Synthetic Aperture Radar Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-06-14 | 147 pages | IMARC Group

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Report description:

The global synthetic aperture radar market size reached US$ 3.8 Billion in 2022. Looking forward, IMARC Group expects the market to reach US$ 7.0 Billion by 2028, exhibiting a growth rate (CAGR) of 10.6% during 2023-2028.

Synthetic aperture radar (SAR) is an imaging technique used to collect data and produce fine resolution images actively from a radar system. It transmits and receives back microwave signals from the surface of the Earth using active sensors. At present, it is utilized in various applications, ranging from studying icebergs and tracking the paths of oil spills into sensitive marshes to mapping the wetlands. It can also be used in unfavorable environmental conditions to detect changes in habitat, water levels and moisture, and analyze the effects of natural or human disturbances after earthquakes or sinkhole openings.

Synthetic Aperture Radar Market Trends:
SAR is extensively utilized by scientists, geologists, and researchers to remotely map and study the reflectivity of different objects or environments with high spatial resolution through the emission and reception of electromagnetic (EM) signals. This, coupled with rising concerns about climatic changes, environmental degradation, and disaster monitoring, represents one of the key factors driving the use of SAR to assess changing ecological impacts. Apart from this, SAR technology is employed in the agriculture sector to identify differences in surface roughness and improve field plowing, soil tillage, and crop harvesting. Moreover, governing agencies of several countries are encouraging the adoption of modern agricultural practices, which is contributing to the market growth. Furthermore, SAR instruments are gaining traction over conventional optical imaging technology and observation satellites as they can provide detailed information about the surfaces of the Earth. Besides this, due to rising geopolitical tensions and increasing security concerns, defense organizations across the globe are relying on SAR satellites for surveillance, reconnaissance, and precision targeting, which is impelling the market growth.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each sub-segment of the global synthetic aperture radar market report,

along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on component, mode, frequency band, platform and application.

Breakup by Component:

Antenna
Receiver
Transmitter

Breakup by Mode:

Single Mode
Multi-Mode

Breakup by Frequency Band:

X Band
L Band
C Band
S Band
K, Ku, Ka Band
VHF/UHF Band
Others

Breakup by Platform:

Airborne
Ground

Breakup by Application:

Defense
Commercial

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others

Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:
The competitive landscape of the industry has also been examined along with the profiles of the key players being Airbus SE, Aselsan A., BAE Systems plc, Cobham Limited, General Atomics, Israel Aerospace Industries, L3Harris Technologies Inc., Leonardo S.p.A., Lockheed Martin Corporation, Northrop Grumman Corporation, Raytheon Technologies Corporation, Saab AB and Thales Group.

Key Questions Answered in This Report

1. What was the size of the global synthetic aperture radar market in 2022?
2. What is the expected growth rate of the global synthetic aperture radar market during 2023-2028?
3. What are the key factors driving the global synthetic aperture radar market?
4. What has been the impact of COVID-19 on the global synthetic aperture radar market?
5. What is the breakup of the global synthetic aperture radar market based on the component?
6. What is the breakup of the global synthetic aperture radar market based on the mode?
7. What is the breakup of the global synthetic aperture radar market based on the platform?
8. What is the breakup of the global synthetic aperture radar market based on the application?
9. What are the key regions in the global synthetic aperture radar market?
10. Who are the key players/companies in the global synthetic aperture radar market?

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