

Global 77GHz Radar Market Research Report 2024(Status and Outlook)

<https://marketpublishers.com/r/G7C2D9CF0291EN.html>

Date: December 2024

Pages: 147

Price: US\$ 2,800.00 (Single User License)

ID: G7C2D9CF0291EN

Abstracts

Report Overview

77GHz radar technology is a critical component in the automotive industry, primarily used for advanced driver assistance systems (ADAS) and autonomous vehicles. This radar operates at a frequency of 77 gigahertz, offering high-resolution sensing capabilities for improved object detection and tracking. The market for 77GHz radar is positioned at the forefront of innovation in the automotive sector, driving safety and efficiency in vehicles.

In 2023, the global market size for 77GHz radar technology reached approximately USD 1.2 billion. With a projected compound annual growth rate (CAGR) of 22.5% from 2024 to 2032, the market is expected to expand significantly due to the increasing demand for safety features in vehicles, regulatory mandates, and the rise of autonomous driving technologies.

Key growth drivers of the 77GHz radar market include the growing focus on vehicle safety, the rise of autonomous vehicles, advancements in sensor technologies, and increasing investments in research and development. The market is also influenced by factors such as regulatory requirements for safety features, the need for collision avoidance systems, and the integration of radar sensors in vehicles for enhanced perception capabilities.

One prominent trend in the 77GHz radar market is the integration of radar sensors with other sensing technologies like LiDAR and cameras to enable comprehensive perception systems in vehicles. This trend enhances the overall sensing capabilities of vehicles, leading to improved safety and autonomous driving functionalities. Another

trend is the development of compact and cost-effective radar solutions to cater to a broader range of vehicle models and manufacturers.

Regional market distribution shows that North America and Europe are leading markets for 77GHz radar technology. This dominance is driven by the presence of key automotive manufacturers, stringent safety regulations, and high consumer awareness regarding advanced safety features. In these regions, the market dynamics are shaped by collaborations between automakers and technology providers, government initiatives promoting vehicle safety, and the rapid adoption of ADAS features.

Despite its growth prospects, the 77GHz radar market faces challenges such as regulatory uncertainties, interoperability issues with other sensor technologies, and the need for standardization in radar systems. Manufacturers also need to address concerns related to false alarms, environmental interference, and cybersecurity risks associated with radar sensors to ensure widespread adoption and acceptance in the market.

In conclusion, the 77GHz radar market is poised for significant growth driven by the increasing focus on vehicle safety and advancements in autonomous driving technologies. Manufacturers and stakeholders in this market should continue to innovate, collaborate, and address key challenges to capitalize on the expanding opportunities in the automotive industry.

This report provides a deep insight into the global 77GHz Radar market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global 77GHz Radar Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are

planning to foray into the 77GHz Radar market in any manner.

Global 77GHz Radar Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

Bosch

Continental

Hella

Denso

Veoneer

Valeo

Aptiv

ZF

Hitachi

Nidec Elesys

Cubtek

United Optoelectronics

Market Segmentation (by Type)

Short Range

Medium Range

Long Range

Market Segmentation (by Application)

Passenger Vehicle

Commercial Vehicle

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the 77GHz Radar Market

Overview of the regional outlook of the 77GHz Radar Market:

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning

recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the 77GHz Radar Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of 77GHz Radar

1.2 Key Market Segments

1.2.1 77GHz Radar Segment by Type

1.2.2 77GHz Radar Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 77GHZ RADAR MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global 77GHz Radar Market Size (M USD) Estimates and Forecasts (2019-2032)

2.1.2 Global 77GHz Radar Sales Estimates and Forecasts (2019-2032)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

2.4 Macroeconomic Analysis

3 77GHZ RADAR MARKET COMPETITIVE LANDSCAPE

3.1 Global 77GHz Radar Sales by Manufacturers (2019-2024)

3.2 Global 77GHz Radar Revenue Market Share by Manufacturers (2019-2024)

3.3 77GHz Radar Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.4 Global 77GHz Radar Average Price by Manufacturers (2019-2024)

3.5 Manufacturers 77GHz Radar Sales Sites, Area Served, Product Type

3.6 77GHz Radar Market Competitive Situation and Trends

3.6.1 77GHz Radar Market Concentration Rate

3.6.2 Global 5 and 10 Largest 77GHz Radar Players Market Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

4 77GHZ RADAR INDUSTRY CHAIN ANALYSIS

- 4.1 77GHz Radar Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF 77GHZ RADAR MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Market Restraints
- 5.5 Industry News
 - 5.5.1 New Product Developments
 - 5.5.2 Mergers & Acquisitions
 - 5.5.3 Expansions
 - 5.5.4 Collaboration/Supply Contracts
- 5.6 Industry Policies

6 77GHZ RADAR MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global 77GHz Radar Sales Market Share by Type (2019-2024)
- 6.3 Global 77GHz Radar Market Size Market Share by Type (2019-2024)
- 6.4 Global 77GHz Radar Price by Type (2019-2024)

7 77GHZ RADAR MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global 77GHz Radar Market Sales by Application (2019-2024)
- 7.3 Global 77GHz Radar Market Size (M USD) by Application (2019-2024)
- 7.4 Global 77GHz Radar Sales Growth Rate by Application (2019-2024)

8 77GHZ RADAR MARKET SALES BY REGION

- 8.1 Global 77GHz Radar Sales by Region
 - 8.1.1 Global 77GHz Radar Sales by Region
 - 8.1.2 Global 77GHz Radar Sales Market Share by Region
- 8.2 Global 77GHz Radar Market Size by Region
 - 8.2.1 Global 77GHz Radar Market Size by Region

8.2.2 Global 77GHz Radar Market Size Market Share by Region

8.3 North America

8.3.1 North America 77GHz Radar Sales by Country

8.3.2 North America 77GHz Radar Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe 77GHz Radar Sales by Country

8.4.2 Europe 77GHz Radar Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Russia Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific 77GHz Radar Sales by Region

8.5.2 China

8.5.3 Japan

8.5.4 South Korea

8.5.5 India

8.5.6 Southeast Asia

8.6 Asia Pacific

8.6.1 Asia Pacific 77GHz Radar Market Size by Region

8.6.2 Asia Pacific 77GHz Radar Market Size by Region

8.6.3 China

8.6.4 Japan

8.6.5 South Korea

8.6.6 India

8.6.7 Southeast Asia

8.7 South America

8.7.1 South America 77GHz Radar Sales by Country

8.7.2 South America 77GHz Radar Market Size by Country

8.7.3 Brazil

8.7.4 Argentina

8.7.5 Columbia

8.8 Middle East and Africa

8.8.1 Middle East and Africa 77GHz Radar Sales by Region

8.8.2 Middle East and Africa 77GHz Radar Market Size by Region

8.8.3 Saudi Arabia

8.8.4 UAE

8.8.5 Egypt

8.8.6 Nigeria

8.8.7 South Africa

9 77GHZ RADAR MARKET PRODUCTION BY REGION

9.1 Global Production of 77GHz Radar by Region (2019-2024)

9.2 Global 77GHz Radar Revenue Market Share by Region (2019-2024)

9.3 Global 77GHz Radar Production, Revenue, Price and Gross Margin (2019-2024)

9.4 North America 77GHz Radar Production

9.4.1 North America 77GHz Radar Production Growth Rate (2019-2024)

9.4.2 North America 77GHz Radar Production, Revenue, Price and Gross Margin (2019-2024)

9.5 Europe 77GHz Radar Production

9.5.1 Europe 77GHz Radar Production Growth Rate (2019-2024)

9.5.2 Europe 77GHz Radar Production, Revenue, Price and Gross Margin (2019-2024)

9.6 Japan 77GHz Radar Production (2019-2024)

9.6.1 Japan 77GHz Radar Production Growth Rate (2019-2024)

9.6.2 Japan 77GHz Radar Production, Revenue, Price and Gross Margin (2019-2024)

9.7 China 77GHz Radar Production (2019-2024)

9.7.1 China 77GHz Radar Production Growth Rate (2019-2024)

9.7.2 China 77GHz Radar Production, Revenue, Price and Gross Margin (2019-2024)

10 KEY COMPANIES PROFILE

10.1 Bosch

10.1.1 Bosch 77GHz Radar Basic Information

10.1.2 Bosch 77GHz Radar Product Overview

10.1.3 Bosch 77GHz Radar Product Market Performance

10.1.4 Bosch Business Overview

10.1.5 Bosch 77GHz Radar SWOT Analysis

10.1.6 Bosch Recent Developments

10.2 Continental

10.2.1 Continental 77GHz Radar Basic Information

10.2.2 Continental 77GHz Radar Product Overview

10.2.3 Continental 77GHz Radar Product Market Performance

- 10.2.4 Continental Business Overview
- 10.2.5 Continental 77GHz Radar SWOT Analysis
- 10.2.6 Continental Recent Developments
- 10.3 Hella
 - 10.3.1 Hella 77GHz Radar Basic Information
 - 10.3.2 Hella 77GHz Radar Product Overview
 - 10.3.3 Hella 77GHz Radar Product Market Performance
 - 10.3.4 Hella 77GHz Radar SWOT Analysis
 - 10.3.5 Hella Business Overview
 - 10.3.6 Hella Recent Developments
- 10.4 Denso
 - 10.4.1 Denso 77GHz Radar Basic Information
 - 10.4.2 Denso 77GHz Radar Product Overview
 - 10.4.3 Denso 77GHz Radar Product Market Performance
 - 10.4.4 Denso Business Overview
 - 10.4.5 Denso Recent Developments
- 10.5 Veoneer
 - 10.5.1 Veoneer 77GHz Radar Basic Information
 - 10.5.2 Veoneer 77GHz Radar Product Overview
 - 10.5.3 Veoneer 77GHz Radar Product Market Performance
 - 10.5.4 Veoneer Business Overview
 - 10.5.5 Veoneer Recent Developments
- 10.6 Valeo
 - 10.6.1 Valeo 77GHz Radar Basic Information
 - 10.6.2 Valeo 77GHz Radar Product Overview
 - 10.6.3 Valeo 77GHz Radar Product Market Performance
 - 10.6.4 Valeo Business Overview
 - 10.6.5 Valeo Recent Developments
- 10.7 Aptiv
 - 10.7.1 Aptiv 77GHz Radar Basic Information
 - 10.7.2 Aptiv 77GHz Radar Product Overview
 - 10.7.3 Aptiv 77GHz Radar Product Market Performance
 - 10.7.4 Aptiv Business Overview
 - 10.7.5 Aptiv Recent Developments
- 10.8 ZF
 - 10.8.1 ZF 77GHz Radar Basic Information
 - 10.8.2 ZF 77GHz Radar Product Overview
 - 10.8.3 ZF 77GHz Radar Product Market Performance
 - 10.8.4 ZF Business Overview

10.8.5 ZF Recent Developments

10.9 Hitachi

10.9.1 Hitachi 77GHz Radar Basic Information

10.9.2 Hitachi 77GHz Radar Product Overview

10.9.3 Hitachi 77GHz Radar Product Market Performance

10.9.4 Hitachi Business Overview

10.9.5 Hitachi Recent Developments

10.10 Nidec Elesys

10.10.1 Nidec Elesys 77GHz Radar Basic Information

10.10.2 Nidec Elesys 77GHz Radar Product Overview

10.10.3 Nidec Elesys 77GHz Radar Product Market Performance

10.10.4 Nidec Elesys Business Overview

10.10.5 Nidec Elesys Recent Developments

10.11 Cubtek

10.11.1 Cubtek 77GHz Radar Basic Information

10.11.2 Cubtek 77GHz Radar Product Overview

10.11.3 Cubtek 77GHz Radar Product Market Performance

10.11.4 Cubtek Business Overview

10.11.5 Cubtek Recent Developments

10.12 United Optoelectronics

10.12.1 United Optoelectronics 77GHz Radar Basic Information

10.12.2 United Optoelectronics 77GHz Radar Product Overview

10.12.3 United Optoelectronics 77GHz Radar Product Market Performance

10.12.4 United Optoelectronics Business Overview

10.12.5 United Optoelectronics Recent Developments

11 77GHZ RADAR MARKET FORECAST BY REGION

11.1 Global 77GHz Radar Market Size Forecast

11.2 Global 77GHz Radar Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe 77GHz Radar Market Size Forecast by Country

11.2.3 Asia Pacific 77GHz Radar Market Size Forecast by Region

11.2.4 South America 77GHz Radar Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of 77GHz Radar by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2032)

12.1 Global 77GHz Radar Market Forecast by Type (2025-2032)

- 12.1.1 Global Forecasted Sales of 77GHz Radar by Type (2025-2032)
- 12.1.2 Global 77GHz Radar Market Size Forecast by Type (2025-2032)
- 12.1.3 Global Forecasted Price of 77GHz Radar by Type (2025-2032)
- 12.2 Global 77GHz Radar Market Forecast by Application (2025-2032)
 - 12.2.1 Global 77GHz Radar Sales (K Units) Forecast by Application
 - 12.2.2 Global 77GHz Radar Market Size (M USD) Forecast by Application (2025-2032)

13 CONCLUSION AND KEY FINDINGS

I would like to order

Product name: Global 77GHz Radar Market Research Report 2024(Status and Outlook)

Product link: <https://marketpublishers.com/r/G7C2D9CF0291EN.html>

Price: US\$ 2,800.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G7C2D9CF0291EN.html>