

Global Aviation Mission Computers Market Size study & Forecast, by Component (Hardware, Software), by Control (Flight Control, Engine Control, Flight Management Computers, Mission Computers, Utility Control), by Fit (Retro Fit, Line-Fit), by End-User (Military, Commercial) and Regional Analysis, 2023-2030

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Abstracts

Global Aviation Mission Computers Market is valued at approximately USD XXX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XXX% over the forecast period 2023-2030. Aviation Mission Computers (AMCs) are specialized computer systems used in aircraft for mission management, data processing, and avionics control. These computers play a critical role in modern aircraft by providing the necessary computing power and functionality to support various mission requirements. AMCs are typically ruggedized to withstand harsh environmental conditions, including extreme temperatures, vibrations, and electromagnetic interference. They are designed to operate reliably in aerospace and defense applications, where the safety and effectiveness of the mission are paramount. The key factors driving the market growth are rising adoption of unmanned aerial vehicles (UAVs), growing focus on situational awareness and safety, and rising military spending that are anticipated to support the market growth during forecast period.

Moreover, rising military spending supports the growth of the aviation mission computers market by driving aircraft procurement, upgrades and modernization efforts, funding R&D initiatives, and emphasizing situational awareness and information dominance. For instance, according to the World Bank, in 2018, the military expenditure accounted for 2.1% of GDP, and the percentage increased and reach 2.4% of GDP in

2020. Additionally, growing technological advancements are anticipated to create lucrative opportunities for the market during forecast period. However, the high cost of Aviation Mission Computers stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Aviation Mission Computers Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the presence of key market players, rising military spending on research and development and growing technological advancement. Asia Pacific is expected to grow significantly during the forecast period, owing to factors such as rising military missions, growing military spending, technological advancement, military modernization programs, and growing focus on situational awareness and safety.

Major market players included in this report are:

Curtiss-Wright Defense Solutions

BAE Systems

Rockwell Collins

Honeywell International Inc.

Thales Group

Saab AB

GE Aviation

Cobham PLC.

Esterline Technologies

United Technologies

Recent Developments in the Market:

In June 2023, Mercury Systems, Inc., a technology company that provides

computing capacity for aerospace and defence operations, launched ROCK 4, the first safety-certified, small-form-factor, ruggedized mission computer with the most recent 11th generation Intel® Core™ i7 processors.

Global Aviation Mission Computers Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Component, Control, Fit, End-User, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and Component offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Component:

Global Aviation Mission Computers Market Size study & Forecast, by Component (Hardware, Software), by Control...

Hardware

Software

By Control:

Flight Control

Engine Control

Flight Management Computers

Mission Computers

Utility Control

By Fit:

Retro Fit

Line-Fit

By End-User:

Military

Commercial

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

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Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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