+357 96 030922
info@marketpublishers.com

North America Inertial Sensors for Land Defense Market Forecast to 2030 - Regional Analysis - by Technology (FOG, MEMS, and Others) and Application (Stabilization Missile Systems, Stabilization Turret-Cannon Systems, Land Navigation Including Land Survey, Missile GGM-SSM, Stabilization Active Protection System, Stabilization of Optronics System, and Others)

https://marketpublishers.com/r/NEFC4CA848ABEN.html
Date: July 2024
Pages: 84
Price: US$ 3,550.00 (Single User License)
ID: NEFC4CA848ABEN

Abstracts

The North America inertial sensors for land defense system market was valued at US$ 326.16 million in 2022 and is expected to reach US$ 508.23 million by 2030; it is estimated to record a CAGR of 5.7% from 2022 to 2030.

Integration of Inertial Sensors with Other Sensor Technologies Fuels North America Inertial Sensors for Land Defense System Market

Inertial sensors, such as accelerometers and gyroscopes, play a crucial role in navigation and motion-sensing applications. These sensors are often integrated with other sensor technologies to enhance the accuracy and robustness of navigation systems. For example, by combining inertial sensors with GPS, navigation systems can overcome the limitations of GPS, such as signal loss in urban canyons or indoor environments. Inertial sensors provide continuous position, velocity, and orientation estimates, which can be used to bridge gaps in GPS data and improve the overall accuracy of navigation systems. Inertial sensors can also be integrated with vision systems to enhance motion-sensing capabilities. Vision systems provide visual information about the environment, while inertial sensors provide precise motion

+357 96 030922
info@marketpublishers.com

measurements. By combining the data from both sensors, navigation systems can correctly track the position and movement of objects in real time.

Also, advancements in accelerometers for inertial sensors contribute to a rise in the integration of these sensors with other sensor technologies. For instance, in December 2023, Inertial Labs introduced a revolutionary advancement in navigation-grade accelerometers called the high-precision three-axis accelerometers (TAA). These compact devices offer unmatched accuracy in measuring linear accelerations. The development of the TAA series, which spanned over two decades, showcases Inertial Labs' unwavering commitment to delivering innovative solutions in the field of navigation technology. Furthermore, the integration of inertial sensors with other technologies, such as GPS and vision systems, enhances navigation and motion-sensing capabilities, resulting in more robust and accurate measurements. Thus, the integration of inertial sensors with other sensor technologies is expected to fuel the inertial sensors for land defense system market growth in the coming years.

North America Inertial Sensors for Land Defense System Market Overview

North America comprises countries such as the US, Canada, and Mexico. The inertial sensors for land defense systems market is experiencing significant growth in North America. Inertial sensors play a crucial role in various land military applications, providing vital data for navigation, targeting, and platform stabilization. These sensors, typically combined into inertial measurement units (IMUs), measure the vehicle's movement, orientation, and acceleration without relying on external signals like GPS, making them particularly valuable in situations where GPS is unavailable or unreliable due to jamming or environmental factors. The militaries in North America are among the most powerful and well-equipped in the world. The US, Canada, and Mexico all have highly trained and professional forces capable of a wide range of operations, from peacekeeping to full-scale war. The United States military is by far the largest and most powerful in North America. It has approximately 48% active and 52% reserve personnel. The US Army is the largest land force in the world, with over 500,000 active soldiers. Moreover, the US controls land sales to foreigners near eight military bases. Foreign citizens and companies would need U.S. government approval to buy property within 160 kilometers of eight military bases under a projected rule change that follows a Chinese firm's attempt to build a plant near a military base in the U.S. state of North Dakota.

The increase in investments in the army is increasing the land defense systems. For instance, in December 2023, Canada announced a US$ 1.68 billion investment in a

+357 96 030922
info@marketpublishers.com

technology network for the Canadian Army. The contracts will provide support for the land control, command, communications, computers, intelligence, surveillance, and reconnaissance (LC4ISR) system. In addition, in December 2023, Mexico announced that it was investing US$ 30 billion in a military-run train line. The train line is built with limited transparency and is run by the army. All the above factors propel the market growth of inertial sensors for land defense systems in North America.

North America Inertial Sensors for Land Defense System Market Revenue and Forecast to 2030 (US$ Million)

North America Inertial Sensors for Land Defense System Market Segmentation

The North America inertial sensors for land defense system market is categorized into technology, application, and country.

Based on technology, the North America inertial sensors for land defense system market is categorized into FOG, MEMS, and others. The FOG segment held the largest market share in 2022.

In terms of application, the North America inertial sensors for land defense system market is segmented into stabilization missile systems, stabilization turret/ cannon systems, land navigation including land survey, missile GGM/ SSM, stabilization active protection systems, stabilization of optronic systems, and others. The stabilization missile systems segment held the largest market share in 2022.

By country, the North America inertial sensors for land defense system market is segmented into the US, Canada, and Mexico. The US dominated the North America Inertial Sensors for Land Defense System Market share in 2022.

Collins Aerospace, Advanced Navigation Pty Ltd, Honeywell International Inc, Northrop Grumman Corp, SBG Systems SAS, Thales SA, Emcore Corp, and Exail SAS are some of the leading companies operating in the North America inertial sensors for land defense system market.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

9. NORTH AMERICA INERTIAL SENSOR FOR LAND DEFENSE SYSTEMS MARKET - COUNTRY ANALYSIS

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: North America Inertial Sensors for Land Defense Market Forecast to 2030 - Regional Analysis - by Technology (FOG, MEMS, and Others) and Application (Stabilization Missile Systems, Stabilization Turret-Cannon Systems, Land Navigation Including Land Survey, Missile GGM-SSM, Stabilization Active Protection System, Stabilization of Optronics System, and Others)

Product link: https://marketpublishers.com/r/NEFC4CA848ABEN.html

Price: US$ 3,550.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/NEFC4CA848ABEN.html