

Global 24GHZ Millimeter Wave Radar Module Market Growth 2026-2032

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Abstracts

The global 24GHZ Millimeter Wave Radar Module market size is predicted to grow from US\$ 1158 million in 2025 to US\$ 1904 million in 2032; it is expected to grow at a CAGR of 7.5% from 2026 to 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.

United States market for 24GHZ Millimeter Wave Radar Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for 24GHZ Millimeter Wave Radar Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for 24GHZ Millimeter Wave Radar Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key 24GHZ Millimeter Wave Radar Module players cover Shenzhen CECport Technologies, Shanghai Fudan Microelectronics Group, Shenzhen Minew Technologies, TeraSillC, RDA Tech, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "24GHZ Millimeter Wave Radar Module Industry Forecast" looks at past sales and reviews total world 24GHZ Millimeter Wave Radar Module sales in 2025, providing a comprehensive analysis by region and market sector of projected 24GHZ Millimeter Wave Radar Module sales for 2026 through 2032. With 24GHZ Millimeter Wave Radar Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 24GHZ Millimeter Wave Radar Module industry.

This Insight Report provides a comprehensive analysis of the global 24GHZ Millimeter Wave Radar Module 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 24GHZ Millimeter Wave Radar Module portfolios and capabilities, market

entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 24GHZ Millimeter Wave Radar Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 24GHZ Millimeter Wave Radar Module 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 24GHZ Millimeter Wave Radar Module.

This report presents a comprehensive overview, market shares, and growth opportunities of 24GHZ Millimeter Wave Radar Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

One Transmitter and One Receiver Type

One Transmitter and Two Receivers Type

Other

Segmentation by Accuracy:

Accuracy: Below 0.2 m

Accuracy: Equal or Above 0.2 m

Segmentation by Supply Voltage:

Supply Voltage: Below 3 V

Supply Voltage: 3-5 V

Supply Voltage: Above 5 V

Segmentation by Application:

ADAS

Smart Home

Smart Elderly Care

Other

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.

Shenzhen CECport Technologies

Shanghai Fudan Microelectronics Group

Shenzhen Minew Technologies

TeraSiIC

RDA Tech

Possumic Technology

Hlktech

Chengdu Ebyte

Shenzhen Mwrangle Intelligent

Ferry Smart

Key Questions Addressed in this Report

What is the 10-year outlook for the global 24GHZ Millimeter Wave Radar Module market?

What factors are driving 24GHZ Millimeter Wave Radar Module market growth, globally and by region?

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

How do 24GHZ Millimeter Wave Radar Module market opportunities vary by end market size?

How does 24GHZ Millimeter Wave Radar Module break out by Type, by Application?

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