

Global 4D Imaging Radar-on-chip (RoC) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 4D Imaging Radar-on-chip (RoC) market size was valued at US\$ 556 million in 2025 and is forecast to a readjusted size of US\$ 985 million by 2032 with a CAGR of 9.3% during review period.

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 is a detailed and comprehensive analysis for global 4D Imaging Radar-on-chip (RoC) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 4D Imaging Radar-on-chip (RoC) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 4D Imaging Radar-on-chip (RoC) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 4D Imaging Radar-on-chip (RoC) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 4D Imaging Radar-on-chip (RoC) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 4D Imaging Radar-on-chip (RoC)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 4D Imaging Radar-on-chip (RoC) market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

4D Imaging Radar-on-chip (RoC) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

16 nm

22 nm

Others

Market segment by Frequency Band

24GHz

77GHz

79GHz

Market segment by Detection Range

- Short-distance RoC:
- Medium-distance RoC: 30?80 m
- Long-distance RoC: > 80 m

Market segment by Application

- Car
- Drone
- Consumer Electronics
- Military Industry
- Other

Major players covered

- NXP
- Uhnder
- Arbe
- Vayyar
- Calterah

Market segment by region, regional analysis covers

- North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 4D Imaging Radar-on-chip (RoC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 4D Imaging Radar-on-chip (RoC), with price, sales quantity, revenue, and global market share of 4D Imaging Radar-on-chip (RoC) from 2021 to 2026.

Chapter 3, the 4D Imaging Radar-on-chip (RoC) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 4D Imaging Radar-on-chip (RoC) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 4D Imaging Radar-on-chip (RoC) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 4D Imaging Radar-on-chip (RoC).

Chapter 14 and 15, to describe 4D Imaging Radar-on-chip (RoC) sales channel, distributors, customers, research findings and conclusion.

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