

Global Radar Transceivers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Radar Transceivers market size is expected to reach \$ 5082 million by 2032, rising at a market growth of 12.9% CAGR during the forecast period (2026-2032).

A Radar Transceiver is a single-chip integrated circuit fabricated using semiconductor processes such as RFCMOS and SiGe BiCMOS, serving as the core radio frequency (RF) front-end of a radar system. It integrates core RF components including power amplifiers, low-noise amplifiers, voltage-controlled oscillators, mixers, filters, and transmit/receive (T/R) switches on a single silicon wafer. It performs signal up-conversion and power amplification in the transmit chain, as well as low-noise amplification, down-conversion, filtering, and gain control in the receive chain. In transmit mode, it converts baseband signals into high-frequency RF signals through up-conversion and amplifies them for output. In receive mode, it conducts low-noise amplification, down-conversion, and filtering on weak echo signals received by the antenna, restoring them into identifiable intermediate-frequency or baseband signals. The integrated T/R switch enables switching between transmit and receive modes to protect the highly sensitive receive channels. The chip requires external peripheral components such as antennas, high-frequency filters, and processors to form a complete radar RF front-end. Radar transceivers can be categorized into microwave, millimeter-wave, and terahertz types by operating frequency band, and into superheterodyne, zero-IF, and digital beamforming architectures by circuit topology. Their performance directly determines the detection sensitivity, signal-to-noise ratio, operating range, and anti-interference capability of radar systems, making them fundamental core chips for enabling miniaturized, high-precision sensing in modern radar applications. In 2025, the global sales volume of Radar Transceivers was 135 million units, with an average price of 17 US dollars per unit, and the average gross profit margin of the industry was approximately 50%.

The global Radar Transceivers market is centered on core trends including technological upgrading, scenario expansion, and ecosystem collaboration. Technically, SiP packaging and advanced RFCMOS processes have gained wide adoption, with the 77-80GHz frequency band becoming the mainstream for automotive applications, and 4D imaging architectures being deployed. Integrated AI edge signal processing capabilities have improved detection accuracy and anti-interference performance. In terms of applications, automotive 4D radar is rapidly penetrating L2+ to L4 autonomous driving, while demand from industrial testing, medical imaging, consumer electronics and other scenarios has boomed, driving the evolution of products toward multi-band and multi-form development. Ecologically, deep integration with sensors and AI algorithms enables miniaturized and low-power design, supporting the upgrading of radar systems toward higher precision and intelligence.

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

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

Highlights and key features of the study

Global Radar Transceivers total production and demand, 2021-2032, (Million Units)

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

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

Global Radar Transceivers consumption by region & country, CAGR, 2021-2032 & (Million Units)

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

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

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

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

This report profiles key players in the global Radar Transceivers 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 NXP Semiconductors, Infineon Technologies, Analog Devices, Texas Instruments, STMicroelectronics, RFbeam Microwave GmbH, Bosch, Lytid, Calterah Semiconductor, Uhnder, Inc., 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 Radar Transceivers market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Radar Transceivers Market, Segmentation by Type:

24GHz

57-71 GHz

76-81GHz

Others

Global Radar Transceivers Market, Segmentation by Integration Architecture:

Single-Chip MMIC Transceiver

Multi-Chip Cascaded Transceiver

Global Radar Transceivers Market, Segmentation by Modulation Scheme:

FMCW Radar Transceiver

Pulse-Doppler Radar Transceiver

Phase-Coded Radar Transceiver

Global Radar Transceivers Market, Segmentation by Application:

Car Traffic

Aerospace

Ship Sailing

Others

Companies Profiled:

NXP Semiconductors

Infineon Technologies

Analog Devices

Texas Instruments

STMicroelectronics

RFbeam Microwave GmbH

Bosch

Lytid

Calterah Semiconductor

Uhnder, Inc.

Mitsubishi Electric

Renesas Electronics

Asahi Kasei

Possumic Technology Co., Ltd.

SGR Semiconductors Inc.

AirTouch (Shanghai) Intelligent Technology Co., Ltd.

Magnichip Co., Ltd.

Key Questions Answered:

1. How big is the global Radar Transceivers market?
2. What is the demand of the global Radar Transceivers market?
3. What is the year over year growth of the global Radar Transceivers market?

4. What is the production and production value of the global Radar Transceivers market?
5. Who are the key producers in the global Radar Transceivers market?
6. What are the growth factors driving the market demand?

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