

Global Microwave Radar Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Microwave Radar Sensors market size is expected to reach \$ 7169 million by 2032, rising at a market growth of 9.5% CAGR during the forecast period (2026-2032).

In 2025, global Microwave Radar Sensor output reached about 160 million units and global capacity of around 200 million units. The average price is about USD 23 per unit, with gross margins near 36%. Microwave Radar Sensors are electronic sensing devices that use high-frequency electromagnetic waves (typically in the GHz range) to detect, measure, and track the position, motion, speed, or presence of objects by analyzing reflected signals (Doppler shift, phase, or time delay). They are widely used in automotive (ADAS, blind-spot detection), industrial automation, smart buildings, security systems, and consumer electronics due to their ability to operate in low-visibility conditions such as darkness, fog, or dust. The supply chain of microwave radar sensors begins upstream with semiconductor materials (e.g., silicon, GaAs, SiGe), RF components (MMICs, antennas, oscillators), and PCB substrates; midstream involves chip design, wafer fabrication, RF module integration, and sensor packaging by specialized semiconductor and electronics manufacturers; downstream includes system integration into vehicles, IoT devices, industrial equipment, and smart infrastructure, followed by distribution to OEMs and end users across automotive, manufacturing, aerospace, healthcare, and security sectors.

This report studies the global Microwave Radar Sensors production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Microwave Radar Sensors total production and demand, 2021-2032, (K Units)

Global Microwave Radar Sensors total production value, 2021-2032, (USD Million)

Global Microwave Radar Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Microwave Radar Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Microwave Radar Sensors domestic production, consumption, key domestic manufacturers and share

Global Microwave Radar Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Microwave Radar Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Microwave Radar Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Microwave Radar Sensors 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 Bosch (Germany), Continental (Germany), Denso (Japan), Valeo (France), ZF Friedrichshafen (Germany), Aptiv (Ireland), Hitachi Astemo (Japan), Veoneer (USA), Infineon Technologies (Germany), NXP Semiconductors (Netherlands), 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 Microwave Radar Sensors 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 Microwave Radar Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Microwave Radar Sensors Market, Segmentation by Type:

X/K Band

24 GHz

60 GHz

77-81 GHz

>100 GHz

Global Microwave Radar Sensors Market, Segmentation by Detection Range:

50 m

Global Microwave Radar Sensors Market, Segmentation by Application:

Automotive

Industrial

Healthcare

Aerospace & Defense

Consumer Electronics

Others

Companies Profiled:

Bosch (Germany)

Continental (Germany)

Denso (Japan)

Valeo (France)

ZF Friedrichshafen (Germany)

Aptiv (Ireland)

Hitachi Astemo (Japan)

Veoneer (USA)

Infineon Technologies (Germany)

NXP Semiconductors (Netherlands)

Texas Instruments (USA)

STMicroelectronics (Switzerland)

Analog Devices (USA)

Renesas Electronics (Japan)

ON Semiconductor (USA)

Nisshinbo Micro Devices (Japan)

RFbeam Microwave (Germany)

Smart Microwave Sensors (Germany)

Huawei (China)

Calterah Semiconductor (China)

Key Questions Answered:

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

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