+357 96 030922
info@marketpublishers.com

X-Band Radar Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

https://marketpublishers.com/r/X894D50FF287EN.html
Date: June 2025
Pages: 180
Price: US$ 4,850.00 (Single User License)
ID: X894D50FF287EN

Abstracts

The Global X-Band Radar Market was valued at USD 6.4 billion in 2024 and is estimated to grow at a CAGR of 4.3% to reach USD 9.6 billion by 2034. Market expansion is being fueled by the surge in global defense spending and the increasing integration of autonomous technologies into military infrastructure. Countries are globally upgrading their defense capabilities by replacing outdated radar systems with more advanced X-band technologies. These radars are known for delivering superior tracking accuracy and high-resolution imaging, making them highly suitable for applications such as missile defense, drone interception, naval combat, and artillery tracking. In addition to enhanced defense operations, X-band radars are also being deployed across a growing range of unmanned platforms for battlefield awareness and high-speed target detection.

Demand for X-band radar systems continues to rise due to the global increase in drone, autonomous ground, and surface vehicle deployments. These advanced systems are compact, high-resolution, and built for precision, which makes them ideal for integration into autonomous platforms used in military and border patrol missions. They are increasingly being utilized for maritime defense operations such as detecting underwater threats, navigating hazardous zones, and executing anti-submarine missions. Rising interest in these technologies is also driven by a need for better coastal surveillance and underwater object identification.

Airborne X-band radar systems segment emerged as the fastest-growing category, anticipated to register a CAGR of 5.1% through 2034. Their use has expanded significantly in military aviation, where they enable surveillance, target recognition, and strategic intelligence gathering. Additionally, these radars are becoming critical in maritime and environmental applications, including rescue missions, forest and ocean

+357 96 030922
info@marketpublishers.com

monitoring, and disaster assessment. Ongoing technological advancements like radar miniaturization and next-generation signal processing continue to broaden the usability of airborne radar systems across both defense and civilian sectors, boosting overall demand.

The AESA radar segment generated USD 3.5 billion in 2024. These radar systems have become the preferred option for modern defense forces due to their ability to transmit and receive multiple signals. This multifunctional capacity allows AESA radars to handle surveillance, object tracking, and threat identification without requiring separate systems. Governments globally are channeling substantial investments into transitioning from older radar technologies to more advanced AESA-based solutions. This move is especially evident in air and missile defense programs, where superior performance and real-time data are crucial to national security.

Germany X-Band Radar Market was valued at USD 360°.3 million in 2024, supported by the nation’s firm commitment to defense technology and its standing in international military coalitions. Germany’s increased funding for defense modernization efforts is boosting demand for high-performance radar systems. X-band radars are playing a critical role in enhancing the country’s air defense systems and safeguarding territorial borders. Moreover, Germany’s robust engineering and manufacturing sectors are integrating X-band radar systems into industrial automation to improve detection capabilities and enhance process monitoring in precision-driven environments.

Key companies actively shaping the competitive landscape of the X-Band Radar Market include Leonardo S.p.A., Bharat Electronics Limited, Hensoldt AG, Northrop Grumman Corporation, Thales, Kelvin Hughes Limited, Japan Radio Company Limited, Furuno Electric Company Ltd., Vaisala Oyj, Hanwha Systems, Reutech Radar Systems (PTY) Ltd., Indira Sistemas, S.A, Saab AB, Terma A/S, Israel Aerospace Industries, and RTX Corporation. To maintain and grow their market position, leading X-band radar manufacturers are adopting several strategic measures. Many are focusing on R&D to improve radar precision, reduce unit size, and boost energy efficiency. Partnerships with defense ministries and military contractors support custom development and bulk supply agreements. Companies are also expanding their production capabilities to meet growing international demand while ensuring technology transfer compliance. Mergers, acquisitions, and long-term government contracts are pursued to broaden technological offerings and establish regional dominance.

Companies Mentioned

+357 96 030922
info@marketpublishers.com

Bharat Electronics Limited, Furuno Electric Company Ltd., Hanwha Systems, Hensoldt AG, Indira Sistemas, S.A, Israel Aerospace Industries, Japan Radio Company Limited, Kelvin Hughes Limited, Leonardo S.p.A., Northrop Grumman Corporation, Reutech Radar Systems (PTY) Ltd., RTX Corporation, Saab AB, Terma A/S, Thales, Vaisala Oyj

+357 96 030922
info@marketpublishers.com

Contents

Report Content

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

CHAPTER 9 MARKET ESTIMATES AND FORECAST, BY REGION, 2021 – 2034 (USD MILLION & THOUSAND UNITS)

+357 96 030922
info@marketpublishers.com

CHAPTER 10 COMPANY PROFILES

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: X-Band Radar Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

Product link: https://marketpublishers.com/r/X894D50FF287EN.html

Price: US$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/X894D50FF287EN.html