Military Embedded System Market is Anticipated to Increase at a Stable CAGR over the Forecast Period (2021-2031)

Compact, affordable, and robust embedded systems drive military use, boosted by rising defense spending and modern solutions for safety and efficiency.

WILMINGTON, DE, UNITED STATES, March 8, 2025 /EINPresswire.com/ -- According to a new report published by Allied Market Research, The [military embedded system market](#) was valued at $1.5 billion in 2021, and is estimated to reach $3.3 billion by 2031, growing at a CAGR of 7.9% from 2022 to 2031.

Military Embedded System Market

Embedded systems can be managed both independently and as a component of larger systems. Despite their small size, the systems are fully functional computers with specialized functionality. An embedded system's smaller size, along with its affordability and robustness, makes it suitable for a variety of uses in the military and defense industry. Numerous applications, such as electronic warfare, cyber warfare, communication, surveillance, and reconnaissance, make use of embedded systems.

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The systems are used in military computers and in data storage devices. The dependability, safety, and efficiency issues that plague traditional computing systems used by the military are resolved by modern embedded systems and wireless technologies, and this is an important aspect that is anticipated to significantly increase demand for military embedded systems in the years to come. These factors are estimated to drive the military embedded system market size.

Increase in demand for military expenditure around the globe for the advancement of military forces. The defense forces are using the military embedded system to collect and transmit

classified, top secret information as well as for commercial off- the-shelf hardware for rough military uses. Rapidly rising acceptance of electronic warfare systems are some of the reasons driving the military embedded systems market.

The development of compact embedded systems is becoming increasingly challenging. The systems must fit into a variety of mobile platforms utilized for military purposes. Other challenges limiting market growth include complicated embedded device development processes, strong security protocols, and difficult certification criteria for designs. These factors are estimated to hamper the growth of the military embedded system market share.

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A large amount of signal processing capacity is required for embedded systems built for electronic warfare systems. As a result, defense system integrators are implementing high performance embedded computing technologies like as multi-core to alleviate the signal processing bottleneck. Furthermore, system designers employ tens or hundreds of CPU cores linked by high speed and low latency data lines to enable rapid data collecting and processing.

Furthermore, multi-core technology enables designers to adapt to future hardware requirements while adhering to tight financial constraints. The widespread usage of multi-core technology in electronic warfare systems is predicted to increase the global military embedded system industry. These factors are anticipated to boost the military embedded system market growth in the upcoming years.

The military embedded systems market outlook is segmented based on product type, component, platform, application, and region. By product type, it is classified into motherboard & computer-on-module (COM), OPEN VPX, VME Bus, compact-PCI (Board & Serial), and others. By component, it is classified into hardware and software. By platform, it is classified into airborne, land, naval, and space. By application, it is classified into radar, command & control, avionics, electronic warfare, communication & navigation, weapon fire control system, and others. By region, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The key players profiled in the military embedded system market report include Intel Corporation, Mercury Systems, Inc. Curtiss-Wright Corporation, Advantech Co., Ltd., BAE Systems, SMART Embedded Computing, SDK Embedded Systems Ltd., General Dynamics Corporation, Kontron (S&T), and Xilinx Inc.

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The report offers a comprehensive global military embedded system market analysis, trends by thoroughly studying different aspects of the market including major segments, market statistics,

market dynamics, regional market outlook, investment opportunities, and top players working towards the growth of the market. The report also sheds light on the present scenario and upcoming trends & developments that are contributing toward the growth of the market. Moreover, restraints and challenges that hold power to obstruct the market growth are also profiled in the report along with Porter's five forces analysis of the market to elucidate factors such as competitive landscape, bargaining power of buyers and suppliers, threats of new players, and the emergence of substitutes in the market.

Impact of COVID-19 on the Global Military Embedded System Industry

1. In several countries throughout the world, the sudden COVID-19 pandemic outbreak prompted strict lockdown laws, which caused delays in the import and export of military-embedded systems and equipment. Additionally, it had an immediate effect on the production process, clogging the supply chain and lowering global market revenue.

2. The COVID-19 pandemic impacted almost all industries across the globe. The military-embedded system producing companies ceased their operations owing to import-export restrictions, lockdowns imposed across several countries, shortage of labor, and the fear of contracting the novel coronavirus led to sluggish demand in the market.

3. Social distancing norms closed borders, and production constraints, due to the pandemic, across various countries such as China, India, and the U.S. had affected the global market.

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Key Findings of the Study

1. Based on product type, the compact-PCI (Board & Serial) sub-segment emerged as the global leader in 2021, and the motherboard & computer-on-module (COM) sub-segment is anticipated to be the fastest growing sub-segment during the forecast period.

2. Based on components, the software sub-segment emerged as the global leader in 2021 and the hardware sub-segment is anticipated to be the fastest-growing sub-segment during the forecast period.

3. Based on platform, the land sub-segment emerged as the global leader in 2021 and the airborne sub-segment is anticipated to be the fastest growing sub-segment during the forecast period.

4. Based on application, the weapon fire control system sub-segment emerged as the global leader in 2021 and the communication & navigation sub-segment is predicted to show the fastest growth in the upcoming years.

5. Based on region, the North America market registered the highest market share in 2021 and is projected to maintain the position during the forecast period.

6. The study also cover an in-depth analysis of military embedded system market forecast.

About Us:

Allied Market Research (AMR) is a full-service market research and business-consulting wing of Allied Analytics LLP based in Portland, Oregon. Allied Market Research provides global enterprises as well as medium and small businesses with unmatched quality of "Market Research Reports" and "Business Intelligence Solutions." AMR has a targeted view to provide business insights and consulting to assist its clients in making strategic business decisions and achieving sustainable growth in their respective market domains.

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