotive mmWave Radar Annual Sales by Geographic Region
(2021-2026)

4.1.2 Global 77GHz Automotive mmWave Radar Annual Revenue by Geographic
Region (2021-2026)

4.2 World Historic 77GHz Automotive mmWave Radar Market Size by Country/Region
(2021-2026)

4.2.1 Global 77GHz Automotive mmWave Radar Annual Sales by Country/Region

(2021-2026)

4.2.2 Global 77GHz Automotive mmWave Radar Annual Revenue by Country/Region

(2021-2026)

4.3 Americas 77GHz Automotive mmWave Radar Sales Growth

4.4 APAC 77GHz Automotive mmWave Radar Sales Growth

4.5 Europe 77GHz Automotive mmWave Radar Sales Growth

4.6 Middle East & Africa 77GHz Automotive mmWave Radar Sales Growth

5 AMERICAS

5.1 Americas 77GHz Automotive mmWave Radar Sales by Country

5.1.1 Americas 77GHz Automotive mmWave Radar Sales by Country (2021-2026)

5.1.2 Americas 77GHz Automotive mmWave Radar Revenue by Country (2021-2026)

5.2 Americas 77GHz Automotive mmWave Radar Sales by Type (2021-2026)

5.3 Americas 77GHz Automotive mmWave Radar Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC 77GHz Automotive mmWave Radar Sales by Region

6.1.1 APAC 77GHz Automotive mmWave Radar Sales by Region (2021-2026)

6.1.2 APAC 77GHz Automotive mmWave Radar Revenue by Region (2021-2026)

6.2 APAC 77GHz Automotive mmWave Radar Sales by Type (2021-2026)

6.3 APAC 77GHz Automotive mmWave Radar Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe 77GHz Automotive mmWave Radar by Country

7.1.1 Europe 77GHz Automotive mmWave Radar Sales by Country (2021-2026)

- 7.1.2 Europe 77GHz Automotive mmWave Radar Revenue by Country (2021-2026)
- 7.2 Europe 77GHz Automotive mmWave Radar Sales by Type (2021-2026)
- 7.3 Europe 77GHz Automotive mmWave Radar Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa 77GHz Automotive mmWave Radar by Country
 - 8.1.1 Middle East & Africa 77GHz Automotive mmWave Radar Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa 77GHz Automotive mmWave Radar Revenue by Country (2021-2026)
- 8.2 Middle East & Africa 77GHz Automotive mmWave Radar Sales by Type (2021-2026)
- 8.3 Middle East & Africa 77GHz Automotive mmWave Radar Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of 77GHz Automotive mmWave Radar
- 10.3 Manufacturing Process Analysis of 77GHz Automotive mmWave Radar
- 10.4 Industry Chain Structure of 77GHz Automotive mmWave Radar

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 77GHz Automotive mmWave Radar Distributors

11.3 77GHz Automotive mmWave Radar Customer

12 WORLD FORECAST REVIEW FOR 77GHZ AUTOMOTIVE MMWAVE RADAR BY GEOGRAPHIC REGION

12.1 Global 77GHz Automotive mmWave Radar Market Size Forecast by Region

12.1.1 Global 77GHz Automotive mmWave Radar Forecast by Region (2027-2032)

12.1.2 Global 77GHz Automotive mmWave Radar Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global 77GHz Automotive mmWave Radar Forecast by Type (2027-2032)

12.7 Global 77GHz Automotive mmWave Radar Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Bosch

13.1.1 Bosch Company Information

13.1.2 Bosch 77GHz Automotive mmWave Radar Product Portfolios and Specifications

13.1.3 Bosch 77GHz Automotive mmWave Radar Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Bosch Main Business Overview

13.1.5 Bosch Latest Developments

13.2 Continental

13.2.1 Continental Company Information

13.2.2 Continental 77GHz Automotive mmWave Radar Product Portfolios and Specifications

13.2.3 Continental 77GHz Automotive mmWave Radar Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Continental Main Business Overview

- 13.2.5 Continental Latest Developments
- 13.3 Denso
 - 13.3.1 Denso Company Information
 - 13.3.2 Denso 77GHz Automotive mmWave Radar Product Portfolios and Specifications
 - 13.3.3 Denso 77GHz Automotive mmWave Radar Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Denso Main Business Overview
 - 13.3.5 Denso Latest Developments
- 13.4 Hella
 - 13.4.1 Hella Company Information
 - 13.4.2 Hella 77GHz Automotive mmWave Radar Product Portfolios and Specifications
 - 13.4.3 Hella 77GHz Automotive mmWave Radar Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Hella Main Business Overview
 - 13.4.5 Hella Latest Developments
- 13.5 Veoneer
 - 13.5.1 Veoneer Company Information
 - 13.5.2 Veoneer 77GHz Automotive mmWave Radar Product Portfolios and Specifications
 - 13.5.3 Veoneer 77GHz Automotive mmWave Radar Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Veoneer Main Business Overview
 - 13.5.5 Veoneer Latest Developments
- 13.6 Valeo
 - 13.6.1 Valeo Company Information
 - 13.6.2 Valeo 77GHz Automotive mmWave Radar Product Portfolios and Specifications
 - 13.6.3 Valeo 77GHz Automotive mmWave Radar Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Valeo Main Business Overview
 - 13.6.5 Valeo Latest Developments
- 13.7 Aptiv
 - 13.7.1 Aptiv Company Information
 - 13.7.2 Aptiv 77GHz Automotive mmWave Radar Product Portfolios and Specifications
 - 13.7.3 Aptiv 77GHz Automotive mmWave Radar Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Aptiv Main Business Overview
 - 13.7.5 Aptiv Latest Developments
- 13.8 ZF

- 13.8.1 ZF Company Information
- 13.8.2 ZF 77GHz Automotive mmWave Radar Product Portfolios and Specifications
- 13.8.3 ZF 77GHz Automotive mmWave Radar Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.8.4 ZF Main Business Overview
- 13.8.5 ZF Latest Developments
- 13.9 WHST
 - 13.9.1 WHST Company Information
 - 13.9.2 WHST 77GHz Automotive mmWave Radar Product Portfolios and Specifications
 - 13.9.3 WHST 77GHz Automotive mmWave Radar Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 WHST Main Business Overview
 - 13.9.5 WHST Latest Developments
- 13.10 Hitachi Astemo
 - 13.10.1 Hitachi Astemo Company Information
 - 13.10.2 Hitachi Astemo 77GHz Automotive mmWave Radar Product Portfolios and Specifications
 - 13.10.3 Hitachi Astemo 77GHz Automotive mmWave Radar Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Hitachi Astemo Main Business Overview
 - 13.10.5 Hitachi Astemo Latest Developments
- 13.11 Nidec Elesys
 - 13.11.1 Nidec Elesys Company Information
 - 13.11.2 Nidec Elesys 77GHz Automotive mmWave Radar Product Portfolios and Specifications
 - 13.11.3 Nidec Elesys 77GHz Automotive mmWave Radar Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Nidec Elesys Main Business Overview
 - 13.11.5 Nidec Elesys Latest Developments
- 13.12 Cheng-Tech
 - 13.12.1 Cheng-Tech Company Information
 - 13.12.2 Cheng-Tech 77GHz Automotive mmWave Radar Product Portfolios and Specifications
 - 13.12.3 Cheng-Tech 77GHz Automotive mmWave Radar Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Cheng-Tech Main Business Overview
 - 13.12.5 Cheng-Tech Latest Developments
- 13.13 Chuhan Tech

- 13.13.1 Chuhang Tech Company Information
- 13.13.2 Chuhang Tech 77GHz Automotive mmWave Radar Product Portfolios and Specifications
- 13.13.3 Chuhang Tech 77GHz Automotive mmWave Radar Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.13.4 Chuhang Tech Main Business Overview
- 13.13.5 Chuhang Tech Latest Developments
- 13.14 HUAYU Automotive Systems
 - 13.14.1 HUAYU Automotive Systems Company Information
 - 13.14.2 HUAYU Automotive Systems 77GHz Automotive mmWave Radar Product Portfolios and Specifications
 - 13.14.3 HUAYU Automotive Systems 77GHz Automotive mmWave Radar Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 HUAYU Automotive Systems Main Business Overview
 - 13.14.5 HUAYU Automotive Systems Latest Developments
- 13.15 Desay SV
 - 13.15.1 Desay SV Company Information
 - 13.15.2 Desay SV 77GHz Automotive mmWave Radar Product Portfolios and Specifications
 - 13.15.3 Desay SV 77GHz Automotive mmWave Radar Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 Desay SV Main Business Overview
 - 13.15.5 Desay SV Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. 77GHz Automotive mmWave Radar Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. 77GHz Automotive mmWave Radar Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Short-range mmWave Radar

Table 4. Major Players of Medium range mmWave Radar

Table 5. Major Players of Long-range mmWave Radar

Table 6. Global 77GHz Automotive mmWave Radar Sales by Type (2021-2026) & (K Units)

Table 7. Global 77GHz Automotive mmWave Radar Sales Market Share by Type (2021-2026)

Table 8. Global 77GHz Automotive mmWave Radar Revenue by Type (2021-2026) & (\$ million)

Table 9. Global 77GHz Automotive mmWave Radar Revenue Market Share by Type (2021-2026)

Table 10. Global 77GHz Automotive mmWave Radar Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Global 77GHz Automotive mmWave Radar Sale by Application (2021-2026) & (K Units)

Table 12. Global 77GHz Automotive mmWave Radar Sale Market Share by Application (2021-2026)

Table 13. Global 77GHz Automotive mmWave Radar Revenue by Application (2021-2026) & (\$ million)

Table 14. Global 77GHz Automotive mmWave Radar Revenue Market Share by Application (2021-2026)

Table 15. Global 77GHz Automotive mmWave Radar Sale Price by Application (2021-2026) & (US\$/Unit)

Table 16. Global 77GHz Automotive mmWave Radar Sales by Company (2021-2026) & (K Units)

Table 17. Global 77GHz Automotive mmWave Radar Sales Market Share by Company (2021-2026)

Table 18. Global 77GHz Automotive mmWave Radar Revenue by Company (2021-2026) & (\$ millions)

Table 19. Global 77GHz Automotive mmWave Radar Revenue Market Share by Company (2021-2026)

- Table 20. Global 77GHz Automotive mmWave Radar Sale Price by Company (2021-2026) & (US\$/Unit)
- Table 21. Key Manufacturers 77GHz Automotive mmWave Radar Producing Area Distribution and Sales Area
- Table 22. Players 77GHz Automotive mmWave Radar Products Offered
- Table 23. 77GHz Automotive mmWave Radar Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 24. New Products and Potential Entrants
- Table 25. Market M&A Activity & Strategy
- Table 26. Global 77GHz Automotive mmWave Radar Sales by Geographic Region (2021-2026) & (K Units)
- Table 27. Global 77GHz Automotive mmWave Radar Sales Market Share Geographic Region (2021-2026)
- Table 28. Global 77GHz Automotive mmWave Radar Revenue by Geographic Region (2021-2026) & (\$ millions)
- Table 29. Global 77GHz Automotive mmWave Radar Revenue Market Share by Geographic Region (2021-2026)
- Table 30. Global 77GHz Automotive mmWave Radar Sales by Country/Region (2021-2026) & (K Units)
- Table 31. Global 77GHz Automotive mmWave Radar Sales Market Share by Country/Region (2021-2026)
- Table 32. Global 77GHz Automotive mmWave Radar Revenue by Country/Region (2021-2026) & (\$ millions)
- Table 33. Global 77GHz Automotive mmWave Radar Revenue Market Share by Country/Region (2021-2026)
- Table 34. Americas 77GHz Automotive mmWave Radar Sales by Country (2021-2026) & (K Units)
- Table 35. Americas 77GHz Automotive mmWave Radar Sales Market Share by Country (2021-2026)
- Table 36. Americas 77GHz Automotive mmWave Radar Revenue by Country (2021-2026) & (\$ millions)
- Table 37. Americas 77GHz Automotive mmWave Radar Sales by Type (2021-2026) & (K Units)
- Table 38. Americas 77GHz Automotive mmWave Radar Sales by Application (2021-2026) & (K Units)
- Table 39. APAC 77GHz Automotive mmWave Radar Sales by Region (2021-2026) & (K Units)
- Table 40. APAC 77GHz Automotive mmWave Radar Sales Market Share by Region (2021-2026)

- Table 41. APAC 77GHz Automotive mmWave Radar Revenue by Region (2021-2026) & (\$ millions)
- Table 42. APAC 77GHz Automotive mmWave Radar Sales by Type (2021-2026) & (K Units)
- Table 43. APAC 77GHz Automotive mmWave Radar Sales by Application (2021-2026) & (K Units)
- Table 44. Europe 77GHz Automotive mmWave Radar Sales by Country (2021-2026) & (K Units)
- Table 45. Europe 77GHz Automotive mmWave Radar Revenue by Country (2021-2026) & (\$ millions)
- Table 46. Europe 77GHz Automotive mmWave Radar Sales by Type (2021-2026) & (K Units)
- Table 47. Europe 77GHz Automotive mmWave Radar Sales by Application (2021-2026) & (K Units)
- Table 48. Middle East & Africa 77GHz Automotive mmWave Radar Sales by Country (2021-2026) & (K Units)
- Table 49. Middle East & Africa 77GHz Automotive mmWave Radar Revenue Market Share by Country (2021-2026)
- Table 50. Middle East & Africa 77GHz Automotive mmWave Radar Sales by Type (2021-2026) & (K Units)
- Table 51. Middle East & Africa 77GHz Automotive mmWave Radar Sales by Application (2021-2026) & (K Units)
- Table 52. Key Market Drivers & Growth Opportunities of 77GHz Automotive mmWave Radar
- Table 53. Key Market Challenges & Risks of 77GHz Automotive mmWave Radar
- Table 54. Key Industry Trends of 77GHz Automotive mmWave Radar
- Table 55. 77GHz Automotive mmWave Radar Raw Material
- Table 56. Key Suppliers of Raw Materials
- Table 57. 77GHz Automotive mmWave Radar Distributors List
- Table 58. 77GHz Automotive mmWave Radar Customer List
- Table 59. Global 77GHz Automotive mmWave Radar Sales Forecast by Region (2027-2032) & (K Units)
- Table 60. Global 77GHz Automotive mmWave Radar Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 61. Americas 77GHz Automotive mmWave Radar Sales Forecast by Country (2027-2032) & (K Units)
- Table 62. Americas 77GHz Automotive mmWave Radar Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 63. APAC 77GHz Automotive mmWave Radar Sales Forecast by Region

(2027-2032) & (K Units)

Table 64. APAC 77GHz Automotive mmWave Radar Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 65. Europe 77GHz Automotive mmWave Radar Sales Forecast by Country (2027-2032) & (K Units)

Table 66. Europe 77GHz Automotive mmWave Radar Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 67. Middle East & Africa 77GHz Automotive mmWave Radar Sales Forecast by Country (2027-2032) & (K Units)

Table 68. Middle East & Africa 77GHz Automotive mmWave Radar Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 69. Global 77GHz Automotive mmWave Radar Sales Forecast by Type (2027-2032) & (K Units)

Table 70. Global 77GHz Automotive mmWave Radar Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 71. Global 77GHz Automotive mmWave Radar Sales Forecast by Application (2027-2032) & (K Units)

Table 72. Global 77GHz Automotive mmWave Radar Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 73. Bosch Basic Information, 77GHz Automotive mmWave Radar Manufacturing Base, Sales Area and Its Competitors

Table 74. Bosch 77GHz Automotive mmWave Radar Product Portfolios and Specifications

Table 75. Bosch 77GHz Automotive mmWave Radar Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 76. Bosch Main Business

Table 77. Bosch Latest Developments

Table 78. Continental Basic Information, 77GHz Automotive mmWave Radar Manufacturing Base, Sales Area and Its Competitors

Table 79. Continental 77GHz Automotive mmWave Radar Product Portfolios and Specifications

Table 80. Continental 77GHz Automotive mmWave Radar Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 81. Continental Main Business

Table 82. Continental Latest Developments

Table 83. Denso Basic Information, 77GHz Automotive mmWave Radar Manufacturing Base, Sales Area and Its Competitors

Table 84. Denso 77GHz Automotive mmWave Radar Product Portfolios and Specifications

Table 85. Denso 77GHz Automotive mmWave Radar Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 86. Denso Main Business

Table 87. Denso Latest Developments

Table 88. Hella Basic Information, 77GHz Automotive mmWave Radar Manufacturing Base, Sales Area and Its Competitors

Table 89. Hella 77GHz Automotive mmWave Radar Product Portfolios and Specifications

Table 90. Hella 77GHz Automotive mmWave Radar Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 91. Hella Main Business

Table 92. Hella Latest Developments

Table 93. Veoneer Basic Information, 77GHz Automotive mmWave Radar Manufacturing Base, Sales Area and Its Competitors

Table 94. Veoneer 77GHz Automotive mmWave Radar Product Portfolios and Specifications

Table 95. Veoneer 77GHz Automotive mmWave Radar Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 96. Veoneer Main Business

Table 97. Veoneer Latest Developments

Table 98. Valeo Basic Information, 77GHz Automotive mmWave Radar Manufacturing Base, Sales Area and Its Competitors

Table 99. Valeo 77GHz Automotive mmWave Radar Product Portfolios and Specifications

Table 100. Valeo 77GHz Automotive mmWave Radar Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 101. Valeo Main Business

Table 102. Valeo Latest Developments

Table 103. Aptiv Basic Information, 77GHz Automotive mmWave Radar Manufacturing Base, Sales Area and Its Competitors

Table 104. Aptiv 77GHz Automotive mmWave Radar Product Portfolios and Specifications

Table 105. Aptiv 77GHz Automotive mmWave Radar Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 106. Aptiv Main Business

Table 107. Aptiv Latest Developments

Table 108. ZF Basic Information, 77GHz Automotive mmWave Radar Manufacturing Base, Sales Area and Its Competitors

Table 109. ZF 77GHz Automotive mmWave Radar Product Portfolios and Specifications

Table 110. ZF 77GHz Automotive mmWave Radar Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 111. ZF Main Business

Table 112. ZF Latest Developments

Table 113. WHST Basic Information, 77GHz Automotive mmWave Radar Manufacturing Base, Sales Area and Its Competitors

Table 114. WHST 77GHz Automotive mmWave Radar Product Portfolios and Specifications

Table 115. WHST 77GHz Automotive mmWave Radar Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 116. WHST Main Business

Table 117. WHST Latest Developments

Table 118. Hitachi?Astemo Basic Information, 77GHz Automotive mmWave Radar Manufacturing Base, Sales Area and Its Competitors

Table 119. Hitachi?Astemo 77GHz Automotive mmWave Radar Product Portfolios and Specifications

Table 120. Hitachi?Astemo 77GHz Automotive mmWave Radar Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 121. Hitachi?Astemo Main Business

Table 122. Hitachi?Astemo Latest Developments

Table 123. Nidec Elesys Basic Information, 77GHz Automotive mmWave Radar Manufacturing Base, Sales Area and Its Competitors

Table 124. Nidec Elesys 77GHz Automotive mmWave Radar Product Portfolios and Specifications

Table 125. Nidec Elesys 77GHz Automotive mmWave Radar Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 126. Nidec Elesys Main Business

Table 127. Nidec Elesys Latest Developments

Table 128. Cheng-Tech Basic Information, 77GHz Automotive mmWave Radar Manufacturing Base, Sales Area and Its Competitors

Table 129. Cheng-Tech 77GHz Automotive mmWave Radar Product Portfolios and Specifications

Table 130. Cheng-Tech 77GHz Automotive mmWave Radar Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 131. Cheng-Tech Main Business

Table 132. Cheng-Tech Latest Developments

Table 133. Chuhan Tech Basic Information, 77GHz Automotive mmWave Radar Manufacturing Base, Sales Area and Its Competitors

Table 134. Chuhan Tech 77GHz Automotive mmWave Radar Product Portfolios and

Specifications

Table 135. Chuhang Tech 77GHz Automotive mmWave Radar Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 136. Chuhang Tech Main Business

Table 137. Chuhang Tech Latest Developments

Table 138. HUAYU Automotive Systems Basic Information, 77GHz Automotive mmWave Radar Manufacturing Base, Sales Area and Its Competitors

Table 139. HUAYU Automotive Systems 77GHz Automotive mmWave Radar Product Portfolios and Specifications

Table 140. HUAYU Automotive Systems 77GHz Automotive mmWave Radar Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 141. HUAYU Automotive Systems Main Business

Table 142. HUAYU Automotive Systems Latest Developments

Table 143. Desay SV Basic Information, 77GHz Automotive mmWave Radar Manufacturing Base, Sales Area and Its Competitors

Table 144. Desay SV 77GHz Automotive mmWave Radar Product Portfolios and Specifications

Table 145. Desay SV 77GHz Automotive mmWave Radar Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 146. Desay SV Main Business

Table 147. Desay SV Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of 77GHz Automotive mmWave Radar
- Figure 2. 77GHz Automotive mmWave Radar Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global 77GHz Automotive mmWave Radar Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global 77GHz Automotive mmWave Radar Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. 77GHz Automotive mmWave Radar Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. 77GHz Automotive mmWave Radar Sales Market Share by Country/Region (2025)
- Figure 10. 77GHz Automotive mmWave Radar Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Short-range mmWave Radar
- Figure 12. Product Picture of Medium range mmWave Radar
- Figure 13. Product Picture of Long-range mmWave Radar
- Figure 14. Global 77GHz Automotive mmWave Radar Sales Market Share by Type in 2026
- Figure 15. Global 77GHz Automotive mmWave Radar Revenue Market Share by Type (2021-2026)
- Figure 16. 77GHz Automotive mmWave Radar Consumed in Passenger Vehicle
- Figure 17. Global 77GHz Automotive mmWave Radar Market: Passenger Vehicle (2021-2026) & (K Units)
- Figure 18. 77GHz Automotive mmWave Radar Consumed in Commercial Vehicle
- Figure 19. Global 77GHz Automotive mmWave Radar Market: Commercial Vehicle (2021-2026) & (K Units)
- Figure 20. Global 77GHz Automotive mmWave Radar Sale Market Share by Application (2025)
- Figure 21. Global 77GHz Automotive mmWave Radar Revenue Market Share by Application in 2026
- Figure 22. 77GHz Automotive mmWave Radar Sales by Company in 2026 (K Units)
- Figure 23. Global 77GHz Automotive mmWave Radar Sales Market Share by Company in 2026

Figure 24. 77GHz Automotive mmWave Radar Revenue by Company in 2026 (\$ millions)

Figure 25. Global 77GHz Automotive mmWave Radar Revenue Market Share by Company in 2026

Figure 26. Global 77GHz Automotive mmWave Radar Sales Market Share by Geographic Region (2021-2026)

Figure 27. Global 77GHz Automotive mmWave Radar Revenue Market Share by Geographic Region in 2026

Figure 28. Americas 77GHz Automotive mmWave Radar Sales 2021-2026 (K Units)

Figure 29. Americas 77GHz Automotive mmWave Radar Revenue 2021-2026 (\$ millions)

Figure 30. APAC 77GHz Automotive mmWave Radar Sales 2021-2026 (K Units)

Figure 31. APAC 77GHz Automotive mmWave Radar Revenue 2021-2026 (\$ millions)

Figure 32. Europe 77GHz Automotive mmWave Radar Sales 2021-2026 (K Units)

Figure 33. Europe 77GHz Automotive mmWave Radar Revenue 2021-2026 (\$ millions)

Figure 34. Middle East & Africa 77GHz Automotive mmWave Radar Sales 2021-2026 (K Units)

Figure 35. Middle East & Africa 77GHz Automotive mmWave Radar Revenue 2021-2026 (\$ millions)

Figure 36. Americas 77GHz Automotive mmWave Radar Sales Market Share by Country in 2026

Figure 37. Americas 77GHz Automotive mmWave Radar Revenue Market Share by Country (2021-2026)

Figure 38. Americas 77GHz Automotive mmWave Radar Sales Market Share by Type (2021-2026)

Figure 39. Americas 77GHz Automotive mmWave Radar Sales Market Share by Application (2021-2026)

Figure 40. United States 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 41. Canada 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 42. Mexico 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 43. Brazil 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 44. APAC 77GHz Automotive mmWave Radar Sales Market Share by Region in 2026

Figure 45. APAC 77GHz Automotive mmWave Radar Revenue Market Share by Region (2021-2026)

Figure 46. APAC 77GHz Automotive mmWave Radar Sales Market Share by Type (2021-2026)

Figure 47. APAC 77GHz Automotive mmWave Radar Sales Market Share by Application (2021-2026)

Figure 48. China 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 49. Japan 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 50. South Korea 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 51. Southeast Asia 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 52. India 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 53. Australia 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 54. China Taiwan 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 55. Europe 77GHz Automotive mmWave Radar Sales Market Share by Country in 2026

Figure 56. Europe 77GHz Automotive mmWave Radar Revenue Market Share by Country (2021-2026)

Figure 57. Europe 77GHz Automotive mmWave Radar Sales Market Share by Type (2021-2026)

Figure 58. Europe 77GHz Automotive mmWave Radar Sales Market Share by Application (2021-2026)

Figure 59. Germany 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 60. France 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 61. UK 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 62. Italy 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 63. Russia 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 64. Middle East & Africa 77GHz Automotive mmWave Radar Sales Market Share by Country (2021-2026)

Figure 65. Middle East & Africa 77GHz Automotive mmWave Radar Sales Market

Share by Type (2021-2026)

Figure 66. Middle East & Africa 77GHz Automotive mmWave Radar Sales Market

Share by Application (2021-2026)

Figure 67. Egypt 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 68. South Africa 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 69. Israel 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 70. Turkey 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 71. GCC Countries 77GHz Automotive mmWave Radar Revenue Growth 2021-2026 (\$ millions)

Figure 72. Manufacturing Cost Structure Analysis of 77GHz Automotive mmWave Radar in 2026

Figure 73. Manufacturing Process Analysis of 77GHz Automotive mmWave Radar

Figure 74. Industry Chain Structure of 77GHz Automotive mmWave Radar

Figure 75. Channels of Distribution

Figure 76. Global 77GHz Automotive mmWave Radar Sales Market Forecast by Region (2027-2032)

Figure 77. Global 77GHz Automotive mmWave Radar Revenue Market Share Forecast by Region (2027-2032)

Figure 78. Global 77GHz Automotive mmWave Radar Sales Market Share Forecast by Type (2027-2032)

Figure 79. Global 77GHz Automotive mmWave Radar Revenue Market Share Forecast by Type (2027-2032)

Figure 80. Global 77GHz Automotive mmWave Radar Sales Market Share Forecast by Application (2027-2032)

Figure 81. Global 77GHz Automotive mmWave Radar Revenue Market Share Forecast by Application (2027-2032)

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