

UAV Software - Market and Technology Forecast to 2029

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Abstracts

UAVs today have a plethora of uses in agriculture, energy, logistics, defense, homeland security, construction, surveillance, real estate, and Media creation. UAV systems technology's utilisation is only projected to grow as a result of its diverse variety of applications. UAVs are comprised of two components, that is, hardware and software. Uninterrupted operation is due primarily to installed software that safely guides the UAV on its path and provides information on where to go and when to react.

Cloud-based software is now accessible, allowing UAVs to broaden their range of uses. Users may control and manage drone operations with a single click using UAVs featuring cloud-based software. Pre-planned, repeated missions are despatched on demand or via the flight scheduling system. To extract insights and improve decision-making processes, users can engage in real-time and process data. Stockpile volumetric measurements, recognising and counting individuals or objects, and security applications such as detecting breaches and movement are a few examples of UAV software applications.

The Global UAV Software Market acquired a market value of US\$3.48 bn in the year 2021. The market is anticipated to grow with a CAGR of 5% between the forecast period of 2022-2030. In 2021, North America gained a market value of US\$1.05 bn, and its the largest regional segment within the Global UAV Software Market. North America is expected to continue to be the biggest market with a value of US\$1.73 bn in 2029. On studying the regional competitive mapping, APAC is expected to be the fastest-growing segment with a CAGR of 6.3% over the forecast period. This is owing to the presence of countries like India, China, Japan, South Korea, and others in the APAC region. The increased investment in the military modernization programs in the defense sector and rising use of UAVs for commercial, civil and other applications is another factor that is

expected to spur the economic growth for APAC region.

Market analysis for the architecture segmentation conveys that Open-Source architecture account for roughly 66% of the market value generated by the Global UAV Software Market. It is also the fastest-growing segment with a CAGR of 6.6% between the forecast period 2022-2030. The interface market for UAV Software is another supply segment within this sector. Android, and Windows are expected to be the fastest-growing segment within this market with a CAGR of 5.99% respectively. The growth in the increased use of UAVs for various applications, including commercial applications is anticipated to drive the growth dynamics.

This report is aimed at:

Key market trends and their impacts on the changing market dynamics have been discussed.

The technologies within this market have been studied based on the various applications.

A comprehensive study based on the drivers, restraints, and challenges of this market has been covered.

The impact of growing technological advancement on the market as well as its demand has been studied.

The high growth markets have been studied briefly and the trends across this vertical have also been studied.

The new opportunities provided by this market have been listed.

The industrial shortcomings and the performance of the key players for this market have been analyzed.

Segmentation

This report has been segmented by Region, Architecture (Hardware), Drone, and Interface.

Region

North America

Europe

APAC

Middle East

RoW

Architecture

Open-Source

Customized

Drone

Fixed Wing

Rotary Wing

Hardware - Open-Source (Fixed Wing)

Desktop Based

Mobile Application

Tablet

Hardware – Open-Source (Rotary Wing)

Desktop Based

Mobile Application

Tablet

Hardware – Customized (Fixed Wing)

Desktop Based

Mobile Application

Tablet

Hardware - Customized (Rotary Wing)

Desktop Based

Mobile Application

Tablet

Interface

Android

Windows

IOS

Reasons to buy

Determine prospective investment areas based on a detailed trend analysis of the global UAV Software industry over the next eight years

Gain in-depth understanding about the underlying factors driving demand for

different systems segments in the top spending countries across the world and identify the opportunities offered by each of them

Strengthen your understanding of the market in terms of demand drivers, industry trends, and the latest technological developments, among others

Identify the major channels that are driving the UAV Software business, providing a clear picture about future opportunities that can be tapped, resulting in revenue expansion

Make correct business decisions based on thorough analysis of the total competitive landscape of the sector with detailed profiles of the top systems providers around the world which include information about their products, alliances, recent contract wins and financial analysis wherever available

Related studies:

Global Urban Air Mobility (UAM) - Market and Technology Forecast to 2028

Global Military UAVs - Market and Technology Forecast to 2029

Global Package Drones - Market and Technology Forecast to 2029

Global Counter-UAV (C-UAV) Systems - Market and Technology Forecast to 2028

Global Unmanned Aerial Vehicles (UAV) for Border Security Market and Technologies Forecast to 2025

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