

Global 24GHz Millimetre Wave Radar Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 24GHz Millimetre Wave Radar market size is expected to reach \$ 4511 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

A 24GHz millimeter-wave (mmWave) radar is a sensor device operating in the frequency band near 24GHz that measures a target's distance, speed, angle, and motion status by transmitting and receiving mmWave signals. It primarily consists of RF chips, antennas, signal processing chips, control software, radomes, and connectors. Common applications include automotive blind-spot monitoring, lane-change assistance, parking assistance, human presence detection, automatic door sensing, security surveillance, traffic speed monitoring, industrial ranging, and smart home sensing. In 2025, global sales volume for 24GHz mmWave radars is approximately 9.8 million units, with an average unit price of around \$287, an average industry capacity utilization rate of about 69.4%, and a gross margin of approximately 29.8%. Upstream enterprises operate in sectors such as RF chips, mmWave antennas, PCBs, packaging and testing, connectors, radome materials, microcontrollers (MCUs), algorithm software, and electronic manufacturing services. Downstream enterprises operate in fields including automotive electronics, intelligent transportation, security equipment, industrial automation, smart buildings, smart homes, unmanned systems, and consumer electronics sensing modules. The product cost structure is broken down as follows: RF and baseband chips (approx. 26%), antennas and PCBs (16%), MCUs and power management devices (9%), radomes and structural components (8%), algorithm software and calibration (10%), packaging, testing, and reliability verification (9%), labor and manufacturing costs (7%), quality control and certification (5%), packaging, logistics, and after-sales service (4%), and R&D and administrative expenses (6%). The demand list includes automotive short-range radar, blind-spot monitoring radar, parking

assistance radar, automatic door sensing radar, human presence detection radar, traffic speed monitoring radar, industrial ranging radar, security intrusion detection radar, and smart home sensing radar. The downstream customer list includes OEMs, automotive Tier 1 suppliers, smart door control equipment manufacturers, security camera manufacturers, traffic equipment integrators, industrial automation companies, smart home brands, building control system providers, and electronic module manufacturers. In terms of business opportunities, policy drivers include the widespread adoption of active automotive safety features, the development of smart transportation, energy-saving management in smart buildings, upgrades to security sensing capabilities, and industrial automation transformations. Technological innovation is driven by low-cost CMOS RF chips, on-chip antenna integration, multi-target recognition algorithms, low-power design, radar-camera fusion, and miniaturized module packaging. Meanwhile, shifting consumer demands are reflected in the growing need for enhanced safety, lower false-alarm rates, stronger privacy protection, all-weather sensing capabilities, lower costs, and easier sensor deployment.

In 2025, 24GHz millimeter-wave radar remains a key product category in the short-range sensing market, characterized by structural adjustments in the automotive sector and continued expansion into non-automotive fields. In the automotive OEM market, requirements for spectrum migration and technological upgrades regarding in-vehicle 24GHz ultra-wideband radar?combined with the fact that 77GHz and 79GHz radars are increasingly handling medium-to-long-range and high-resolution sensing tasks?mean that the market share of traditional 24GHz short-range automotive radar in high-end models will gradually decline. However, in applications such as automatic doors, security systems, smart buildings, human presence detection, industrial ranging, traffic sensing, and consumer electronics, 24GHz radar retains advantages?including low cost, compact size, low power consumption, mature algorithms, a robust supply chain, and ease of deployment?ensuring that demand will not disappear rapidly. Over the next five to seven years, the industry's growth focus will shift from simple automotive blind-spot monitoring to broader sensing applications, particularly in areas such as energy-efficient smart buildings, elderly care, restroom and conference room occupancy detection, security intrusion detection, industrial equipment collision avoidance, and smart lighting control. While price competition will continue to squeeze profit margins for low-end, general-purpose modules, companies capable of delivering highly integrated RF chips, stable algorithms, anti-interference designs, customization, and mass production will maintain healthy profitability. Overall, the 24GHz millimeter-wave radar sector is not a market characterized by explosive growth, but rather a stable market defined by sustained volume in mature applications, gradual upgrades in the automotive sector, and increasing penetration in non-automotive sectors.

This report studies the global 24GHz Millimetre Wave Radar production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 24GHz Millimetre Wave Radar 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 Millimetre Wave Radar that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 24GHz Millimetre Wave Radar total production and demand, 2021-2032, (Million Units)

Global 24GHz Millimetre Wave Radar total production value, 2021-2032, (USD Million)

Global 24GHz Millimetre Wave Radar production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global 24GHz Millimetre Wave Radar consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: 24GHz Millimetre Wave Radar domestic production, consumption, key domestic manufacturers and share

Global 24GHz Millimetre Wave Radar production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global 24GHz Millimetre Wave Radar production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global 24GHz Millimetre Wave Radar production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global 24GHz Millimetre Wave Radar 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 Valeo (FR), HELLA (DE), Bosch (DE), Continental (DE), AKASAKATEC (JP), Huizhou Desay SV Automotive (CN), Intibeam (CN), Hasco Group (CN), STONKAM (CN), TungThih Electronic (TW), 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 Millimetre Wave Radar market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 Millimetre Wave Radar Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 24GHz Millimetre Wave Radar Market, Segmentation by Type:

Short Range Millimetre Wave Radar

Medium Range Millimetre Wave Radar

Global 24GHz Millimetre Wave Radar Market, Segmentation by Modulation:

FMCW

Pulse Doppler

CW

Global 24GHz Millimetre Wave Radar Market, Segmentation by Max Detection Range:

30 - 70 m

> 70 m

Global 24GHz Millimetre Wave Radar Market, Segmentation by Application:

Smart Home

Smart Elderly Care

Industrial Liquid Level Measurement

Smart Transportation

Others

Companies Profiled:

Valeo (FR)

HELLA (DE)

Bosch (DE)

Continental (DE)

AKASAKATEC (JP)

Huizhou Desay SV Automotive (CN)

Intibeam (CN)

Hasco Group (CN)

STONKAM (CN)

TungThih Electronic (TW)

WHST (CN)

ANNGIC (CN)

Nano Radar (CN)

ADASTECH (CN)

Oculii (US)

Shenzhen Apsoto (CN)

Xiamen Insightica (CN)

Key Questions Answered:

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

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