

Asia Pacific Unmanned Traffic Management Market Forecast to 2030 - COVID-19 Impact and Regional Analysis - by Type (Persistent UTM and Non-Persistent UTM), Component (Hardware and Software), Application (Communications, Navigation, Surveillance & Monitoring, and Others), and End Use (Agriculture & Forestry, Logistics & Transportation, Surveillance, and Others)

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AVAILABLE LICENSES:

- Single User Price \$3000.00
- Site Price \$4000.00
- Enterprise Price \$5000.00

Report description:

The Asia Pacific unmanned traffic management market is expected to grow from US\$ 126.23 million in 2022 to US\$ 510.69 million by 2030. It is estimated to grow at a CAGR of 19.1% from 2022 to 2030.

Integration of AI and ML will be Driving the Asia Pacific Unmanned Traffic Management Market Coming Year

UAVs and UASs are gaining attention owing to their capability to revolutionize different businesses and industry verticals. With a rising number of UAVs and UASs, artificial intelligence (AI) and machine learning (ML)-based UTM is also gaining prominence. Presently, several enterprises have been utilizing AI and ML for enhancing their air traffic management (ATM) solutions, and the same can be expected to be replicated for UTM solutions. The present UTM framework mostly supports remote identification, operation planning, situational awareness, and failure detection and recovery. AI and ML can aid in all such categories by optimizing a drone's functioning. In operation planning, AI and ML algorithms can be utilized for efficient and safe operations in hostile environments through better trajectory prediction, classification and optimization. Reinforcement Learning (RL) and Deep Neural Network (DNN) can be utilized for target tracking, wildfire monitoring or classifying and recovering a malfunctioning vehicle. Convolutional Neural Network (CNN) Support Vector Machine (SVM)-based ML methods can be utilized for situational awareness. CNN can easily generate a wind flow map and provide safer trajectories for the vehicle. SVM can be utilized for classifying line of sight (LoS) and non-LoS links of the vessel at different locations and along different flight routes. ML algorithms

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can be utilized for failure detection, assessment, and classification, as well as failure recovery. Such data, combined with AI can easily predict future failure chances and thus aid in minimizing the same. Application of ML through data mining techniques can enable better remote identification and data security. Owing to such advantages, most modern UTM solutions can be expected to integrate AI and ML for safer traffic management.

Asia Pacific Unmanned Traffic Management Market Overview

Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific are the key contributors to the unmanned traffic management market in the Asia Pacific. The rising urbanization and growing congestion in traffic are pushing the ground transportation to maximum limits in the Asia Pacific countries. The growing adoption of urban air mobility has the potential to develop a transportation system that is faster, cleaner, and more interconnected within the Asia Pacific countries. Thus, such factors are leveraging the demand unmanned traffic management system in the Asia Pacific countries. The countries in Asia Pacific region are focusing on urban air mobility, as the drone manufacturers, governments and customers in the region as likely to adopt of eVTOL technology. The growing application of drones in various applications such as transportation, weather monitoring, surveillance, search and rescue, firefighting, traffic monitoring are some of the crucial application which is escalating the demand for unmanned traffic management system. In India, the Central Government has implemented a number of reform measures with the goal of making India a global hub for drones by 2030, under the Atmanirbhar Bharat Abhiyan program. On August 25, 2021, it announced the liberalized Drone Rules, 2021, and on September 24, 2021, it published the drone airspace map. Thus, such growth in the production and adoption of drones for various applications in India is increasing the aerial traffic which is anticipated to bolster the demand for unmanned traffic management system. Also, China, one of the leading countries in Asia Pacific region, which is primarily focused on creating investment prospects for the development of urban infrastructure households and businesses. Moreover, the growth in the e-commerce industry further provides substantial opportunities to the urban air mobility market in China. For instance, April 2021, SF Express, a Chinese logistics group uses a new high-capacity cargo-carrying unmanned aerial vehicle that is being developed by its German subsidiary, Amazilia Aerospace, in partnership with Slovenian electric aircraft specialist Pipistrel. Thus, such growing adoption of unmanned aerial vehicles in transportation sector is expected to augment the demand for unmanned traffic management system which helps drive the market growth over the forecast period. The presence of key players of drone manufacturers in Asia Pacific region along with strategic alliances from these players is increasing the competitive edge for Asia Pacific unmanned traffic management market .

Asia Pacific Unmanned Traffic Management Market Revenue and Forecast to 2030 (US\$ Million)

Asia Pacific Unmanned Traffic Management Market Segmentation

The Asia Pacific unmanned traffic management market is segmented into type, component, application, end use, and country.

Based on type, the Asia Pacific unmanned traffic management market is bifurcated into persistent UTM and non-persistent UTM. In 2022, the persistent UTM segment registered a larger share in the Asia Pacific unmanned traffic management market.

Based on component, the Asia Pacific unmanned traffic management market is bifurcated into hardware and software. In 2022, the hardware segment registered a larger share in the Asia Pacific unmanned traffic management market.

Based on application, the Asia Pacific unmanned traffic management market is segmented into communications, navigation, surveillance & monitoring, and others. In 2022, the communications segment registered a largest share in the Asia Pacific unmanned traffic management market.

Based on end user, the Asia Pacific unmanned traffic management market is segmented into agriculture & forestry, logistics & transportation, surveillance, and others. In 2022, the surveillance segment registered a largest share in the Asia Pacific unmanned traffic management market.

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Based on country, the Asia Pacific unmanned traffic management market is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. In 2022, China segment registered a largest share in the Asia Pacific unmanned traffic management market.

Lockheed Martin Corp; Leonardo SpA; Collins Aerospace; Altitude Angel Ltd; Frequentis AG; Unify NV; Airbus SE; and Thales SA are the leading companies operating in the Asia Pacific unmanned traffic management market.

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