

Global 77GHz Radar Chip Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global 77GHz Radar Chip market size was valued at US\$ 67.3 million in 2023 and is forecast to a readjusted size of USD 188 million by 2030 with a CAGR of 15.9% during review period.

A 77GHz radar chip is a semiconductor device designed to operate at a frequency of 77 gigahertz, commonly used in automotive radar systems for applications such as adaptive cruise control, collision avoidance, blind-spot detection, and autonomous driving features. These radar chips transmit and receive electromagnetic signals at 77GHz to detect objects, measure distances, and provide critical data for vehicle safety and driver assistance functions.

Market Drivers for 77GHz Radar Chips:

Automotive Safety Systems: The increasing demand for advanced driver assistance systems (ADAS) and autonomous vehicles drives the adoption of 77GHz radar chips in automotive safety applications to enhance collision avoidance, pedestrian detection, lane-keeping assistance, and other safety features.

High Resolution and Accuracy: 77GHz radar chips offer high resolution, accuracy, and reliability in object detection, distance measurement, and velocity estimation, enabling precise sensing capabilities for adaptive cruise control, parking assistance, and emergency braking systems.

Regulatory Standards: Compliance with regulatory mandates for vehicle safety, such as Euro NCAP requirements and NHTSA regulations, propels the integration of 77GHz radar chips in vehicles to meet safety ratings, improve crash avoidance capabilities, and enhance overall road safety.

Urban and Highway Driving: The versatility of 77GHz radar chips in urban environments, highway driving scenarios, and complex traffic conditions supports the

development of intelligent transportation systems (ITS) and smart city initiatives focused on enhancing traffic flow, reducing accidents, and improving road infrastructure. Weather and Environmental Resilience: The robust performance of 77GHz radar chips in adverse weather conditions, low visibility situations, and challenging environments, such as fog, rain, and snow, ensures reliable operation and safety-critical functions for vehicles equipped with radar-based systems.

Integration with Sensor Fusion: 77GHz radar chips are often integrated with other sensor technologies, such as cameras, lidar, and ultrasonic sensors, in sensor fusion systems to provide comprehensive perception capabilities, redundancy, and enhance the overall sensing accuracy and reliability of autonomous driving systems.

Cost Efficiency and Scalability: Advances in semiconductor manufacturing processes, design optimization, and economies of scale drive down the cost of producing 77GHz radar chips, making them more affordable, scalable, and accessible for automotive OEMs, tier-1 suppliers, and aftermarket applications.

Market Challenges for 77GHz Radar Chips:

Interference and Clutter: Mitigating interference from external sources, mitigating clutter from nearby objects or reflections, and improving signal processing algorithms are ongoing challenges in optimizing the performance and reliability of 77GHz radar chips for accurate object detection and tracking.

Resolution and Range: Balancing the trade-off between resolution, range, and field of view in 77GHz radar systems presents challenges in achieving optimal sensing performance, long-range detection capabilities, and high-definition imaging for various automotive applications.

Signal Processing and Data Fusion: Processing and fusing data from multiple sensors, including radar, lidar, cameras, and ultrasonic sensors, to enable robust object recognition, environment perception, and decision-making algorithms in autonomous driving systems require sophisticated algorithms and computational resources.

Regulatory Compliance: Adhering to evolving regulatory standards, industry guidelines, and safety certifications for automotive radar systems, including radio frequency (RF) emissions, electromagnetic compatibility (EMC), and cybersecurity requirements, poses challenges for manufacturers of 77GHz radar chips.

Environmental Testing and Validation: Conducting extensive testing, validation, and verification procedures to ensure the performance, reliability, and safety of 77GHz radar chips under diverse environmental conditions, temperature extremes, and real-world driving scenarios is essential but poses challenges in comprehensive testing protocols and validation methodologies.

Sensor Fusion and Perception Challenges: Integrating data from heterogeneous sensor modalities, addressing sensor alignment, calibration, synchronization issues, and

developing robust sensor fusion algorithms to enhance object recognition, classification, and situational awareness in complex driving environments are ongoing challenges in deploying 77GHz radar chips in autonomous vehicles.

Supply Chain Resilience: Ensuring a resilient and secure supply chain for critical components, such as 77GHz radar chips, sourcing raw materials, semiconductor fabrication, and assembly processes, and addressing potential disruptions, shortages, or geopolitical factors affecting the availability and affordability of radar chip technologies pose challenges for automotive manufacturers and suppliers.

This report is a detailed and comprehensive analysis for global 77GHz Radar Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global 77GHz Radar Chip market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global 77GHz Radar Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global 77GHz Radar Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2019-2030

Global 77GHz Radar Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 77GHz Radar Chip

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 77GHz Radar Chip market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies

covered as a part of this study include Infineon, Texas Instruments, NXP Semiconductors, STMicroelectronics, Calterah, etc.

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

Market Segmentation

77GHz Radar Chip market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- 2D
- 3D
- Others

Market segment by Application

- Automotive
- IoT
- Others

Major players covered

- Infineon
- Texas Instruments
- NXP Semiconductors
- STMicroelectronics
- Calterah

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 77GHz Radar Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 77GHz Radar Chip, with price, sales quantity, revenue, and global market share of 77GHz Radar Chip from 2019 to 2024.

Chapter 3, the 77GHz Radar Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 77GHz Radar Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019 to 2024. and 77GHz Radar Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 77GHz Radar Chip.

Chapter 14 and 15, to describe 77GHz Radar Chip sales channel, distributors, customers, research findings and conclusion.

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