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Global Semiconductor in Aerospace and Military Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor in Aerospace and Military market size is expected to reach $ 129566 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).
Aerospace and military semiconductors refer to semiconductor devices and systems specifically designed for use in aviation, aerospace, defense, and military equipment, requiring high reliability, long lifespan, radiation resistance, shock resistance, and wide temperature range operation even in extreme environments. These products typically undergo stringent military-grade (MIL-STD) or aerospace-grade (ESA/NASA) quality certifications, and their design, manufacturing, packaging, and testing processes differ significantly from those of commercial semiconductors, focusing on 'high reliability, high environmental adaptability, and high security levels.' The aerospace and defense sectors have extremely high requirements for upstream semiconductors, including material purity, radiation resistance, reliability, and long-term supply capabilities. These mainly consist of the following categories: Semiconductor wafer materials (Silicon / SOI / GaAs / GaN / SiC), Optoelectronic and detection materials (InGaAs / HgCdTe / InP / SiGe), Packaging substrates and high-reliability packaging materials (Ceramic Package / Kovar / High-temperature solder), etc. Upstream, participants include SOITEC, GlobalWafers, Sumco, Teledyne Imaging, II-VI / Coherent and Hamamatsu, etc. Downstream: include Aerospace, Weapons, etc. and the key players include NASA, ESA, SpaceX, Lockheed Martin and CASC, etc.
Rapid expansion of satellites, space systems, and UAV platforms is accelerating demand for radiation-hardened, lightweight, and high-power semiconductor devices. LEO/MEO constellations, Earth-observation payloads, optical sensors, inter-satellite links, and propulsion system controllers require rad-hard FPGAs, GaN/SiC power devices, and optoelectronic semiconductors. Large-scale deployment of military drones further boosts the need for navigation chips, MEMS sensors, and high-bandwidth

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communication ICs.

This report studies the global Semiconductor in Aerospace and Military demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor in Aerospace and Military, and provides market size (US$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Semiconductor in Aerospace and Military that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor in Aerospace and Military total market, 2021-2032, (USD Million)

Global Semiconductor in Aerospace and Military total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Semiconductor in Aerospace and Military total market, key domestic companies, and share, (USD Million)

Global Semiconductor in Aerospace and Military revenue by player, revenue and market share 2021-2026, (USD Million)

Global Semiconductor in Aerospace and Military total market by Type, CAGR, 2021-2032, (USD Million)

Global Semiconductor in Aerospace and Military total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Semiconductor in Aerospace and Military market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CETC, Texas Instruments (TI), Analog Devices, Microchip, Intel, CASC, Infineon Technologies, AMD, Guoxin Micro, ON Semiconductor, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Semiconductor in Aerospace and Military market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Semiconductor in Aerospace and Military Market, By Region:

United States

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China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor in Aerospace and Military Market, Segmentation by Type:

Integrated Circuits

Discrete Devices

Optoelectronics and Isolation

Hybrids and Modules

RF and Microwave Devices

Others

Global Semiconductor in Aerospace and Military Market, Segmentation by Materials:

Si

SiC

GaN

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Others

Global Semiconductor in Aerospace and Military Market, Segmentation by Platform:

Space

Airborne

Naval

Ground

Global Semiconductor in Aerospace and Military Market, Segmentation by Application:

Aerospace

Weapons

Ship

Communication

Others

Companies Profiled:

CETC

Texas Instruments (TI)

Analog Devices

Microchip

Intel

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CASC

Infineon Technologies

AMD

Guoxin Micro

ON Semiconductor

BAE Systems

NXP Semiconductors

Skyworks

Broadcom

Northrop Grumman

Qorvo

Guizhou Zhenhua Fengguang

Renesas

Key Questions Answered

1. How big is the global Semiconductor in Aerospace and Military market?
2. What is the demand of the global Semiconductor in Aerospace and Military market?
3. What is the year over year growth of the global Semiconductor in Aerospace and Military market?
4. What is the total value of the global Semiconductor in Aerospace and Military market?
5. Who are the Major Players in the global Semiconductor in Aerospace and Military market?
6. What are the growth factors driving the market demand?

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