

# X-Band Radar Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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## Abstracts

### Market Overview:

The global X-band radar market size reached US\$ 5.7 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 7.0 Billion by 2028, exhibiting a growth rate (CAGR) of 2.8% during 2023-2028.

X-band is a class of radio waves that generally fall between the frequency range of 8ghz to 12ghz. X-band radar systems operate in this frequency range and are primarily used in maritime navigation for military and civil applications. X-band radars are installed on most large-sized research vessels, along with several offshore systems. Initially, these radars were developed for ship traffic navigation and control. Over the past decades, however, non-coherent X-band and S-band marine radars have been used in the monitoring of traffic and navigation of ships in coastal areas. The addition of certain software and hardware components have further enabled the utilization of these radars for measuring currents and waves. They are also being used by governments, academia and other industries for supporting offshore platform operations, monitoring oil spills and studying air-sea interactions.

At present, numerous investments across the globe are being made for the development of innovative weather detection radars. The advanced X-band Weather Radar is one such innovation which was recently launched by the Finland-based weather, environmental, and industrial measurement company, Vaisala Oyj. It offers more accurate precipitation measurement and improved data for flood warnings for hydro-electric power plants. Apart from this, the frequency band is also used in airborne or spaceborne imaging radars based on the synthetic aperture radar (SAR). For instance, in May 2019, the Indian Space Research Organization (ISRO) launched the

Radar Imaging Satellite 2B, or RISAT 2B, an all-weather imaging satellite, which is fitted with an X-band SAR. The radar will help in providing minute details about the size of objects present on the earth, structures and movement, to complement the data collected through standard optical remote-sensing satellites.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global X-band radar market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on type, array, system component, and application.

#### Breakup by Type:

Non-Portable  
Portable

#### Breakup by Array:

Active Electronically Scanned Array (AESA)  
Passive Electronically Scanned Array (PESA)

#### Breakup by System Component:

Communications System  
Command and Control system

#### Breakup by Application:

Defense  
Government  
Commercial

#### Breakup by Region:

Asia Pacific  
Europe  
North America

#### Key Questions Answered in This Report

1. What is the size of the global X-band radar market in 2022?

2. What is the expected growth rate of the global X-band radar market during 2023-2028?
3. What are the key factors driving the global X-band radar market?
4. What has been the impact of COVID-19 on the global X-band radar market?
5. What is the breakup of the global X-band radar market based on the system component?
6. What is the breakup of the global X-band radar market based on the application?
7. What are the key regions in the global X-band radar market?
8. Who are the key players/companies in the global X-band radar market?

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