

# **Global Drone Flight Controller System Market Size Study, by Application (Fixed-Wing Drone, Rotary Wing Drone), by End-Use (Military Aviation, Commercial Aviation, Others), by Range of Operation (Short Range, Mid Range, Long Range), by Sales Channel (Online, Offline) and Regional Forecasts 2022-2032**

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## **Abstracts**

Global Drone Flight Controller System Market is valued at approximately USD 7.70 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 8% over the forecast period 2024-2032. A drone flight controller is an essential component in an unmanned aerial vehicle (UAV), acting as its central processing unit. This critical system manages and regulates various aspects of a drone's flight, ensuring stability and control. Equipped with sensors and designed to integrate various peripherals like ESC, GPS, LED, servos, radio receivers, FPV cameras, and VTX, drone flight controllers enable drones to stabilize, hover, and perform autonomous flights. As such, they are indispensable for constructing any UAV, facilitating its precise operation and control.

The market for drone flight controller systems is experiencing substantial growth due to the increasing utilization of drones across multiple industries, supportive government policies, and advancements in flight control technologies. Despite the regulatory challenges and rising concerns over privacy and security, the market presents significant opportunities for manufacturers, especially with advancements in electric propulsion systems and the growing demand for autonomous drones. Various industries including energy, real estate, healthcare, construction, and agriculture have increasingly adopted drones for tasks such as crop management, mapping, surveying, infrastructure monitoring, and logistics. The use of drones as precision tools in agriculture and other

sectors is growing, driven by their ability to enhance productivity and streamline operations. For example, in February 2023, the UK Civil Aviation Authority granted XAG Agricultural Drones the first operating license for agricultural spraying, marking a significant development in agricultural practices in the UK.

The key regions considered in the study include Asia Pacific, North America, Europe, Latin America, and the Middle East and Africa. North America is the dominating region in the Drone Flight Controller System Market. This dominance can be attributed to several key drivers: a high concentration of leading drone manufacturers, substantial investments in drone technology by both government and private sectors, and a strong regulatory framework supporting commercial drone operations. Additionally, the increasing adoption of drones across various industries such as agriculture, logistics, and defense has significantly boosted market growth in this region. Asia-Pacific region is the fastest-growing market for drone flight controller systems. The rapid growth is driven by factors such as increasing investments in drone technology, favorable government policies, and the rising use of drones for commercial applications, particularly in countries like China and India. Furthermore, the region's large and diverse geographical landscape presents significant opportunities for drone deployment in areas like disaster management, agriculture, and infrastructure development. The presence of a growing number of drone startups and technological advancements in drone systems also contribute to the accelerated market expansion in the Asia-Pacific region.

Major market players included in this report are:

BAE Systems

JIYI Robot (Shanghai) Co., Ltd.

Collins Aerospace

Moog Inc.

Safran

DJI

3DR, Inc.

Sky-Drones Technologies LTD

Fusion Engineering

Honeywell International Inc.

AIBOT

Supernal

Pipistrel

Skydio

Secureye

The detailed segments and sub-segment of the market are explained below:

By Application:

Fixed-Wing Drone

Rotary Wing Drone

By End-Use:

Military Aviation

Commercial Aviation

Others

By Range of Operation:

Short Range

Mid Range

Long Range

By Sales Channel:

Online

Offline

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

France

Italy

Spain

Rest of Europe

Asia Pacific

China

Japan

India  
Australia  
South Korea  
Rest of Asia Pacific

Latin America  
Brazil  
Mexico  
Rest of Latin America

Middle East  
Saudi Arabia  
South Africa  
Rest of Middle East and Africa

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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