

High Altitude Pseudo Satellite Market by Platform (Airships, Balloons and UAVs), Application (Communication, Earth Observation & Remote Sensing, Others (ISR, Monitoring, Search and Rescue, Navigation)), End User and Region - Forecast to 2028

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Abstracts

The high altitude pseudo satellite market is valued at USD 85 million in 2023 and is projected to reach USD 189 million by 2028, at a CAGR of 17.2% from 2023 to 2028. The demand for these satellites has witnessed significant demand as these systems meets a range of needs, including communication and connectivity to provide internet and communication services, Earth observation, including weather patterns, natural disasters, and environmental changes. These platforms provide cost-effective and flexible solutions for various industries and applications.

“Airships platform to be fastest growing segment for the High altitude pseudo satellite market during the forecast period.”

Airships, categorized as High Altitude Pseudo Satellites within the Lighter Than Air (LTA) category, possess technology enabling them to manage their lateral trajectory. They have the capability to operate above or below the 60,000 ft flying altitude (FL600) to harness prevailing winds and maintain pressure equilibrium. Thales Alenia's Stratobus, based in France, provides an extended range of surveillance capabilities and the capacity to remain suspended over specific locations for extended periods, supporting intelligence, surveillance, and reconnaissance (ISR) operations, thereby enhancing the defense capabilities of the French military..

“Other (ISR, Monitoring, Search and Rescue, Navigation) Application Segment To Grow At Highest CAGR of 22.1% during the forecast period.”

Other segment of High-Altitude Pseudo Satellites (HAPS) offer a diverse range of applications that extend beyond merely delivering internet connectivity. They are increasingly finding utility in various sectors, including Intelligence, Surveillance, and Reconnaissance (ISR), monitoring, search and rescue, as well as navigation.

For example, the PHASA 35 HAPS developed by Prismatic Ltd (UK) serves as a consistent and stable platform suitable for tasks such as monitoring, maritime surveillance, agricultural monitoring, communication, and security applications. The ApusDuo HAPS, created by UAVOS Inc. (US), is well-suited for maritime surveillance, border patrol missions, communication services, and forest fire detection and monitoring..

“Commercial end user segment to have higher growth for the High altitude pseudo satellite market during the forecast period.”

Based on end user, the market segmented into commercial, and government & defense. Commercial HAPS have a wide range of applications. They can be utilized for agricultural monitoring, which involves overseeing crops, soil conditions, and weather patterns across extensive farmlands. This collected data aids farmers in making well-informed decisions, allowing them to optimize their agricultural practices and consequently increase crop yields and resource efficiency. Additionally, HAPS contribute to the enhancement of GPS and navigation systems by improving the precision and dependability of signals. They are also valuable in the creation of high-resolution 3D maps for urban planning and infrastructure development.

“North America is anticipated to dominate the High Altitude Pseudo Satellite market in 2023”

The regional supremacy can be attributed to the presence of major companies, mainly situated in the United States. These industry leaders consistently channel investments into research and development to innovate and enhance technologies used in the High Altitude Pseudo Satellite market. Such advancements have resulted in cost reduction for satellite launches, making High Altitude Pseudo Satellites more economically viable. Consequently, the increased affordability and reliability of High Altitude Pseudo Satellites are pivotal factors propelling the growth of this market within the North American region.

Breakdown of primaries

High Altitude Pseudo Satellite Market by Platform (Airships, Balloons and UAVs), Application (Communication, E...

The research incorporates input from a wide spectrum of industry professionals, encompassing component suppliers, Tier1 firms, and OEMs. The composition of the primary sources is outlined as follows:

By Company Type: Tier 1–35%; Tier 2–45%; and Tier 3–20%

By Designation: C Level–35%; Directors–25%; and Others–40%

By Region: North America-45%; Europe–15%; Asia Pacific–25%; and Rest of the World –15%

AeroVironment, Inc. (US), Prismatic Ltd. (UK), Airbus (France), Thales Group (France), and SoftBank Group Corp. (Japan) are some of the leading players operating in the High altitude pseudo satellite market.

Research Coverage

The study covers the high altitude pseudo satellite market across various segments and subsegments. It aims at estimating the size and growth potential of this market across different segments based on platform, application, end user and region. This study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to their product and business offerings, recent developments undertaken by them, and key market strategies adopted by them.

Key benefits of buying this report: This report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall high altitude pseudo satellite market and its subsegments. The report covers the entire ecosystem of the high altitude pseudo satellite industry. It will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report will also help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers and several factors, such as Russia-Ukraine Conflict, defense expenditure, and others that could contribute to an increase in high

altitude pseudo satellite market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the high altitude pseudo satellite market

Market Development: Comprehensive information about lucrative markets – the report analyses the high altitude pseudo satellite market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in high altitude pseudo satellite market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like AeroVironment, Inc. (US), Prismatic Ltd. (UK), Airbus (France), Thales Group (France), SoftBank Group Corp. (Japan) in the High altitude pseudo satellite market.

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