

Global MIMO Radar IC Market Growth 2026-2032

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Abstracts

The global MIMO Radar IC market size is predicted to grow from US\$ 1101 million in 2025 to US\$ 1857 million in 2032; it is expected to grow at a CAGR of 8.0% from 2026 to 2032.

Multiple-input multiple-output (MIMO) radar chips are high-performance radar chips that support multi-channel signal transmission and reception. They enhance spatial diversity and anti-jamming capabilities through multiple antenna arrays and are widely used in military, aviation, meteorological monitoring, and intelligent transportation fields. Global sales are projected to reach approximately 25 million units in 2025, with an average selling price of approximately US\$45 and a capacity utilization rate of approximately 82%. Upstream companies in this chip industry primarily involve semiconductor manufacturers, RF component suppliers, and antenna array manufacturers, covering fields such as electronic materials, microprocessors, and communication technologies. Downstream companies mainly include defense equipment manufacturers, aerospace companies, and intelligent transportation system suppliers. The gross profit margin of radar chips is approximately 40% to 45%. The product cost structure mainly includes chip design and R&D costs (approximately 35%), RF component and antenna system costs (30%), semiconductor processing and assembly costs (20%), and testing and verification costs (15%). With the increasing demands for intelligence, networking, and automation, the demand for MIMO radar chips is constantly rising, especially in military-civilian integration applications. Downstream demand includes military reconnaissance, airspace surveillance, weather warning, autonomous driving, and intelligent transportation; downstream customers include defense agencies, airlines, automakers, meteorological bureaus, and companies involved in smart city construction worldwide. In terms of business opportunities, policy drivers reflect the global emphasis on advanced radar technology, while technological innovation is driven by the integration of signal processing technology and artificial intelligence, leading to continuous improvements in MIMO radar chip performance. Changing consumer demands are

reflected in the need for high resolution, long-range monitoring, and strong anti-interference capabilities, driving market growth in demand for higher-performance chips.

With the widespread application of Multiple-Input Multiple-Output (MIMO) technology in radar systems, MIMO radar chips, as a core component of this technology, are becoming a key technology in multiple industries and application scenarios. Particularly in the military, aerospace, and intelligent transportation fields, the market demand for MIMO radar chips is experiencing rapid growth due to increasing demands for precise detection, remote monitoring, low interference, and high reliability. With the advancement of 5G communication, autonomous driving, and smart city construction, the application prospects of MIMO radar chips are further expanding. Especially in autonomous driving, automatic navigation systems, and advanced meteorological monitoring systems, MIMO radar chips provide crucial technical support for improving sensing accuracy and system stability. Technological innovations, particularly breakthroughs in signal processing and data fusion technologies, are significantly improving chip performance, enabling them to meet higher detection accuracy and the tracking needs of more targets, further accelerating market adoption. At the policy level, increased investment in defense construction, intelligent transportation, and security monitoring by countries worldwide provides policy support and financial guarantees for the market growth of MIMO radar chips. Overall, the MIMO radar chip market is expected to show steady growth in the coming years, especially driven by surging demand in emerging markets and accelerated technological iteration, and is projected to become one of the most promising technologies in the electronics and communications industry.

LP Information, Inc. (LPI) ' newest research report, the "MIMO Radar IC Industry Forecast" looks at past sales and reviews total world MIMO Radar IC sales in 2025, providing a comprehensive analysis by region and market sector of projected MIMO Radar IC sales for 2026 through 2032. With MIMO Radar IC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world MIMO Radar IC industry.

This Insight Report provides a comprehensive analysis of the global MIMO Radar IC landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on MIMO Radar IC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global MIMO Radar IC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for MIMO Radar IC and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global MIMO Radar IC.

This report presents a comprehensive overview, market shares, and growth opportunities of MIMO Radar IC market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Up to 76GHZ

76-81GHZ

Above 81GHZ

Segmentation by Arrangement:

Centralized MIMO Radar Chip

Distributed MIMO Radar Chip

Segmentation by Effective Bandwidth:

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