

# Global Industrial Millimeter Wave Radar Sensor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Industrial Millimeter Wave Radar Sensor market size is expected to reach \$ 1551 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

In 2025, global Industrial Millimeter Wave Radar Sensor production reached approximately 20,000 k units with an average global market price of around US\$ 50 per unit, and a gross profit margin of approximately 10%-30%. Industrial Millimeter Wave Radar Sensors are 24GHz, 60GHz, or 77-81GHz RF sensing modules used to measure distance, level, presence, and motion in harsh industrial environments. They enable non-contact detection through dust, steam, vibration, and low visibility where optical sensors struggle, supporting applications such as tank level measurement, conveyor monitoring, collision avoidance for AGVs, perimeter safety, and material flow detection. A typical sensor integrates antennas, mmWave transceiver ICs, signal processing, and industrial interfaces such as IO-Link, 4-20mA, 0-10V, or industrial Ethernet. Key requirements include measurement stability, immunity to interference and multipath, wide temperature tolerance, IP-rated housing, EMC compliance, and reliable long-term drift performance. Advanced sensors provide angle information, multi-target tracking, and configurable detection zones to improve safety and automation reliability.

The industrial chain of Industrial Millimeter Wave Radar Sensors includes upstream components such as mmWave semiconductors, antennas, high-frequency substrates, passives, enclosures, connectors, EMC shielding, thermal materials, and calibration fixtures. Midstream manufacturing covers module design, SMT assembly, RF testing, calibration, firmware programming, enclosure sealing, and compliance certification. Downstream users include industrial automation OEMs, process industries, AGV and robotics manufacturers, logistics facilities, and safety system integrators. Services

include application engineering, installation commissioning, parameter tuning, diagnostics, firmware updates, and lifecycle support.

The Industrial Millimeter Wave Radar Sensor market is growing with automation, smart factories, and demand for reliable sensing in dusty, steamy, and harsh environments. Compared with photoelectric or ultrasonic sensors, mmWave radar offers better robustness to contamination and visibility, supporting more stable level and presence detection. Growth is driven by AGVs/AMRs, conveyor automation, and safety applications requiring multi-target tracking and configurable zones. Trends include wider adoption of IO-Link and industrial Ethernet connectivity, more edge processing for filtering multipath and interference, and compact 60GHz/77GHz sensors for short-range high-resolution detection. In process industries, radar level sensing benefits from non-contact measurement and reduced maintenance. Constraints include cost sensitivity in high-volume proximity sensing, RF complexity for certification, and deployment challenges in metallic multipath environments. Overall, growth is steady, with value concentrating in ruggedized designs, intelligent algorithms, and easy integration with industrial control systems.

This report studies the global Industrial Millimeter Wave Radar Sensor production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Industrial Millimeter Wave Radar Sensor total production and demand, 2021-2032, (K Units)

Global Industrial Millimeter Wave Radar Sensor total production value, 2021-2032, (USD Million)

Global Industrial Millimeter Wave Radar Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Industrial Millimeter Wave Radar Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Industrial Millimeter Wave Radar Sensor domestic production, consumption, key domestic manufacturers and share

Global Industrial Millimeter Wave Radar Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Industrial Millimeter Wave Radar Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Industrial Millimeter Wave Radar Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Industrial Millimeter Wave Radar Sensor 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, Continental, Denso, FORVIA HELLA, Baumer, NXP, Infineon, WNC, Smartmicro, IFM, 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 Industrial Millimeter Wave Radar Sensor 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 Industrial Millimeter Wave Radar Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Industrial Millimeter Wave Radar Sensor Market, Segmentation by Type:

Front Radar Sensor

Corner Radar Sensor

Others

#### Global Industrial Millimeter Wave Radar Sensor Market, Segmentation by Frequency Band:

24GHz

60GHz

77GHz

Others

#### Global Industrial Millimeter Wave Radar Sensor Market, Segmentation by Range:

Short-Range Radar (SRR)

Mid-Range Radar (MRR)

Long-Range Radar (LRR)

#### Global Industrial Millimeter Wave Radar Sensor Market, Segmentation by Application:

Automotive Industry

Transportation and Logistics

Aerospace and Defense

Industrial Automation

Others

**Companies Profiled:**

Bosch

Continental

Denso

FORVIA HELLA

Baumer

NXP

Infineon

WNC

Smartmicro

IFM

Texas Instruments

SICK AG

Pepperl+Fuchs

Leuze Electronic

Inxpect

CONTROLWAY

InnoSenT

Banner Engineering Corp

Aumovio

**Key Questions Answered:**

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

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