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Global Low-altitude Flight Weather Decision-support Platform Market Growth (Status and Outlook) 2026-2032

https://marketpublishers.com/r/G213C47E84AFEN.html
Date: July 2026
Pages: 152
Price: US$ 3,660.00 (Single User License)
ID: G213C47E84AFEN

Abstracts

The global Low-altitude Flight Weather Decision-support Platform market size is predicted to grow from US$ 192 million in 2025 to US$ 923 million in 2032; it is expected to grow at a CAGR of 24.4% from 2026 to 2032.

A low-altitude flight weather decision-support platform is a specialized software, data and service system designed for crewed and uncrewed aircraft operations in low-altitude airspace, primarily from ground level to 1,000 meters and, where operationally required, up to 3,000 meters. It combines surface observations, radar, satellite data, aircraft- or drone-borne sensing, numerical weather prediction, nowcasting, AI-based forecast correction, three-dimensional wind-field modeling and digital-twin visualization. The platform supports drone operations, eVTOL and advanced air mobility, general aviation, helicopters, flight service stations, low-altitude traffic management platforms, logistics, inspection, emergency response, agricultural spraying and aerial tourism by providing flight-window assessment, route-specific weather risk evaluation, vertiport and take-off/landing weather support, hazardous-weather alerts, go/no-go recommendations, aviation weather intelligence, API delivery and decision support across pre-flight, in-flight and post-flight workflows.

Based on our research, the low-altitude flight weather decision-support platform market should not be viewed as a simple extension of general weather forecasting. It is becoming a safety-critical data and decision layer within the emerging low-altitude aviation infrastructure. Small drones, eVTOL aircraft, helicopters and light general aviation aircraft are highly sensitive to local wind, gusts, turbulence, low visibility, convective weather, lightning and precipitation. Conventional airport weather systems and public weather forecasts do not fully capture the micro-scale variability along urban

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corridors, vertiports, logistics routes, mountainous terrain, coastal routes and temporary landing sites. Therefore, the core value of the industry lies in integrating fine-scale sensing, nowcasting, three-dimensional weather modeling, route-level risk analytics and actionable go/no-go recommendations into the flight workflow.

Demand growth will be driven by China?s low-altitude economy infrastructure build-out, North American BVLOS and LAANC/UTM ecosystems, European U-space deployments, drone logistics, infrastructure inspection, emergency response, agricultural spraying, aerial tourism and early eVTOL operations. In China, policy and local platform construction are creating a strong project pipeline for low-altitude meteorological services. Internationally, growth is more closely linked to commercial drone operations, UTM service recognition, airport and vertiport risk management, and AAM pilot programs. The market is still early, with revenue models based on custom projects, SaaS subscriptions, API usage, data licensing and platform modules. Over time, pricing is likely to evolve toward route-based, flight-volume-based and risk-tier-based service packages.

LPI (LP Information)' newest research report, the ?Low-altitude Flight Weather Decision-support Platform Industry Forecast? looks at past sales and reviews total world Low-altitude Flight Weather Decision-support Platform sales in 2025, providing a comprehensive analysis by region and market sector of projected Low-altitude Flight Weather Decision-support Platform sales for 2026 through 2032. With Low-altitude Flight Weather Decision-support Platform sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Low-altitude Flight Weather Decision-support Platform industry.

This Insight Report provides a comprehensive analysis of the global Low-altitude Flight Weather Decision-support Platform 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 Low-altitude Flight Weather Decision-support Platform portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Low-altitude Flight Weather Decision-support Platform market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Low-altitude Flight Weather Decision-support Platform 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

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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 Low-altitude Flight Weather Decision-support Platform.

This report presents a comprehensive overview, market shares, and growth opportunities of Low-altitude Flight Weather Decision-support Platform market by product type, application, key players and key regions and countries.

Segmentation by Type:

Low-altitude Weather Decision Platform

Aviation Weather Data API

Other

Segmentation by End User:

Drone Operators

UTM / U-space Platforms

Government & Emergency Agencies

Other

Segmentation by Core Function:

Weather Monitoring

Flight Suitability Assessment

Other

Segmentation by Weather Hazard / Parameter:

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Visibility & Ceiling

Convective Weather & Lightning

Precipitation & Icing

Other

Segmentation by Application:

Drone Logistics

Infrastructure Inspection

Agricultural & Forestry Operations

Emergency Response

Urban Air Mobility / eVTOL

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

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

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Thales Group

Garmin Ltd.

Indra Group

The Weather Company

DTN, LLC

Jeppesen ForeFlight

Vaisala Oyj

Frequentis AG

GEOVIS Co., Ltd.

Tomorrow.io

Meteomatics AG

Climavision

Spire Global, Inc.

Baron Weather, Inc.

UBIMET GmbH

TruWeather Solutions

ANRA Technologies

Airspace Link

meteoblue AG

AVTECH Sweden AB

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SkyDemon

Moji Weather Business Services

Shenzhen Low-altitude Industry Development Service Co., Ltd.

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