

UAS Traffic Management (UTM) System Market By Component (Solution, Software, Service), By Type (Non-Persistent, Persistent) By Application (Aviation, Homeland Security, Agriculture, Logistics and Transportation, Others) By End-user (Commercial, Government Law) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

UAS Traffic Management (UTM) System Market

The UAS traffic management (UTM) system market was valued at \$110.0 million in 2023 and is projected to reach \$1978.4 million by 2033, growing at a CAGR of 33.8% from 2024 to 2033.

Unmanned aircraft systems (UAS) traffic management (UTM) system involves the management of drones flying in the airspace for their safe operation and prevention of collisions. UTM systems have become a critical aspect of airspace management due to rise in the utility of drones in diverse sectors to accomplish activities such as surveying, inspection, and search & rescue. These systems are mainly involved in the management of UAVs at low altitudes, generally below 400 feet. The key benefits of utilizing UTM systems include risk mitigation, efficient airspace usage, and scalability.

Increase in the commercial applications of UTM systems, including surveying, agricultural monitoring, mapping, and infrastructure surveillance is a key driver of the market. In addition, ensuring public safety, particularly in sensitive areas such as airports or crowded markets, fuels the need for effective airspace management and propels the development of the market. A prominent trend acquiring traction in the UAS

traffic management (UTM) system market is the enhancement of connectivity in the drone infrastructure to improve safety-related decisions. Stakeholders are employing technologies such as 5G networks, geo-distributed servers, and edge computing to manage extensive drone fleets through real-time trajectory coordination and reactive maneuvering.

However, the high usage of communication networks and cloud-based infrastructure in UTM systems enhances the vulnerability of drones to cyberattacks, thereby restraining the development of the market. Moreover, the fragmented regulatory aspect of UTM systems owing to differences in standards & mandates across countries and regions hampers the market growth significantly. On the contrary, advances in drone technologies have enabled their flight at high altitudes, presenting lucrative opportunities for the expansion of the UAS traffic management (UTM) system market. For instance, NASA has promoted commercial drone deliveries beyond the visual line of sight in Dallas, Texas since August 2024. Furthermore, to facilitate the efficient deployment of drones at high altitudes for different applications globally, NASA is advancing its UTM system beyond the visual line of sight, thereby highlighting the bright future of the market.

Segment Review

The UAS traffic management (UTM) system market is segmented into component, type, application, end user, and region. On the basis of component, the market is divided into solution, software, and service. Depending on type, it is bifurcated into non-persistent and persistent. As per application, it is classified into aviation, homeland security, agriculture, logistics & transportation, and others. According to end user, it is categorized into commercial and government law. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of component, the software segment is anticipated to dominate the market during the forecast period.

Depending on type, the persistent segment is projected to be the highest shareholder by 2033.

As per application, the logistics & transportation segment is expected to account for a high share of the market throughout the forecast period.

Region wise, it is analyzed across North America is predicted to be the highest revenue generator by 2033.

Competition Analysis

The major players in the global UAS traffic management (UTM) system market include Airbus SE, Altitude Angel Limited, Frequentis, L3Harris Technologies Inc., Leonardo S.p.A., Lockheed Martin Corporation, Nova Systems, PrecisionHawk, Raytheon Technologies Corporation, Thales Group, and Unifly NV. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Market share analysis of players by products/segments

Regulatory Guidelines

Additional company profiles with specific to client's interest

Key Market Segments

By Component

Solution

Software

Service

By Type

Non-Persistent

Persistent

By Application

Aviation

Homeland Security

Agriculture

Logistics and Transportation

Others

By End-user

Commercial

Government Law

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

Airbus SE

Altitude Angel Limited

Frequentis

L3Harris Technologies Inc.

Leonardo S.p.A.

Lockheed Martin Corporation

nova systems

PrecisionHawk

Raytheon Technologies Corporation

Thales Group

Unifly NV

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