

Global 24GHZ Millimeter Wave Radar Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 24GHZ Millimeter Wave Radar Module market size is expected to reach \$ 1954 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

A 24GHz millimeter-wave radar module is a radio frequency (RF) sensing module based on continuous wave or frequency-modulated continuous wave (FM) technology. It integrates RF transceiver front-end, antenna, signal processing, and interface circuitry for non-contact detection of the distance, velocity, angle, and presence status of target objects. It features strong resistance to light, dust, and smoke, and is widely used in automotive driver assistance systems, industrial automation, smart homes, vital sign monitoring, smart security, and personnel presence detection. In 2025, global sales of 24GHz millimeter-wave radar modules were approximately 185 million units, with an average unit price of approximately US\$6.4 and a capacity utilization rate of approximately 81%. The upstream mainly consists of RF millimeter-wave chips, high-frequency PCBs and antenna substrates, RF front-end devices, power management chips, microcontrollers and signal processing chips, as well as packaging and testing service providers. The downstream includes automotive electronics Tier 1 suppliers, industrial automation equipment manufacturers, smart home and IoT terminal manufacturers, and security and smart building system integrators. The market also includes health monitoring and consumer electronics manufacturers. The industry's gross profit margin is approximately 34%. In terms of product cost structure, millimeter-wave RF chips account for about 28%, high-frequency PCBs and antennas about 18%, power and control chips about 10%, RF front-ends and passive components about 12%, structural components and shielding about 8%, testing and calibration about 9%, software algorithms and firmware about 7%, and logistics, management, and sales expenses about 8%. The demand list mainly includes ADAS short-range sensing,

human presence and fall detection, industrial level and distance measurement, smart access control and automatic doors, and radar-sensing lighting and energy-saving control. Downstream customers include automotive electronics system providers, industrial automation equipment manufacturers, smart home brands, smart building system integrators, and medical and health monitoring equipment manufacturers. Business opportunities arise from the promotion of automotive safety regulations, smart building and energy-saving policies, the popularization of smart homes, increased integration and cost reduction of millimeter-wave chips, and changing consumer demands for more reliable, more privacy-protected, and lower-power sensing solutions.

This report studies the global 24GHZ Millimeter Wave Radar Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 24GHZ Millimeter Wave Radar Module and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 24GHZ Millimeter Wave Radar Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 24GHZ Millimeter Wave Radar Module total production and demand, 2021-2032, (K Units)

Global 24GHZ Millimeter Wave Radar Module total production value, 2021-2032, (USD Million)

Global 24GHZ Millimeter Wave Radar Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 24GHZ Millimeter Wave Radar Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 24GHZ Millimeter Wave Radar Module domestic production, consumption, key domestic manufacturers and share

Global 24GHZ Millimeter Wave Radar Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 24GHZ Millimeter Wave Radar Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 24GHZ Millimeter Wave Radar Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 24GHZ Millimeter Wave Radar Module market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Shenzhen CECport Technologies, Shanghai Fudan Microelectronics Group, Shenzhen Minew Technologies, TeraSillC, RDA Tech, Possumic Technology, Hlktech, Chengdu Ebyte, Shenzhen Mwrange Intelligent, Ferry Smart, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 24GHZ Millimeter Wave Radar Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 24GHZ Millimeter Wave Radar Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 24GHZ Millimeter Wave Radar Module Market, Segmentation by Type:

One Transmitter and One Receiver Type

One Transmitter and Two Receivers Type

Other

Global 24GHZ Millimeter Wave Radar Module Market, Segmentation by Accuracy:

Accuracy: Below 0.2 m

Accuracy: Equal or Above 0.2 m

Global 24GHZ Millimeter Wave Radar Module Market, Segmentation by Supply Voltage:

Supply Voltage: Below 3 V

Supply Voltage: 3-5 V

Supply Voltage: Above 5 V

Global 24GHZ Millimeter Wave Radar Module Market, Segmentation by Application:

ADAS

Smart Home

Smart Elderly Care

Other

Companies Profiled:

Shenzhen CECport Technologies

Shanghai Fudan Microelectronics Group

Shenzhen Minew Technologies

TeraSillC

RDA Tech

Possumic Technology

Hlktech

Chengdu Ebyte

Shenzhen Mwrange Intelligent

Ferry Smart

Key Questions Answered:

1. How big is the global 24GHZ Millimeter Wave Radar Module market?
2. What is the demand of the global 24GHZ Millimeter Wave Radar Module market?
3. What is the year over year growth of the global 24GHZ Millimeter Wave Radar Module market?
4. What is the production and production value of the global 24GHZ Millimeter Wave Radar Module market?
5. Who are the key producers in the global 24GHZ Millimeter Wave Radar Module market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Plastic Film for Medical Application Introduction
- 1.2 World Plastic Film for Medical Application Supply & Forecast
 - 1.2.1 World Plastic Film for Medical Application Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Plastic Film for Medical Application Production (2021-2032)
 - 1.2.3 World Plastic Film for Medical Application Pricing Trends (2021-2032)
- 1.3 World Plastic Film for Medical Application Production by Region (Based on Production Site)
 - 1.3.1 World Plastic Film for Medical Application Production Value by Region (2021-2032)
 - 1.3.2 World Plastic Film for Medical Application Production by Region (2021-2032)
 - 1.3.3 World Plastic Film for Medical Application Average Price by Region (2021-2032)
 - 1.3.4 North America Plastic Film for Medical Application Production (2021-2032)
 - 1.3.5 Europe Plastic Film for Medical Application Production (2021-2032)
 - 1.3.6 China Plastic Film for Medical Application Production (2021-2032)
 - 1.3.7 Japan Plastic Film for Medical Application Production (2021-2032)
 - 1.3.8 India Plastic Film for Medical Application Production (2021-2032)
 - 1.3.9 Southeast Asia Plastic Film for Medical Application Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Plastic Film for Medical Application Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Plastic Film for Medical Application Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Plastic Film for Medical Application Demand (2021-2032)
- 2.2 World Plastic Film for Medical Application Consumption by Region
 - 2.2.1 World Plastic Film for Medical Application Consumption by Region (2021-2026)
 - 2.2.2 World Plastic Film for Medical Application Consumption Forecast by Region (2027-2032)
- 2.3 United States Plastic Film for Medical Application Consumption (2021-2032)
- 2.4 China Plastic Film for Medical Application Consumption (2021-2032)
- 2.5 Europe Plastic Film for Medical Application Consumption (2021-2032)
- 2.6 Japan Plastic Film for Medical Application Consumption (2021-2032)
- 2.7 South Korea Plastic Film for Medical Application Consumption (2021-2032)

2.8 ASEAN Plastic Film for Medical Application Consumption (2021-2032)

2.9 India Plastic Film for Medical Application Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Plastic Film for Medical Application Production Value by Manufacturer (2021-2026)

3.2 World Plastic Film for Medical Application Production by Manufacturer (2021-2026)

3.3 World Plastic Film for Medical Application Average Price by Manufacturer (2021-2026)

3.4 Plastic Film for Medical Application Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Plastic Film for Medical Application Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Plastic Film for Medical Application in 2025

3.5.3 Global Concentration Ratios (CR8) for Plastic Film for Medical Application in 2025

3.6 Plastic Film for Medical Application Market: Overall Company Footprint Analysis

3.6.1 Plastic Film for Medical Application Market: Region Footprint

3.6.2 Plastic Film for Medical Application Market: Company Product Type Footprint

3.6.3 Plastic Film for Medical Application Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Plastic Film for Medical Application Production Value Comparison

4.1.1 United States VS China: Plastic Film for Medical Application Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Plastic Film for Medical Application Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Plastic Film for Medical Application Production Comparison

4.2.1 United States VS China: Plastic Film for Medical Application Production

Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Plastic Film for Medical Application Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Plastic Film for Medical Application Consumption Comparison

4.3.1 United States VS China: Plastic Film for Medical Application Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Plastic Film for Medical Application Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Plastic Film for Medical Application Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Plastic Film for Medical Application Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Plastic Film for Medical Application Production Value (2021-2026)

4.4.3 United States Based Manufacturers Plastic Film for Medical Application Production (2021-2026)

4.5 China Based Plastic Film for Medical Application Manufacturers and Market Share

4.5.1 China Based Plastic Film for Medical Application Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Plastic Film for Medical Application Production Value (2021-2026)

4.5.3 China Based Manufacturers Plastic Film for Medical Application Production (2021-2026)

4.6 Rest of World Based Plastic Film for Medical Application Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Plastic Film for Medical Application Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Plastic Film for Medical Application Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Plastic Film for Medical Application Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Plastic Film for Medical Application Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Polyurethane Material

- 5.2.2 Polyethylene Material
- 5.2.3 Polypropylene Material
- 5.2.4 Others

5.3 Market Segment by Type

- 5.3.1 World Plastic Film for Medical Application Production by Type (2021-2032)
- 5.3.2 World Plastic Film for Medical Application Production Value by Type (2021-2032)
- 5.3.3 World Plastic Film for Medical Application Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY APPLICATION STAGE

6.1 World Plastic Film for Medical Application Market Size Overview by Application Stage: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Application Stage

- 6.2.1 Manufacturing and Assembly Protection
- 6.2.2 Transportation and Clinical-use Protection

6.3 Market Segment by Application Stage

- 6.3.1 World Plastic Film for Medical Application Production by Application Stage (2021-2032)
- 6.3.2 World Plastic Film for Medical Application Production Value by Application Stage (2021-2032)
- 6.3.3 World Plastic Film for Medical Application Average Price by Application Stage (2021-2032)

7 MARKET ANALYSIS BY FUNCTIONAL PROPERTY

7.1 World Plastic Film for Medical Application Market Size Overview by Functional Property: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Functional Property

- 7.2.1 Scratch-resistant and Wear-resistant
- 7.2.2 Antimicrobial and Anti-contamination

7.3 Market Segment by Functional Property

- 7.3.1 World Plastic Film for Medical Application Production by Functional Property (2021-2032)
- 7.3.2 World Plastic Film for Medical Application Production Value by Functional Property (2021-2032)
- 7.3.3 World Plastic Film for Medical Application Average Price by Functional Property (2021-2032)

8 MARKET ANALYSIS BY ADHESIVE TYPE

8.1 World Plastic Film for Medical Application Market Size Overview by Adhesive Type: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Adhesive Type

8.2.1 Low-tack Removable Adhesive

8.2.2 Adhesive-free Electrostatic Cling

8.3 Market Segment by Adhesive Type

8.3.1 World Plastic Film for Medical Application Production by Adhesive Type (2021-2032)

8.3.2 World Plastic Film for Medical Application Production Value by Adhesive Type (2021-2032)

8.3.3 World Plastic Film for Medical Application Average Price by Adhesive Type (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Plastic Film for Medical Application Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Surgical and Medical Instruments

9.2.2 Ophthalmic Devices

9.2.3 Dental Devices

9.2.4 Others

9.3 Market Segment by Application

9.3.1 World Plastic Film for Medical Application Production by Application (2021-2032)

9.3.2 World Plastic Film for Medical Application Production Value by Application (2021-2032)

9.3.3 World Plastic Film for Medical Application Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 UFP Technologies

10.1.1 UFP Technologies Details

10.1.2 UFP Technologies Major Business

10.1.3 UFP Technologies Plastic Film for Medical Application Product and Services

10.1.4 UFP Technologies Plastic Film for Medical Application Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 UFP Technologies Recent Developments/Updates

- 10.1.6 UFP Technologies Competitive Strengths & Weaknesses
- 10.2 3M
 - 10.2.1 3M Details
 - 10.2.2 3M Major Business
 - 10.2.3 3M Plastic Film for Medical Application Product and Services
 - 10.2.4 3M Plastic Film for Medical Application Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.2.5 3M Recent Developments/Updates
 - 10.2.6 3M Competitive Strengths & Weaknesses
- 10.3 DowDuPont
 - 10.3.1 DowDuPont Details
 - 10.3.2 DowDuPont Major Business
 - 10.3.3 DowDuPont Plastic Film for Medical Application Product and Services
 - 10.3.4 DowDuPont Plastic Film for Medical Application Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.3.5 DowDuPont Recent Developments/Updates
 - 10.3.6 DowDuPont Competitive Strengths & Weaknesses
- 10.4 Mitsubishi Chemical
 - 10.4.1 Mitsubishi Chemical Details
 - 10.4.2 Mitsubishi Chemical Major Business
 - 10.4.3 Mitsubishi Chemical Plastic Film for Medical Application Product and Services
 - 10.4.4 Mitsubishi Chemical Plastic Film for Medical Application Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.4.5 Mitsubishi Chemical Recent Developments/Updates
 - 10.4.6 Mitsubishi Chemical Competitive Strengths & Weaknesses
- 10.5 Klockner Pentaplast
 - 10.5.1 Klockner Pentaplast Details
 - 10.5.2 Klockner Pentaplast Major Business
 - 10.5.3 Klockner Pentaplast Plastic Film for Medical Application Product and Services
 - 10.5.4 Klockner Pentaplast Plastic Film for Medical Application Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.5.5 Klockner Pentaplast Recent Developments/Updates
 - 10.5.6 Klockner Pentaplast Competitive Strengths & Weaknesses
- 10.6 Sigma Medical Supplies
 - 10.6.1 Sigma Medical Supplies Details
 - 10.6.2 Sigma Medical Supplies Major Business
 - 10.6.3 Sigma Medical Supplies Plastic Film for Medical Application Product and Services
 - 10.6.4 Sigma Medical Supplies Plastic Film for Medical Application Production, Price,

Value, Gross Margin and Market Share (2021-2026)

10.6.5 Sigma Medical Supplies Recent Developments/Updates

10.6.6 Sigma Medical Supplies Competitive Strengths & Weaknesses

10.7 Oliver Products

10.7.1 Oliver Products Details

10.7.2 Oliver Products Major Business

10.7.3 Oliver Products Plastic Film for Medical Application Product and Services

10.7.4 Oliver Products Plastic Film for Medical Application Production, Price, Value,

Gross Margin and Market Share (2021-2026)

10.7.5 Oliver Products Recent Developments/Updates

10.7.6 Oliver Products Competitive Strengths & Weaknesses

10.8 Amcor

10.8.1 Amcor Details

10.8.2 Amcor Major Business

10.8.3 Amcor Plastic Film for Medical Application Product and Services

10.8.4 Amcor Plastic Film for Medical Application Production, Price, Value, Gross

Margin and Market Share (2021-2026)

10.8.5 Amcor Recent Developments/Updates

10.8.6 Amcor Competitive Strengths & Weaknesses

10.9 Covestro

10.9.1 Covestro Details

10.9.2 Covestro Major Business

10.9.3 Covestro Plastic Film for Medical Application Product and Services

10.9.4 Covestro Plastic Film for Medical Application Production, Price, Value, Gross

Margin and Market Share (2021-2026)

10.9.5 Covestro Recent Developments/Updates

10.9.6 Covestro Competitive Strengths & Weaknesses

10.10 SWM

10.10.1 SWM Details

10.10.2 SWM Major Business

10.10.3 SWM Plastic Film for Medical Application Product and Services

10.10.4 SWM Plastic Film for Medical Application Production, Price, Value, Gross

Margin and Market Share (2021-2026)

10.10.5 SWM Recent Developments/Updates

10.10.6 SWM Competitive Strengths & Weaknesses

10.11 IPF

10.11.1 IPF Details

10.11.2 IPF Major Business

10.11.3 IPF Plastic Film for Medical Application Product and Services

- 10.11.4 IPF Plastic Film for Medical Application Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.11.5 IPF Recent Developments/Updates
- 10.11.6 IPF Competitive Strengths & Weaknesses
- 10.12 ContiTech
 - 10.12.1 ContiTech Details
 - 10.12.2 ContiTech Major Business
 - 10.12.3 ContiTech Plastic Film for Medical Application Product and Services
 - 10.12.4 ContiTech Plastic Film for Medical Application Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.12.5 ContiTech Recent Developments/Updates
 - 10.12.6 ContiTech Competitive Strengths & Weaknesses
- 10.13 Nelipak Healthcare Packaging
 - 10.13.1 Nelipak Healthcare Packaging Details
 - 10.13.2 Nelipak Healthcare Packaging Major Business
 - 10.13.3 Nelipak Healthcare Packaging Plastic Film for Medical Application Product and Services
 - 10.13.4 Nelipak Healthcare Packaging Plastic Film for Medical Application Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.13.5 Nelipak Healthcare Packaging Recent Developments/Updates
 - 10.13.6 Nelipak Healthcare Packaging Competitive Strengths & Weaknesses
- 10.14 Everlon
 - 10.14.1 Everlon Details
 - 10.14.2 Everlon Major Business
 - 10.14.3 Everlon Plastic Film for Medical Application Product and Services
 - 10.14.4 Everlon Plastic Film for Medical Application Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.14.5 Everlon Recent Developments/Updates
 - 10.14.6 Everlon Competitive Strengths & Weaknesses
- 10.15 FSI Coating Technologies
 - 10.15.1 FSI Coating Technologies Details
 - 10.15.2 FSI Coating Technologies Major Business
 - 10.15.3 FSI Coating Technologies Plastic Film for Medical Application Product and Services
 - 10.15.4 FSI Coating Technologies Plastic Film for Medical Application Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.15.5 FSI Coating Technologies Recent Developments/Updates
 - 10.15.6 FSI Coating Technologies Competitive Strengths & Weaknesses
- 10.16 Permal

- 10.16.1 Permali Details
- 10.16.2 Permali Major Business
- 10.16.3 Permali Plastic Film for Medical Application Product and Services
- 10.16.4 Permali Plastic Film for Medical Application Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.16.5 Permali Recent Developments/Updates
- 10.16.6 Permali Competitive Strengths & Weaknesses
- 10.17 Spectrum
- 10.17.1 Spectrum Details
- 10.17.2 Spectrum Major Business
- 10.17.3 Spectrum Plastic Film for Medical Application Product and Services
- 10.17.4 Spectrum Plastic Film for Medical Application Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.17.5 Spectrum Recent Developments/Updates
- 10.17.6 Spectrum Competitive Strengths & Weaknesses
- 10.18 Wiicare
- 10.18.1 Wiicare Details
- 10.18.2 Wiicare Major Business
- 10.18.3 Wiicare Plastic Film for Medical Application Product and Services
- 10.18.4 Wiicare Plastic Film for Medical Application Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.18.5 Wiicare Recent Developments/Updates
- 10.18.6 Wiicare Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

- 11.1 Plastic Film for Medical Application Industry Chain
- 11.2 Plastic Film for Medical Application Upstream Analysis
 - 11.2.1 Plastic Film for Medical Application Core Raw Materials
 - 11.2.2 Main Manufacturers of Plastic Film for Medical Application Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Plastic Film for Medical Application Production Mode
- 11.6 Plastic Film for Medical Application Procurement Model
- 11.7 Plastic Film for Medical Application Industry Sales Model and Sales Channels
 - 11.7.1 Plastic Film for Medical Application Sales Model
 - 11.7.2 Plastic Film for Medical Application Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World 24GHZ Millimeter Wave Radar Module Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World 24GHZ Millimeter Wave Radar Module Production Value by Region (2021-2026) & (USD Million)

Table 3. World 24GHZ Millimeter Wave Radar Module Production Value by Region (2027-2032) & (USD Million)

Table 4. World 24GHZ Millimeter Wave Radar Module Production Value Market Share by Region (2021-2026)

Table 5. World 24GHZ Millimeter Wave Radar Module Production Value Market Share by Region (2027-2032)

Table 6. World 24GHZ Millimeter Wave Radar Module Production by Region (2021-2026) & (K Units)

Table 7. World 24GHZ Millimeter Wave Radar Module Production by Region (2027-2032) & (K Units)

Table 8. World 24GHZ Millimeter Wave Radar Module Production Market Share by Region (2021-2026)

Table 9. World 24GHZ Millimeter Wave Radar Module Production Market Share by Region (2027-2032)

Table 10. World 24GHZ Millimeter Wave Radar Module Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World 24GHZ Millimeter Wave Radar Module Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. 24GHZ Millimeter Wave Radar Module Major Market Trends

Table 13. World 24GHZ Millimeter Wave Radar Module Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World 24GHZ Millimeter Wave Radar Module Consumption by Region (2021-2026) & (K Units)

Table 15. World 24GHZ Millimeter Wave Radar Module Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World 24GHZ Millimeter Wave Radar Module Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key 24GHZ Millimeter Wave Radar Module Producers in 2025

Table 18. World 24GHZ Millimeter Wave Radar Module Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key 24GHZ Millimeter Wave Radar Module Producers in 2025

Table 20. World 24GHZ Millimeter Wave Radar Module Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global 24GHZ Millimeter Wave Radar Module Company Evaluation Quadrant

Table 22. World 24GHZ Millimeter Wave Radar Module Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and 24GHZ Millimeter Wave Radar Module Production Site of Key Manufacturer

Table 24. 24GHZ Millimeter Wave Radar Module Market: Company Product Type Footprint

Table 25. 24GHZ Millimeter Wave Radar Module Market: Company Product Application Footprint

Table 26. 24GHZ Millimeter Wave Radar Module Competitive Factors

Table 27. 24GHZ Millimeter Wave Radar Module New Entrant and Capacity Expansion Plans

Table 28. 24GHZ Millimeter Wave Radar Module Mergers & Acquisitions Activity

Table 29. United States VS China 24GHZ Millimeter Wave Radar Module Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China 24GHZ Millimeter Wave Radar Module Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China 24GHZ Millimeter Wave Radar Module Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based 24GHZ Millimeter Wave Radar Module Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers 24GHZ Millimeter Wave Radar Module Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers 24GHZ Millimeter Wave Radar Module Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers 24GHZ Millimeter Wave Radar Module Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers 24GHZ Millimeter Wave Radar Module Production Market Share (2021-2026)

Table 37. China Based 24GHZ Millimeter Wave Radar Module Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers 24GHZ Millimeter Wave Radar Module Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers 24GHZ Millimeter Wave Radar Module Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers 24GHZ Millimeter Wave Radar Module Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers 24GHZ Millimeter Wave Radar Module Production Market Share (2021-2026)

Table 42. Rest of World Based 24GHZ Millimeter Wave Radar Module Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers 24GHZ Millimeter Wave Radar Module Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers 24GHZ Millimeter Wave Radar Module Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers 24GHZ Millimeter Wave Radar Module Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers 24GHZ Millimeter Wave Radar Module Production Market Share (2021-2026)

Table 47. World 24GHZ Millimeter Wave Radar Module Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World 24GHZ Millimeter Wave Radar Module Production by Type (2021-2026) & (K Units)

Table 49. World 24GHZ Millimeter Wave Radar Module Production by Type (2027-2032) & (K Units)

Table 50. World 24GHZ Millimeter Wave Radar Module Production Value by Type (2021-2026) & (USD Million)

Table 51. World 24GHZ Millimeter Wave Radar Module Production Value by Type (2027-2032) & (USD Million)

Table 52. World 24GHZ Millimeter Wave Radar Module Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World 24GHZ Millimeter Wave Radar Module Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World 24GHZ Millimeter Wave Radar Module Production Value by Accuracy, (USD Million), 2021 & 2025 & 2032

Table 55. World 24GHZ Millimeter Wave Radar Module Production by Accuracy (2021-2026) & (K Units)

Table 56. World 24GHZ Millimeter Wave Radar Module Production by Accuracy (2027-2032) & (K Units)

Table 57. World 24GHZ Millimeter Wave Radar Module Production Value by Accuracy (2021-2026) & (USD Million)

Table 58. World 24GHZ Millimeter Wave Radar Module Production Value by Accuracy (2027-2032) & (USD Million)

Table 59. World 24GHZ Millimeter Wave Radar Module Average Price by Accuracy

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

Table 60. World 24GHZ Millimeter Wave Radar Module Average Price by Accuracy (2027-2032) & (US\$/Unit)

Table 61. World 24GHZ Millimeter Wave Radar Module Production Value by Supply Voltage, (USD Million), 2021 & 2025 & 2032

Table 62. World 24GHZ Millimeter Wave Radar Module Production by Supply Voltage (2021-2026) & (K Units)

Table 63. World 24GHZ Millimeter Wave Radar Module Production by Supply Voltage (2027-2032) & (K Units)

Table 64. World 24GHZ Millimeter Wave Radar Module Production Value by Supply Voltage (2021-2026) & (USD Million)

Table 65. World 24GHZ Millimeter Wave Radar Module Production Value by Supply Voltage (2027-2032) & (USD Million)

Table 66. World 24GHZ Millimeter Wave Radar Module Average Price by Supply Voltage (2021-2026) & (US\$/Unit)

Table 67. World 24GHZ Millimeter Wave Radar Module Average Price by Supply Voltage (2027-2032) & (US\$/Unit)

Table 68. World 24GHZ Millimeter Wave Radar Module Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World 24GHZ Millimeter Wave Radar Module Production by Application (2021-2026) & (K Units)

Table 70. World 24GHZ Millimeter Wave Radar Module Production by Application (2027-2032) & (K Units)

Table 71. World 24GHZ Millimeter Wave Radar Module Production Value by Application (2021-2026) & (USD Million)

Table 72. World 24GHZ Millimeter Wave Radar Module Production Value by Application (2027-2032) & (USD Million)

Table 73. World 24GHZ Millimeter Wave Radar Module Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World 24GHZ Millimeter Wave Radar Module Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Shenzhen CECport Technologies Basic Information, Manufacturing Base and Competitors

Table 76. Shenzhen CECport Technologies Major Business

Table 77. Shenzhen CECport Technologies 24GHZ Millimeter Wave Radar Module Product and Services

Table 78. Shenzhen CECport Technologies 24GHZ Millimeter Wave Radar Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 79. Shenzhen CECport Technologies Recent Developments/Updates
- Table 80. Shenzhen CECport Technologies Competitive Strengths & Weaknesses
- Table 81. Shanghai Fudan Microelectronics Group Basic Information, Manufacturing Base and Competitors
- Table 82. Shanghai Fudan Microelectronics Group Major Business
- Table 83. Shanghai Fudan Microelectronics Group 24GHZ Millimeter Wave Radar Module Product and Services
- Table 84. Shanghai Fudan Microelectronics Group 24GHZ Millimeter Wave Radar Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Shanghai Fudan Microelectronics Group Recent Developments/Updates
- Table 86. Shanghai Fudan Microelectronics Group Competitive Strengths & Weaknesses
- Table 87. Shenzhen Minew Technologies Basic Information, Manufacturing Base and Competitors
- Table 88. Shenzhen Minew Technologies Major Business
- Table 89. Shenzhen Minew Technologies 24GHZ Millimeter Wave Radar Module Product and Services
- Table 90. Shenzhen Minew Technologies 24GHZ Millimeter Wave Radar Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Shenzhen Minew Technologies Recent Developments/Updates
- Table 92. Shenzhen Minew Technologies Competitive Strengths & Weaknesses
- Table 93. TeraSillC Basic Information, Manufacturing Base and Competitors
- Table 94. TeraSillC Major Business
- Table 95. TeraSillC 24GHZ Millimeter Wave Radar Module Product and Services
- Table 96. TeraSillC 24GHZ Millimeter Wave Radar Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. TeraSillC Recent Developments/Updates
- Table 98. TeraSillC Competitive Strengths & Weaknesses
- Table 99. RDA Tech Basic Information, Manufacturing Base and Competitors
- Table 100. RDA Tech Major Business
- Table 101. RDA Tech 24GHZ Millimeter Wave Radar Module Product and Services
- Table 102. RDA Tech 24GHZ Millimeter Wave Radar Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. RDA Tech Recent Developments/Updates
- Table 104. RDA Tech Competitive Strengths & Weaknesses

- Table 105. Possumic Technology Basic Information, Manufacturing Base and Competitors
- Table 106. Possumic Technology Major Business
- Table 107. Possumic Technology 24GHZ Millimeter Wave Radar Module Product and Services
- Table 108. Possumic Technology 24GHZ Millimeter Wave Radar Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Possumic Technology Recent Developments/Updates
- Table 110. Possumic Technology Competitive Strengths & Weaknesses
- Table 111. Hlktech Basic Information, Manufacturing Base and Competitors
- Table 112. Hlktech Major Business
- Table 113. Hlktech 24GHZ Millimeter Wave Radar Module Product and Services
- Table 114. Hlktech 24GHZ Millimeter Wave Radar Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Hlktech Recent Developments/Updates
- Table 116. Hlktech Competitive Strengths & Weaknesses
- Table 117. Chengdu Ebyte Basic Information, Manufacturing Base and Competitors
- Table 118. Chengdu Ebyte Major Business
- Table 119. Chengdu Ebyte 24GHZ Millimeter Wave Radar Module Product and Services
- Table 120. Chengdu Ebyte 24GHZ Millimeter Wave Radar Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Chengdu Ebyte Recent Developments/Updates
- Table 122. Chengdu Ebyte Competitive Strengths & Weaknesses
- Table 123. Shenzhen Mwrangle Intelligent Basic Information, Manufacturing Base and Competitors
- Table 124. Shenzhen Mwrangle Intelligent Major Business
- Table 125. Shenzhen Mwrangle Intelligent 24GHZ Millimeter Wave Radar Module Product and Services
- Table 126. Shenzhen Mwrangle Intelligent 24GHZ Millimeter Wave Radar Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Shenzhen Mwrangle Intelligent Recent Developments/Updates
- Table 128. Shenzhen Mwrangle Intelligent Competitive Strengths & Weaknesses
- Table 129. Ferry Smart Basic Information, Manufacturing Base and Competitors
- Table 130. Ferry Smart Major Business

Table 131. Ferry Smart 24GHZ Millimeter Wave Radar Module Product and Services

Table 132. Ferry Smart 24GHZ Millimeter Wave Radar Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Ferry Smart Recent Developments/Updates

Table 134. Ferry Smart Competitive Strengths & Weaknesses

Table 135. Global Key Players of 24GHZ Millimeter Wave Radar Module Upstream (Raw Materials)

Table 136. Global 24GHZ Millimeter Wave Radar Module Typical Customers

Table 137. 24GHZ Millimeter Wave Radar Module Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. 24GHZ Millimeter Wave Radar Module Picture
- Figure 2. World 24GHZ Millimeter Wave Radar Module Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World 24GHZ Millimeter Wave Radar Module Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World 24GHZ Millimeter Wave Radar Module Production (2021-2032) & (K Units)
- Figure 5. World 24GHZ Millimeter Wave Radar Module Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World 24GHZ Millimeter Wave Radar Module Production Value Market Share by Region (2021-2032)
- Figure 7. World 24GHZ Millimeter Wave Radar Module Production Market Share by Region (2021-2032)
- Figure 8. North America 24GHZ Millimeter Wave Radar Module Production (2021-2032) & (K Units)
- Figure 9. Europe 24GHZ Millimeter Wave Radar Module Production (2021-2032) & (K Units)
- Figure 10. China 24GHZ Millimeter Wave Radar Module Production (2021-2032) & (K Units)
- Figure 11. Japan 24GHZ Millimeter Wave Radar Module Production (2021-2032) & (K Units)
- Figure 12. South Korea 24GHZ Millimeter Wave Radar Module Production (2021-2032) & (K Units)
- Figure 13. Southeast Asia 24GHZ Millimeter Wave Radar Module Production (2021-2032) & (K Units)
- Figure 14. China Taiwan 24GHZ Millimeter Wave Radar Module Production (2021-2032) & (K Units)
- Figure 15. 24GHZ Millimeter Wave Radar Module Market Drivers
- Figure 16. Factors Affecting Demand
- Figure 17. World 24GHZ Millimeter Wave Radar Module Consumption (2021-2032) & (K Units)
- Figure 18. World 24GHZ Millimeter Wave Radar Module Consumption Market Share by Region (2021-2032)
- Figure 19. United States 24GHZ Millimeter Wave Radar Module Consumption (2021-2032) & (K Units)

Figure 20. China 24GHZ Millimeter Wave Radar Module Consumption (2021-2032) & (K Units)

Figure 21. Europe 24GHZ Millimeter Wave Radar Module Consumption (2021-2032) & (K Units)

Figure 22. Japan 24GHZ Millimeter Wave Radar Module Consumption (2021-2032) & (K Units)

Figure 23. South Korea 24GHZ Millimeter Wave Radar Module Consumption (2021-2032) & (K Units)

Figure 24. ASEAN 24GHZ Millimeter Wave Radar Module Consumption (2021-2032) & (K Units)

Figure 25. India 24GHZ Millimeter Wave Radar Module Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of 24GHZ Millimeter Wave Radar Module by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for 24GHZ Millimeter Wave Radar Module Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for 24GHZ Millimeter Wave Radar Module Markets in 2025

Figure 29. United States VS China: 24GHZ Millimeter Wave Radar Module Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: 24GHZ Millimeter Wave Radar Module Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: 24GHZ Millimeter Wave Radar Module Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers 24GHZ Millimeter Wave Radar Module Production Market Share 2025

Figure 33. China Based Manufacturers 24GHZ Millimeter Wave Radar Module Production Market Share 2025

Figure 34. Rest of World Based Manufacturers 24GHZ Millimeter Wave Radar Module Production Market Share 2025

Figure 35. World 24GHZ Millimeter Wave Radar Module Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World 24GHZ Millimeter Wave Radar Module Production Value Market Share by Type in 2025

Figure 37. One Transmitter and One Receiver Type

Figure 38. One Transmitter and Two Receivers Type

Figure 39. Other

Figure 40. World 24GHZ Millimeter Wave Radar Module Production Market Share by Type (2021-2032)

Figure 41. World 24GHZ Millimeter Wave Radar Module Production Value Market Share by Type (2021-2032)

Figure 42. World 24GHZ Millimeter Wave Radar Module Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World 24GHZ Millimeter Wave Radar Module Production Value by Accuracy, (USD Million), 2021 & 2025 & 2032

Figure 44. World 24GHZ Millimeter Wave Radar Module Production Value Market Share by Accuracy in 2025

Figure 45. Accuracy: Below 0.2 m

Figure 46. Accuracy: Equal or Above 0.2 m

Figure 47. World 24GHZ Millimeter Wave Radar Module Production Market Share by Accuracy (2021-2032)

Figure 48. World 24GHZ Millimeter Wave Radar Module Production Value Market Share by Accuracy (2021-2032)

Figure 49. World 24GHZ Millimeter Wave Radar Module Average Price by Accuracy (2021-2032) & (US\$/Unit)

Figure 50. World 24GHZ Millimeter Wave Radar Module Production Value by Supply Voltage, (USD Million), 2021 & 2025 & 2032

Figure 51. World 24GHZ Millimeter Wave Radar Module Production Value Market Share by Supply Voltage in 2025

Figure 52. Supply Voltage: Below 3 V

Figure 53. Supply Voltage: 3-5 V

Figure 54. Supply Voltage: Above 5 V

Figure 55. World 24GHZ Millimeter Wave Radar Module Production Market Share by Supply Voltage (2021-2032)

Figure 56. World 24GHZ Millimeter Wave Radar Module Production Value Market Share by Supply Voltage (2021-2032)

Figure 57. World 24GHZ Millimeter Wave Radar Module Average Price by Supply Voltage (2021-2032) & (US\$/Unit)

Figure 58. World 24GHZ Millimeter Wave Radar Module Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World 24GHZ Millimeter Wave Radar Module Production Value Market Share by Application in 2025

Figure 60. ADAS

Figure 61. Smart Home

Figure 62. Smart Elderly Care

Figure 63. Other

Figure 64. World 24GHZ Millimeter Wave Radar Module Production Market Share by Application (2021-2032)

Figure 65. World 24GHZ Millimeter Wave Radar Module Production Value Market Share by Application (2021-2032)

Figure 66. World 24GHZ Millimeter Wave Radar Module Average Price by Application (2021-2032) & (US\$/Unit)

Figure 67. 24GHZ Millimeter Wave Radar Module Industry Chain

Figure 68. 24GHZ Millimeter Wave Radar Module Procurement Model

Figure 69. 24GHZ Millimeter Wave Radar Module Sales Model

Figure 70. 24GHZ Millimeter Wave Radar Module Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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