

# Global X-Band Radar Market Size study & Forecast, by Application, Type, Array, and Regional Forecasts 2025-2035

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## Abstracts

The Global X-Band Radar Market is valued at approximately USD 6.32 billion in 2024 and is poised to grow at a steady CAGR of 4.10% over the forecast period 2025-2035. X-band radar systems, known for their short wavelength and high-resolution capabilities, have steadily gained traction as indispensable tools in both civil and military domains. These radars operate in the 8.0 to 12.0 GHz frequency range and are instrumental in applications demanding precision—ranging from maritime vessel tracking to airborne weather monitoring, and battlefield surveillance. With heightened emphasis on national security, defense modernization programs, and technological superiority, nations across the globe are investing aggressively in upgrading their radar infrastructure, where X-band systems play a central role.

A growing number of cross-border tensions and asymmetrical warfare scenarios are compelling governments to ramp up their reconnaissance and surveillance capabilities, leading to a spike in defense procurement budgets for radar systems. X-band radars, owing to their compact form factor and accuracy, are increasingly integrated into mobile platforms, missile guidance systems, and naval defense vessels. For instance, sea-based X-band radar units enable real-time threat detection and strategic missile interception, while mobile units are being rapidly deployed for ground-based target acquisition and monitoring. Concurrently, the commercial sector is beginning to embrace X-band radars for aviation traffic management and remote sensing, further diversifying the market scope. However, the market faces headwinds from high capital costs and regulatory complexities associated with electromagnetic spectrum management.

Geographically, North America continues to dominate the X-Band Radar Market, owing

to extensive defense expenditure by the United States and the presence of leading radar manufacturers such as Raytheon Technologies and Northrop Grumman. The U.S. Department of Defense's persistent focus on enhancing air and missile defense systems is a key growth enabler. Europe, led by countries like Germany, the UK, and France, follows closely, with NATO-supported joint development projects and growing border surveillance requirements fueling demand. Meanwhile, Asia Pacific is forecasted to exhibit the fastest CAGR during the forecast timeline, driven by escalating regional security threats, rapid military modernization in China and India, and increased investment in indigenous radar production programs. Strategic collaborations between domestic defense agencies and global technology providers are further amplifying regional market growth.

Major market player included in this report are:

Northrop Grumman Corporation

Leonardo S.p.A.

Raytheon Technologies Corporation

Saab AB

Japan Radio Company Ltd.

Thales Group

BAE Systems plc

Rheinmetall AG

Lockheed Martin Corporation

Elbit Systems Ltd.

Israel Aerospace Industries

Terma A/S

Airbus Defense and Space

Mitsubishi Electric Corporation

Harris Corporation

Global X-Band Radar Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Application:

Defense

Government

Commercial

By Type:

Mobile X-band Radar

Sea-based X-band Radar

By Array:

Active Electronically Scanned Array (AESA)

Passive Electronically Scanned Array (PESA)

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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