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Global Active Phased Array Weather Radar Market Growth (Status and Outlook) 2026-2032

https://marketpublishers.com/r/GBBD7033C43CEN.html
Date: October 2026
Pages: 114
Price: US$ 3,660.00 (Single User License)
ID: GBBD7033C43CEN

Abstracts

The global Active Phased Array Weather Radar market size is predicted to grow from US$ 529 million in 2025 to US$ 1010 million in 2032; it is expected to grow at a CAGR of 9.9% from 2026 to 2032.

Active phased array weather radar is an advanced meteorological detection system based on active phased array technology. By configuring independent transmit/receive modules on each element of the antenna array, it achieves electronic beam scanning, enabling rapid coverage of a large airspace within seconds without mechanical rotation. Compared to traditional weather radar, it features fast scanning speed, high flexibility, strong multi-polarization capability, and high reliability. It can simultaneously track multiple meteorological targets, accurately identify precipitation types and atmospheric microphysical properties, and provide crucial data support for monitoring severe convective weather such as rainstorms and typhoons, as well as disaster prevention and mitigation. The gross profit margin for active phased array weather radar is approximately between 60% and 75%. The single-line production capacity of active phased array weather radar is approximately 10-15 units per year, with a gross profit margin roughly between 60% and 75%. The upstream of active phased array weather radar includes suppliers of electronic components and materials such as microwave power amplifiers, low-noise amplifiers, T/R modules, antenna arrays, and signal processing software. The core components, such as system integration, calibration, testing, and operating software platform development, are handled by radar manufacturers. Downstream applications primarily involve national and local meteorological bureaus, water resources departments, research institutions, and disaster prevention and mitigation units, with applications in precipitation monitoring, storm warnings, typhoon tracking, and reservoir flood control. The entire industry chain has high technological barriers, and market demand continues to grow with the

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improvement of meteorological monitoring accuracy and the development of disaster prevention capabilities.

United States market for Active Phased Array Weather Radar is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Active Phased Array Weather Radar is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Active Phased Array Weather Radar is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Active Phased Array Weather Radar players cover Raytheon Company, Honeywell, Leonardo, GAMIC, Vaisala, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LPI (LP Information)' newest research report, the “Active Phased Array Weather Radar Industry Forecast” looks at past sales and reviews total world Active Phased Array Weather Radar sales in 2025, providing a comprehensive analysis by region and market sector of projected Active Phased Array Weather Radar sales for 2026 through 2032. With Active Phased Array Weather Radar sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Active Phased Array Weather Radar industry.

This Insight Report provides a comprehensive analysis of the global Active Phased Array Weather Radar landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Active Phased Array Weather Radar portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Active Phased Array Weather Radar market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Active Phased Array Weather Radar and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging

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pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Active Phased Array Weather Radar.

This report presents a comprehensive overview, market shares, and growth opportunities of Active Phased Array Weather Radar market by product type, application, key players and key regions and countries.

Market Segmentation

Segmentation by Type:

Single Polarization

Dual Polarization

Multi-Polarization

Segmentation by Installation Platform:

Fixed Ground Platform

Mobile Platform

Segmentation by Operating Frequency Band:

S-Band

C-Band

X-Band

Segmentation by Application:

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Meteorology and Disaster Prevention

Aerospace

Military

Scientific Research

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

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France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Raytheon Company

Honeywell

Leonardo

GAMIC

Vaisala

JRC

FURUNO

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Glarun Technology

Huayun METSTAR Radar (Beijing) Company

Aerospace New Sky Technology

Sun Create Electronics

Guangdong Narui Radar Technology

Chengdu Invant Future Radar Technology

Zhejiang Huasheng Radar

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