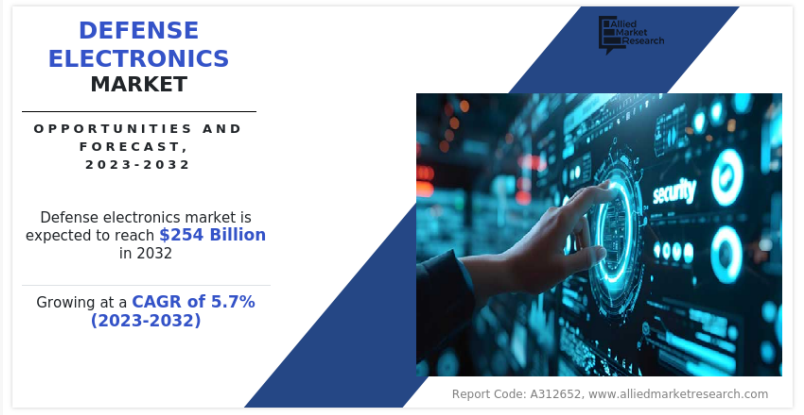
Defense Electronics Market Set to Reach $254 Billion by 2032, Reflecting a 5.7% CAGR Growth from 2023 To 2032

Defense Electronics Market Size, Share, Competitive Landscape and Trend Analysis Report : Global Opportunity Analysis and Industry Forecast, 2023-2032



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PORTLAND, PROVINCE: OREGAON, UNITED STATES, March 29, 2024 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, “The Market Size Of Defense Electronics Industry ,by Vertical (Communication and Display, Navigation, C4ISR, Electronic Warfare, Radar and Optronics) and Platform (Airborne, Marine, Land and Space)Global Opportunity Analysis and Industry Forecast, 2023-2032". The market size of defense electronics was valued at $150.20 billion in 2022, and is estimated to garner $254 billion by 2032, growing at a CAGR of 5.7% from 2023 to 2032.

Technological developments, environmental concerns, and changing consumer needs foster transformative trends in the global defense electronics industry. The constant quest for improved effectiveness and performance is one such trend. To maximize fuel efficiency and increase thrust-to-weight ratios, manufacturers are investing in materials such as lightweight composites and sophisticated aerodynamics, which is expected to lead to the creation of turbojet engines that are more potent and efficient.

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The defense electronics market is growing at a rapid pace due to the rapid pace of technical innovation. New and more sophisticated defense electronics systems are developed as a result of developments in disciplines such as□AI, machine learning, and big data analytics. The improved situational awareness, quicker reaction times, and enhanced precision that these systems are intended to deliver are crucial for military and defense applications.

Eco-friendly solutions are developed as a result of the crucial focus on environmental sustainability. Sustainable aviation fuels (SAFs) are among the alternative fuels that turbojet engines are converting to lessen their environmental impact. Concerned about lowering carbon emissions, the aviation sector is also exploring electric and hybrid-electric power systems more, particularly for smaller aircraft. The defense electronics industry. Semiconductors were given special attention under China's Made in China 2025 industrial agenda. China wants to become the world leader in semiconductor manufacturing. The consequences of utilizing a fake chip in consumer and military products can range from strange system behavior to death. An enormous quantity of fake electronics and semiconductor components are sold on the international market each year.

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OEMs and aircraft manufacturers are concentrating on creating fuel-efficient jet engines to lower fuel usage. The emphasis that manufacturers have placed on airplane fuel efficiency is a result of rising fuel prices. One way to improve an aircraft's fuel economy is to reduce its overall weight. To lower the aircraft's overall weight, a number of manufacturers have created lightweight engines. makes use of lightweight materials such as carbon fiber. The defense electronics industry is growing due to composite materials such lightweight, high-strength reinforced polymers.

AI is becoming a more important technology for militaries all around the world when it comes to their long-term□plans. The biggest defense corporations are one of the most important channels for integrating cutting-edge technologies, like AI-enabled technology, into defense systems and platforms. Major defense firms are under pressure to increase their innovation-related activities to stay up with the greater commercial market, as digital titans such as Amazon and Google are leading the way in AI innovation. Typically, autonomous systems, cybersecurity, data analysis and intelligence, training and simulation, predictive maintenance, and communication and networking are the primary areas of interest for AI investment activities in the defense electronics sector.

The evolution of land vehicles has witnessed a significant surge in electronic systems. Earlier vehicle generations heavily depended on mechanical and hydraulic systems for fire control, along with basic optical systems for situational awareness. In contrast, contemporary and upcoming vehicle generations are integrating sophisticated digital optical systems for both gunners and drivers. In addition, there is a growing incorporation of advancements in electronic warfare systems and radar technology, facilitating the integration of active protection systems.

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The market is segmented into vertical, platform, and region. On the basis of vertical, the market

is divided into communication and display, navigation, C4ISR, electronic warfare, radar and optronics. On the basis of platform, the market is classified into airborne, marine, land, and space. Region wise, the defense electronics market trends are analyzed across North America (U.S., Canada, and Mexico), Europe (UK, Germany, France, Russia, Italy, Spain, and rest of Europe), Asia-Pacific (China, India, Japan, Australia, South Korea, and rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa).

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The optronics segment was the highest revenue contributor with $53.2 billion in 2022, and is estimated to reach $96.7 billion by 2032, with a CAGR of 6.49%.
The airborne segment is estimated to reach $121.7 billion by 2032, with a CAGR of 6.29% during the forecast period.
Asia-Pacific was the highest revenue contributor, accounting for $48.0 billion in 2022, and is estimated to reach $90.9 billion by 2032, with a CAGR of 6.91%.

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David Correa
Allied Market Research
+1 5038946022

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