

Global Unmanned Traffic Management (UTM) Market Size study, by Solution (Communication Infrastructure, Navigation Infrastructure, Surveillance Infrastructure, Others), by End-User (Agriculture & Forestry, Logistics & Transportation, Surveillance & Monitoring, Others), by Component (Hardware, Software, Services), by Type (Persistent, Non-Persistent) and Regional Forecasts 2022-2032

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Abstracts

The Global Unmanned Traffic Management (UTM) Market is valued at approximately USD 1.32 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 19.91% over the forecast period 2024-2032. Unmanned Traffic Management (UTM) refers to a system designed to manage and coordinate the operation of unmanned aerial vehicles (UAVs) or drones within airspace. UTM systems facilitate the safe, efficient, and orderly integration of drones into both controlled and uncontrolled airspaces by providing a framework for real-time monitoring, communication, and conflict resolution. One of the pivotal drivers for this market's expansion is the increasing investment in artificial intelligence (AI) and robotic process automation (RPA), which enhance real-time data analysis, decision-making, and automation of various UTM processes. These advancements contribute significantly to the safety and efficiency of drone operations by automating tasks such as airspace authorization, collision avoidance, and route optimization.

The UTM market is also experiencing a surge due to the emergence of collaborative ecosystems that involve regulators, drone operators, airspace management authorities, and technology providers. These ecosystems are essential for establishing standardized protocols, data sharing mechanisms, and cooperative frameworks to

ensure seamless drone integration into existing airspace. This collaboration enhances situational awareness and fosters trust among stakeholders, thereby driving the overall safety and efficiency of UTM operations. Moreover, regulatory advancements and standardization efforts are vital for addressing the challenges associated with drone integration, ensuring the growth of the drone industry while maintaining safety and security in the airspace. Additionally, the market is propelled by significant investments from various governments and private entities. These investments underscore the commitment to advancing UTM technologies and expanding their applications in diverse sectors such as agriculture, logistics, and surveillance.

The key regions considered for the global UTM market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. In 2023, North America is expected to dominate the market due to early adoption and substantial investments in UTM infrastructure. The region benefits from a robust ecosystem of technology providers, drone operators, and government support. However, challenges like airspace congestion and regulatory compliance pose hurdles to the market's full potential. Europe follows as the second-largest market, driven by favorable government initiatives and progressive regulations. The Asia-Pacific region is projected to grow at the fastest CAGR, fuelled by government initiatives, supportive regulations, and investments in UAS technology.

Major market players included in this report are:

Leonardo S.p.A.

Frequentis

Altitude Angel

L3Harris Technologies Inc.

Skyward

Lockheed Martin Corporation

AirMap Inc.

Nova Systems

Thales Group

Unifly

Airbus SE

Boeing

DJI

FLIR Systems

Intel Corporation

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

By Solution:

Communication Infrastructure
Navigation Infrastructure
Surveillance Infrastructure
Others

By End-User:

Agriculture & Forestry
Logistics & Transportation
Surveillance & Monitoring
Others

By Component:

Hardware
Software
Services

By Type:

Persistent
Non-Persistent

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
Mexico
Rest of Latin America

Middle East & Africa
Saudi Arabia
South Africa
RoMEA

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.

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