

Global 4D Imaging Radar-on-chip (RoC) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 4D Imaging Radar-on-chip (RoC) market size is expected to reach \$ 985 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).

4D imaging radar chips (RoC) integrate full-range radar sensing capabilities into a single chip, featuring small size, low power consumption, and high-speed processing. These chips can accurately detect distance, speed, azimuth, and pitch angles, supporting advanced driver assistance systems (ADAS) and autonomous driving functions. The 4D imaging radar chip (RoC) industry chain includes upstream semiconductor materials, radar chip design, wafer manufacturing, and packaging. Midstream involves chip manufacturers integrating signal processing, calibration, and interface modules. Downstream applications cover passenger cars, commercial trucks, autonomous shuttles, intelligent transportation systems, and ADAS modules. The industry chain also includes chip testing, calibration, software integration, and reliability verification services to ensure high accuracy and stable performance. In 2025, the global production of 4D imaging radar chips (RoC) was approximately 25,714,000 units, with a global average market price of approximately US\$21 per unit. The gross profit margins of major companies in the industry ranged from 30% to 50%. In 2025, the global production capacity of 4D imaging radar chips (RoC) was approximately 32,143,000 units.

Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US\$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by

Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent growth. Memory declined with 12.6 percent year over year. In 2022, all geographical regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US\$142.1 billion, up 17.0% year-on-year, sales in Europe were US\$53.8 billion, up 12.6% year-on-year, and sales in Japan were US\$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US\$336.2 billion, down 2.0% year-on-year.

This report studies the global 4D Imaging Radar-on-chip (RoC) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 4D Imaging Radar-on-chip (RoC) 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 4D Imaging Radar-on-chip (RoC) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 4D Imaging Radar-on-chip (RoC) total production and demand, 2021-2032, (K Units)

Global 4D Imaging Radar-on-chip (RoC) total production value, 2021-2032, (USD Million)

Global 4D Imaging Radar-on-chip (RoC) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 4D Imaging Radar-on-chip (RoC) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 4D Imaging Radar-on-chip (RoC) domestic production, consumption, key domestic manufacturers and share

Global 4D Imaging Radar-on-chip (RoC) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 4D Imaging Radar-on-chip (RoC) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 4D Imaging Radar-on-chip (RoC) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 4D Imaging Radar-on-chip (RoC) 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, Uhnder, Arbe, Vayyar,

Calterah, 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 4D Imaging Radar-on-chip (RoC) 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 4D Imaging Radar-on-chip (RoC) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 4D Imaging Radar-on-chip (RoC) Market, Segmentation by Type:

16 nm

22 nm

Others

Global 4D Imaging Radar-on-chip (RoC) Market, Segmentation by Frequency Band:

24GHz

77GHz

79GHz

Global 4D Imaging Radar-on-chip (RoC) Market, Segmentation by Detection Range:

Short-distance RoC:

Medium-distance RoC: 30?80 m

Long-distance RoC: > 80 m

Global 4D Imaging Radar-on-chip (RoC) Market, Segmentation by Application:

Car

Drone

Consumer Electronics

Military Industry

Other

Companies Profiled:

NXP

Uhnder

Arbe

Vayyar

Calterah

Key Questions Answered:

1. How big is the global 4D Imaging Radar-on-chip (RoC) market?
2. What is the demand of the global 4D Imaging Radar-on-chip (RoC) market?
3. What is the year over year growth of the global 4D Imaging Radar-on-chip (RoC) market?
4. What is the production and production value of the global 4D Imaging Radar-on-chip (RoC) market?
5. Who are the key producers in the global 4D Imaging Radar-on-chip (RoC) market?
6. What are the growth factors driving the market demand?

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