

Aviation Weather Radar - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029

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Report description:

The Aviation Weather Radar Market size is estimated at USD 205.54 million in 2024, and is expected to reach USD 247.08 million by 2029, growing at a CAGR of 3.75% during the forecast period (2024-2029).

The need for the protection of aircraft from harsh weather conditions is one of the main drivers for the market. Over the years, there have been many instances where unpredicted weather conditions have either led to disturbances in aircraft movements or, in some cases, have damaged the aircraft as a whole. Such incidents made the airports procure weather radars to ensure safety in aircraft operations.

Each aircraft has a radar antenna located in the nose (radome) of the aircraft. Signals from the antenna are processed by a computer and presented on a screen to be viewed by the pilots. Additionally, the growth in the number of aircraft orders may drive the demand in the market during the coming years.

Aircraft Weather Radar Market Trends

Military Aviation is Likely to Register High Growth Rate Over the Forecast Period

The growth of military aviation in recent times, owing to rising geopolitical tensions across the world as well as ongoing military modernization programs aimed at procuring advanced aircraft globally, will lead to an increase in the demand for advanced aircraft in this sector with advanced capabilities. In the present scenario, there has been a significant increase in the number of aircraft deliveries. According to reports from Airbus to date, the company has received orders for 2,003 military aircraft, out of which the company has delivered 1,757 aircraft worldwide. In addition, estimates provided by Aviation Week Network's Fleet

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Discovery database highlight 3,659 manned military aircraft currently under contract for delivery over the next decade globally.

The increase in the number of military aircraft has led to manufacturers developing advanced aviation weather radars for aircraft, which are mounted on the nose of the military aircraft and provide them an edge to quickly calculate their next move in the event of adverse weather conditions. In recent times, Pulse-Doppler radar systems have been used in military aircraft around the world. The APG-68 Fire Control Radar is a medium-range pulse Doppler radar in one of the most popular fighter aircraft, the F-16 Fighting Falcon. The APG -68 radar installed in the F-16 provides the pilot with many functions, which include weapons fire control, weather detection, electronic counter-countermeasures (ECCM), Ground Moving Target Indicator (GMTI), and tracking objects on land, sea, and air. Thus, such advancements will likely lead to the market witnessing significant growth during the forecast period.

Asia-Pacific to Register the Highest CAGR During the Forecast Period

Asia-Pacific is expected to register the highest CAGR during the forecast period. The region is fast-growing in terms of aviation activity. In commercial aviation, China and India are projected to displace the United States and the United Kingdom, respectively, to become the largest and third-largest aviation markets, respectively, during the forecast period. The fleet procurement plans of the airlines and expanding airport infrastructure in these countries are also driving the growth of the procurement of commercial aviation radars, both from airports and airlines. For instance, In January 2022, China is experiencing a new round of airport construction and expansion projects. The fourth phase of Shanghai Pudong International Airport's expansion is expected to facilitate 130 million annual passengers by 2030. In East China's Fujian Province, Xiamen has started new airport construction in Xiang'an. As of now, eight construction projects are going on in Xiang'an with a total investment of USD 9.76 billion. In addition, many militaries in the region are procuring weather radars on a large scale, thus generating demand for aviation weather radars. For instance, in June 2021, the Indian Ministry of Defense signed a contract with Mahindra Telephonic to procure 11 airport surveillance radars for the Indian Navy and the Indian Coast Guard. Installation of these radars will increase the air domain awareness around airfields and enhance safety and efficiency in flying operations of the Navy and the Coast Guard. On account of all these factors, the region is expected to grow at a faster pace compared to other regions during the forecast period.

Aircraft Weather Radar Industry Overview

The aviation weather radar market is consolidated with major players such as Honeywell International Inc., Collins Aerospace (RTX Corporation), L3Harris Technologies Inc., Leonardo S.p.A., and Garmin Ltd.. dominating more than 70% of the market share. The number of companies producing weather radars for aviation applications is less, which makes the market concentrated. Companies are extending their product capabilities to attract different aircraft manufacturers. For Instance In 2022, Spire Global received a five-year multimillion-dollar contract to provide weather forecasts for TCOM, an intelligence, surveillance, and reconnaissance (ISR) firm based in the US. The company will likely provide weather forecast services at 10 sites where TCOM operates aerostats, which are aircraft that use a lifting gas to become airborne. Such developments are anticipated to alter the current competitive dynamics of the market players.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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