

Semiconductor in Military and Aerospace Market Size, Share Industry Trends, Expected to Reach \$12.9 Billion by 2031

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Research published a report, titled,

["Semiconductor in Military and](#)

[Aerospace Market](#) by Component

(Sensors, Memory, Opto Electronics,

Logic, Micro, Analog, and Others),

Technology (Surface Mount Technology and Through-Hole Technology), End

Use (Military and Aerospace), and

Application (Communication,

Navigation, Global Positioning System

(GPS) and Surveillance, Imaging, Radar and Earth Observation, Munitions, and Others): Global

Opportunity Analysis and Industry Forecast, 2021–2031". According to the report, the global

semiconductor in the military and aerospace industry is expected to generate \$6.3 billion in 2021

and is anticipated to generate \$12.9 billion in 2031, witnessing a CAGR of 7.6% from 2022 to

2031.

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Factors such as rise in military expenditure, rise in aircraft upgradation and modernization programs, and use of radiation tolerant semiconductor components are expected to drive the market growth. However, scarcity of semiconductors is the factor that hampers the market growth. Furthermore, growth in investments by several governments in space technology, and defense modernization are the factors expected to offer lucrative opportunities for the market growth.

North America is looking forward to strengthen its domestic semiconductor manufacturing industry, therefore, in the U.S., government introduced a \$54.2 billion CHIPS Act, which provides investment and incentive funds to build semiconductor manufacturing facilities in the U.S. Moreover, North America increasingly invests on satellite equipment to enhance defense and

surveillance capabilities of the armed forces, modernization of existing communication in military platforms, critical infrastructure and law enforcement agencies using satellite systems, which in turn demand for enhanced semiconductor products, and are key factors expected to drive the [semiconductor in military and aerospace market size](#) in North America. For instance, in March 2022, Vicor Corp. radiation-fault-tolerant DC-DC converter power modules use in Boeing-manufactured O3b mPOWER satellites. The O3b mPOWER ecosystem is a constellation of satellites in medium earth orbit (MEO) that SES use for delivering global connectivity services to customers across the globe.

Based on components, the memory segment held the highest market share in 2021, accounting for more than one-fourth of the global [semiconductor in the military and aerospace market](#), and is estimated to maintain its leadership status throughout the forecast period. The shift in the trend toward automation and quick adoption of new technologies such as artificial intelligence, and machine learning through the deployment of software-defined and autonomous satellites have notably increased the demand for onboard memory chips. The segment is also projected to manifest the highest CAGR of 9.4% from 2022 to 2031.

Based on technology, the through-hole technology segment accounted for the largest share in 2021, accounting for around three-fifths of the global semiconductor in the military and aerospace market, and is projected to maintain its lead position during the forecast period. Through-hole mount provides stronger mechanical bonds than surface mount technology, making through-hole ideal for semiconductor components that might undergo mechanical stress in the military and aerospace sectors. The segment is also expected to portray the highest CAGR of 7.9% from 2022 to 2031.

Based on end use, the military segment accounted for the largest share in 2021, accounting for around three-fourths of the global semiconductor in the military and aerospace market and is projected to maintain its lead position during the forecast period. In the military sector, semiconductor components are utilized in communication equipment, electronic surveillance & countermeasure, unmanned aerial vehicles, missile systems, and others. Additionally, the segment is also expected to portray the highest CAGR of 7.9% from 2022 to 2031.

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Based on application, the communication, navigation, global positioning system (GPS), and surveillance segment accounted for the largest share in 2021, accounting for around half of the global semiconductor in the military and aerospace market, and is projected to maintain its lead position during the forecast period. Semiconductors in military & aerospace sectors are utilized in several pieces of equipment which is utilized for communication, navigation & surveillance. For instance, radio frequency (RF) systems are used for communication in aircraft, radio, and others. In addition, space-based technologies, such as communications satellites, enable global telecommunications systems by relaying signals with voice, video, and data to and from one or many locations. Additionally, the segment is also expected to portray the highest CAGR of 8.4% from 2022 to 2031.

Semiconductor manufacturers in the U.S. are partnering with defense organizations to manufacture semiconductor solutions for several defense and aerospace applications, which contribute in the growth of the market in the U.S. region. For instance, in February 2021, Global Foundries announced that it has partnered with the U.S. Department of Defense (DOD) to provide semiconductor solutions, manufactured at Global Foundries' most advanced semiconductor manufacturing facility "Fab 8" in Malta, New York. The newly manufactured semiconductor chips will be utilized in Department of Defense' sensitive applications for land, air, sea and space systems.

Key players in the market: -

Analog Devices, Inc.
Infineon Technologies AG
Microchip Technology Inc.
Northrop Grumman Corporation
NXP Semiconductors NV
ON Semiconductor Corporation
Raytheon Technologies Corporation
Teledyne Technologies Inc.
Texas Instruments Incorporated
Advanced Micro Devices Inc. (Xilinx Inc.)

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Defense organizations in numerous countries across the globe are awarding contracts to key players operating in the market for the development of advanced sensors, which boosts the growth of the market. For instance, in May 2020, the U.K. Defense and Security Accelerator (DASA) granted about 13 contracts worth \$2.8 million for the development of enhanced Electro-Optics and Infrared (EOIR) sensors. Moreover, several different types of sensors are used track far away objects in space through thermal imaging sensors, remote sensing, temperature sensors and magnetic sensors. There are plans in the future of deploying temperature sensors that can measure temperatures at long distances, and measure phenomenon such as solar

wind, from long-distance remote locations. An average spacecraft contains some hundreds of sensors to help in various application in space.

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