

Global mmWave Radar Chip Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G92E90BFDE39EN.html>

Date: January 2026

Pages: 124

Price: US\$ 4,480.00 (Single User License)

ID: G92E90BFDE39EN

Abstracts

The global mmWave Radar Chip market size is expected to reach \$ 1690 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032). Millimeter wave radar chip refers to a highly integrated RF and mixed signal chip designed for radar systems, operating in the millimeter wave frequency band. It typically covers frequency bands such as 24GHz, 60GHz, and 76GHz. The chip usually integrates key modules such as RF front-end, phase-locked loop and frequency synthesis, baseband and filtering, and analog-to-digital converter for transmitting and receiving ends. It is used to obtain distance, velocity, and angle information for FMCW and other radar systems. In 2025, global mmWave Radar Chip production reached approximately 189.64 M Units, with an average global market price of around US\$ 5.85 per Unit.

The demand for millimeter wave radar chips is highly concentrated on in vehicle ADAS and autonomous driving radar. It is estimated that the shipment of in vehicle radar will exceed 140 million units by 2024, and the number of single vehicle radars is still increasing, directly driving the scaling up of millimeter wave radar SoCs and transceivers. The technology and supply and demand structure are upgrading synchronously. On the one hand, driven by spectrum and regulations, the new design of short distance 24GHz for vehicles is gradually being phased out, and the mainstream is fully shifting towards the 77GHz and 79GHz bands and utilizing wider bandwidth to improve resolution. On the other hand, the industry is accelerating from traditional multi chip architectures to single-chip highly integrated radar SoCs and higher channel count platforms. At the same time, high-resolution and imaging radars are penetrating from L2 to L4 scenarios, driving the demand for collaborative design of higher performance computing power, stronger anti-interference capabilities, and more complex antenna arrays. The focus of competition is shifting from simple RF indicators to system level link budgets, algorithm stack adaptation, vehicle reliability, and cost reduction speed.

This report studies the global mmWave Radar Chip production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global mmWave Radar Chip total production and demand, 2021-2032, (M Units)

Global mmWave Radar Chip total production value, 2021-2032, (USD Million)

Global mmWave Radar Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (M Units), (based on production site)

Global mmWave Radar Chip consumption by region & country, CAGR, 2021-2032 & (M Units)

U.S. VS China: mmWave Radar Chip domestic production, consumption, key domestic manufacturers and share

Global mmWave Radar Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M Units)

Global mmWave Radar Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

Global mmWave Radar Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

This report profiles key players in the global mmWave Radar Chip 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 Infineon, NXP, TI, STMicroelectronics, indie, Nanjing Maikeke Microelectronics Technology, Gatlin Microelectronics Technology, CETC 38th Research Institute, Skyrelay (beijing)Technology, Hangzhou Andar Technologies, 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 mmWave Radar Chip market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global mmWave Radar Chip Market, Segmentation by Type:

79 GHz

77 GHz

60 GHz

24 GHz

Global mmWave Radar Chip Market, Segmentation by Platform Classification:

Vehicle Mounted Millimeter Wave Radar

Shipborne Millimeter Wave Radar

Airborne Millimeter Wave Radar

Other

Global mmWave Radar Chip Market, Segmentation by Radar Ranging:

Remote Radar (LRR)

Medium Range Radar (MRR)

Short Range Radar (SRR)

Global mmWave Radar Chip Market, Segmentation by Application:

Automotive

Drone

Robot

Other

Companies Profiled:

Infineon

NXP

TI

STMicroelectronics

indie

Nanjing Maikeke Microelectronics Technology

Gatlin Microelectronics Technology

CETC 38th Research Institute

Skyrelay (beijing)Technology

Hangzhou Andar Technologies

SGR Semiconductors

Zhuhai Microcreative Technology

Ningbo Gekong Intelligent Technology

Stormicro

Key Questions Answered:

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

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