

Global K-Band CW Radar 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 K-Band CW Radar market size was valued at US\$ 1008 million in 2025 and is forecast to a readjusted size of US\$ 1743 million by 2032 with a CAGR of 8.1% during review period.

In 2025, global K-Band CW Radar production reached approximately 4.00 million units, with an average global market price of around US\$245 per unit.

The gross profit margin of major companies in the industry is between 45%–65%.

In 2025, the global production capacity of K-band CW radar was approximately 5.33 million units.

K-Band Continuous Wave Radars are microwave sensing devices operating in the K-band frequency range that transmit and receive continuous electromagnetic waves to detect motion, speed, distance, or presence of objects. They are widely used in traffic monitoring, industrial automation, security sensing, and short-range detection applications.

The industrial chain of K-Band CW Radar includes upstream RF components such as MMIC chips, oscillators, antennas, substrates, and passive components. The midstream focuses on module integration, calibration, signal conditioning, and packaging. Downstream applications cover traffic enforcement systems, industrial sensors, smart infrastructure, security systems, and consumer electronics, supported by system integration and maintenance services.

This report is a detailed and comprehensive analysis for global K-Band CW Radar 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 K-Band CW Radar market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global K-Band CW Radar 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 K-Band CW Radar 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 K-Band CW Radar 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 K-Band CW Radar

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 K-Band CW Radar 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 Infineon Technologies, Texas Instruments, NXP Semiconductors, Analog Devices, STMicroelectronics, onsemi, Bosch Sensortec, Renesas Electronics, Silicon Radar, RFbeam Microwave, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

K-Band CW Radar 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

Discrete CW Radar Module

Integrated CW Radar Sensor

CW Radar-on-Chip Solution

Market segment by Signal Processing

Analog CW Radar

Digital CW Radar

DSP-Based CW Radar

Market segment by Antenna Configuration

Integrated Antenna Radar

External Antenna Radar

Phased Antenna Radar

Market segment by Application

Traffic Monitoring & Speed Enforcement Industry

Industrial Automation & Sensing Industry

Security & Surveillance Industry

Consumer Electronics & Smart Devices Industry

Other

Major players covered

Infineon Technologies

Texas Instruments

NXP Semiconductors

Analog Devices

STMicroelectronics

onsemi

Bosch Sensortec

Renesas Electronics

Silicon Radar

RFbeam Microwave

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 K-Band CW Radar product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of K-Band CW Radar, with price, sales quantity, revenue, and global market share of K-Band CW Radar from 2021 to 2026.

Chapter 3, the K-Band CW Radar competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the K-Band CW Radar 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 K-Band CW Radar 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 K-Band CW Radar.

Chapter 14 and 15, to describe K-Band CW Radar sales channel, distributors, customers, research findings and conclusion.

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