

Global Phased-Array Weather Radar Equipment Market Growth 2026-2032

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Abstracts

The global Phased-Array Weather Radar Equipment market size is predicted to grow from US\$ 181 million in 2025 to US\$ 485 million in 2032; it is expected to grow at a CAGR of 14.3% from 2026 to 2032.

Phased-array weather radar equipment refers to ground-based or mobile meteorological radar systems built around phased-array antennas, electronic beam steering, digital beamforming, dual-polarization or full-polarimetric measurement, rapid volume scanning, and weather-target retrieval algorithms. These systems are designed to detect and monitor precipitation, severe convective storms, storm cells, hail, wind shear, downbursts, low-level turbulence, localized heavy rainfall, and other high-impact weather phenomena with high temporal and spatial resolution. Typical product forms include fixed S-, C-, and X-band phased-array weather radars, mobile X-band dual-polarization phased-array systems, airport weather radars, hydrological rainfall radars, low-altitude micro-meteorological radars, weather-modification radars, and radar-control, signal-processing, data-product, nowcasting, and multi-radar networking software delivered together with the equipment. This study focuses on radar equipment and integrated systems that use phased-array electronic scanning for meteorological, hydrological, aviation-weather, and low-altitude safety applications.

Based on our research, phased-array weather radar equipment represents a generational shift in meteorological sensing rather than a simple extension of conventional Doppler weather radar. The core value of this technology lies in electronic beam steering, fast volume scanning, dual-polarization or full-polarimetric measurement, and the ability to observe rapidly evolving convective systems with much higher temporal resolution. Conventional mechanically scanned radars remain the backbone of national weather networks, but they face limitations in capturing fast-

changing severe storms, localized heavy rainfall, wind shear, downbursts, and micro-scale low-altitude weather. Phased-array weather radar is therefore best understood as a high-performance sensing layer for severe-weather nowcasting, hydrological rainfall monitoring, aviation weather safety, low-altitude operations, and dense urban meteorological networks. The market is still a growth-stage niche rather than a fully mature replacement cycle, because procurement remains project-based and large-scale national network replacement has not yet started in most countries.

Demand growth will be driven by four major application clusters: severe convective-weather nowcasting, hydrological rainfall and flood monitoring, airport and air-traffic weather safety, and emerging low-altitude micro-meteorological networks. China's procurement momentum is supported by local meteorological modernization, water-management needs, airport safety requirements, and the rapid development of low-altitude economic applications. In the United States and Japan, growth is more likely to be linked to next-generation radar-network research, technology validation, and selected operational deployments before any large replacement cycle begins. As a result, the industry is likely to grow through phased deployment in high-value regions and mission-critical scenarios rather than through an immediate global replacement of conventional radar networks.

From a technology and competition perspective, the market will evolve along two parallel product routes. Large S- and C-band systems will target national weather services, aviation meteorology, and regional severe-weather monitoring, where range, reliability, vertical structure observation, and operational integration are critical. Smaller X- and Ku-band systems will support dense networks for cities, watersheds, airports, low-altitude corridors, and localized nowcasting. Competitive advantage will not be determined solely by antenna hardware or transmit-receive modules; it will increasingly depend on radar-control software, polarimetric rainfall algorithms, clutter suppression, multi-radar mosaicking, nowcasting products, system integration, and lifecycle service capabilities. Over the long term, leading suppliers are expected to move from standalone radar delivery toward integrated 'equipment + software platform + networked sensing + data service' models.

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

millions of the world Phased-Array Weather Radar Equipment industry.

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

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

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

Segmentation by Type:

Fixed Phased-Array Weather Radar

Mobile Phased-Array Weather Radar

Segmentation by Frequency Band:

S-band

C-band

X-band

Ku-band and Other Bands

Segmentation by Polarization Capability:

Single-Polarization Radar

Dual-Polarization Radar

Full-Polarimetric / Multi-Parameter Radar

Segmentation by Scanning Architecture:

One-Dimensional Electronic Scanning

Two-Dimensional Electronic Scanning

Segmentation by Application:

Aviation Weather Monitoring

Low-Altitude Meteorological Monitoring

Scientific Research and Demonstration

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

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 analysing the company's coverage, product portfolio, its market penetration.

China Electronics Technology Group Corporation

Toshiba Corporation

RTX Corporation

Guangdong Naruida Radar Technology Co., Ltd.

Zhejiang Whole Sense Radar Co., Ltd.

China Aerospace Science and Technology Corporation

Japan Radio Co., Ltd.

EWR Radar Systems, Inc.

Agile Radar

Key Questions Addressed in this Report

What is the 10-year outlook for the global Phased-Array Weather Radar Equipment market?

What factors are driving Phased-Array Weather Radar Equipment market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Phased-Array Weather Radar Equipment market opportunities vary by end market size?

How does Phased-Array Weather Radar Equipment break out by Type, by Application?

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