

South & Central America Synthetic Aperture Radar Market Forecast to 2030 - Regional Analysis - by Component (Receiver, Transmitter, and Antenna), Frequency Band (X Band, L Band, C Band, S Band, and Others), Application (Commercial and Defense), Platform (Ground and Airborne), and Mode (Single and Multi)

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Abstracts

The South & Central America synthetic aperture radar market was valued at US\$ 237.95 million in 2022 and is expected to reach US\$ 443.81 million by 2030; it is estimated to register a CAGR of 8.1% from 2022 to 2030.

Rising Development of Dual-Band SAR Fuels South & Central America Synthetic Aperture Radar Market

Dual-band synthetic aperture radar (SAR) technology operates in two frequency bands simultaneously, allowing for enhanced imaging capabilities and improved image quality compared to single-band SAR systems. The use of dual-band SAR offers several advantages. Firstly, it enables better target discrimination and identification, as the combination of two different frequency bands provides more detailed and accurate imaging. This is particularly valuable in applications such as military surveillance, border control, and maritime monitoring, where the ability to distinguish between objects and detect subtle changes is crucial.

Secondly, dual-band SAR technology enhances the system's ability to penetrate and detect objects under challenging environmental conditions. Utilizing two different frequency bands, SAR systems can overcome limitations posed by factors such as

vegetation cover, weather conditions, and surface roughness. This increased robustness allows for reliable imaging even in adverse conditions, expanding the range of applications for SAR technology. Moreover, the improved image quality offered by dual-band SAR systems facilitates better interpretation and analysis of the acquired data. This is particularly beneficial in applications such as disaster management, environmental monitoring, and infrastructure planning, where accurate and detailed information is vital for decision-making. Thus, dual-band synthetic aperture radar (SAR) technology has emerged as a significant advancement in the synthetic aperture radar market, presenting new opportunities for market growth and expansion.

South & Central America Synthetic Aperture Radar Market Overview

The SAM synthetic aperture radar market is segmented into Brazil, Argentina, and the Rest of SAM. The Caatinga biome is an important environment in Brazil's semi-arid regions. It has substantially degraded as a result of human activity and is now a decertifying region. Thus, monitoring the change in the Caatinga biome has become crucial for its sustainable development. The estimation of aboveground biomass (AGB) using conventional methods is laborious and damaging. Optical and radar remote sensing techniques are capable of estimating and correlating vegetation.

The government of Argentina focuses on the development of SAR to generate important information in several fields, including infrastructure, natural disaster monitoring, and agriculture. For example, in July 2023, Minister of Science, Technology, and Innovation Daniel Filmus signed an agreement on behalf of the Argentine company VENG with Indian company Suhora to commercialize SAOCOM scenes in new markets. From this agreement, SAOCOM technology reach will expand. Exporting the radar technology of Argentina's satellites will most likely lead to more foreign currency and more work for Argentina. The SAOCOM satellites have a synthetic aperture radar antenna that receives information in Band L. Thus, the rising application of synthetic aperture radar drives the synthetic aperture radar market in SAM.

South & Central America Synthetic Aperture Radar Market Revenue and Forecast to 2030 (US\$ Million)

South & Central America Synthetic Aperture Radar Market Segmentation

The South & Central America synthetic aperture radar market is categorized into component, frequency band, application, platform, mode, and country.

Based on component, the South & Central America synthetic aperture radar market is categorized into receiver, transmitter, and antenna. The antenna segment held the largest market share in 2022.

In terms of frequency band, the South & Central America synthetic aperture radar market is categorized into x band, l band, c band, s band, and others. The x band segment held the largest market share in 2022.

By application, the South & Central America synthetic aperture radar market is segmented into commercial and defense. The defense segment held a larger market share in 2022.

Based on platform, the South & Central America synthetic aperture radar market is bifurcated into ground and airborne. The airborne segment held a larger market share in 2022.

In terms of mode, the South & Central America synthetic aperture radar market is bifurcated into single and multi. The multi segment held a larger market share in 2022.

By country, the South & Central America synthetic aperture radar market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America synthetic aperture radar market share in 2022.

BAE Systems Plc, Leonardo SpA, Lockheed Martin Corp, Raytheon Technologies Corp, Thales SA, and Saab AB are some of the leading companies operating in the South & Central America synthetic aperture radar market.

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