

Global K-Band CW Radar Market Growth 2026-2032

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Abstracts

The global K-Band CW Radar market size is predicted to grow from US\$ 959 million in 2025 to US\$ 1704 million in 2032; it is expected to grow at a CAGR of 8.6% from 2026 to 2032.

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.

United States market for K-Band CW Radar is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for K-Band CW Radar is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for K-Band CW Radar is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key K-Band CW Radar players cover Infineon Technologies, Texas Instruments, NXP Semiconductors, Analog Devices, STMicroelectronics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global K-Band CW Radar 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 K-Band CW Radar portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global K-Band CW Radar market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for K-Band CW Radar 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 K-Band CW Radar.

This report presents a comprehensive overview, market shares, and growth opportunities of K-Band CW Radar market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Discrete CW Radar Module

Integrated CW Radar Sensor

CW Radar-on-Chip Solution

Segmentation by Signal Processing:

Analog CW Radar

Digital CW Radar

DSP-Based CW Radar

Segmentation by Antenna Configuration:

Integrated Antenna Radar

External Antenna Radar

Phased Antenna Radar

Segmentation by Application:

Traffic Monitoring & Speed Enforcement Industry

Industrial Automation & Sensing Industry

Security & Surveillance Industry

Consumer Electronics & Smart Devices Industry

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Infineon Technologies

Texas Instruments

NXP Semiconductors

Analog Devices

STMicroelectronics

onsemi

Bosch Sensortec

Renesas Electronics

Silicon Radar

RFbeam Microwave

Key Questions Addressed in this Report

What is the 10-year outlook for the global K-Band CW Radar market?

What factors are driving K-Band CW Radar market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do K-Band CW Radar market opportunities vary by end market size?
How does K-Band CW Radar break out by Type, by Application?

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