

High-Altitude Electromagnetic Pulse (EMP) Satellite Sensor Market: Future Demand and Top Key Players Analysis | 2029

The Business Research Company's High-Altitude Electromagnetic Pulse (EMP) Satellite Sensor Global Market Report 2025 – Market Size, And Forecast 2025-2034

LONDON, GREATER LONDON, UNITED KINGDOM, October 28, 2025 /EINPresswire.com/ -- What Is The



Expected Cagr For The <u>High-Altitude Electromagnetic Pulse (EMP) Satellite Sensor Market</u> Through 2025?

The market size for high-altitude electromagnetic pulse (EMP) satellite sensors has witnessed accelerated growth in the past few years, skyrocketing from \$1.62 billion in 2024 to an expected



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\$1.80 billion in 2025, with a compound annual growth rate (CAGR) of 11.3%. The rise during the historic period is ascribed to greater military spending, escalating geopolitical conflicts, a mounting demand for nationwide security, the expansion of satellite defense programs, and the escalating risk of high-altitude nuclear explosions.

The market size for high-altitude electromagnetic pulse (EMP) satellite sensors is set to experience substantial expansion in the upcoming years, reaching a value of \$2.73 billion in 2029 with a compound annual growth rate (CAGR) of 11.0%. This growth during the forecast period can be

attributed to several factors such as the burgeoning use of state-of-the-art satellite sensors, ascending government defense expenses, increased demand for robust space infrastructure, the launch of expanded strategic defense initiatives, and the rising necessity for swift detection technologies. The forecast period also sees trending developments in sensor precision, enhancements in research and development, breakthroughs in electromagnetic pulse (EMP) mitigation systems, the incorporation of artificial intelligence and machine learning, and the uptake of miniaturized satellite platforms.

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What Are The Key Factors Driving Growth In The High-Altitude Electromagnetic Pulse (EMP) Satellite Sensor Market?

The anticipated growth of high-altitude electromagnetic pulse (EMP) satellite sensor market is seen to be directly linked to increased government investments and defense budgets. These types of fiscal allocations are typically directed towards enhancing military operations, defense acquisition, and research and development, with a focus on national security and readiness for future threats. The escalation in geopolitical tensions coupled with the necessity to upgrade current military capacities for tackling emerging issues have seen a significant rise in these investments and budgets. Governments are sponsoring the development, implementation, and amelioration of high-altitude EMP satellite sensors to ensure protection of vital infrastructure from potential electromagnetic threats. An example of this is February 2025's findings from the Stockholm International Peace Research Institute (SIPRI), a Sweden-based international research institute. According to SIPRI, global defense expenditure experienced a hike in 2024, going from USD 2.24 Trillion in the preceding year to USD 2.46 Trillion. Therefore, it becomes evident that the augmentation in government investments and defense budgets are key factors in the growth of the high-altitude electromagnetic pulse (EMP) satellite sensor market. Cybersecurity threats are continuously on the rise, which in turn facilitates the growth of the high-altitude electromagnetic pulse (EMP) satellite sensor market. These threats are malicious attempts to steal, damage or disrupt digital networks and data. The rapid increase of digital data and interconnected devices has only expanded these threats, creating a larger attack surface for cybercriminals. High-altitude EMP satellite sensors have been employed in cybersecurity to detect and monitor any electromagnetic pulses which could negatively affect key communication and information systems. According to findings from Check Point Software Technologies Ltd., a leading provider of cybersecurity solutions, there was a 38% rise in cyber-attacks in 2022 compared to the year before, with companies being subjected to approximately 1,168 cyberattacks a week. Accordingly, an increase in cybersecurity threats is contributing to the expansion of the high-altitude electromagnetic pulse (EMP) satellite sensor market.

What Are The Top Players Operating In The High-Altitude Electromagnetic Pulse (EMP) Satellite Sensor Market?

Major players in the High-Altitude Electromagnetic Pulse (EMP) Satellite Sensor Global Market Report 2025 include:

- Lockheed Martin Corporation
- Northrop Grumman Corporation
- BAE Systems plc
- L3Harris Technologies Inc.
- Los Alamos National Laboratory
- Teledyne Technologies Incorporated

- Sandia National Laboratories
- General Atomics Electromagnetic Systems
- Curtiss-Wright Corporation
- Johns Hopkins University Applied Physics Laboratory

Comprehensive Segment-Wise Insights Into The High-Altitude Electromagnetic Pulse (EMP) Satellite Sensor Market

The high-altitude electromagnetic pulse (EMP) satellite sensor market covered in this report is segmented as

- 1) By Sensor Type: Active Sensors, Passive Sensors, Hybrid Sensors
- 2) By Platform: Satellites, Unmanned Aerial Vehicles, Manned Aircraft, Other Platforms
- 3) By Frequency, Range: Low Frequency, Medium Frequency, High Frequency
- 4) By Application: Military And Defense, Aerospace, Space Research, Communication, Other Applications
- 5) By End-User: Government, Commercial, Research Organizations

Subsegment:

- 1) By Active Sensors: Radar-Based Sensors, Lidar-Based Sensors, Laser Sensors
- 2) By Passive Sensors: Optical Sensors, Infrared Sensors, Magnetic Field Sensors, Electric Field Sensors
- 3) By Hybrid Sensors: Combined Radar-Optical Sensors, Combined Infrared-Magnetic Sensors, Multi-Modal Electromagnetic Pulse (EMP) Sensors

View the full high-altitude electromagnetic pulse (emp) satellite sensor market report: https://www.thebusinessresearchcompany.com/report/high-altitude-electromagnetic-pulse-emp-satellite-sensor-global-market-report

Global High-Altitude Electromagnetic Pulse (EMP) Satellite Sensor Market - Regional Insights In 2024, North America was the leading region in the High-Altitude Electromagnetic Pulse (EMP) Satellite Sensor Global Market, with Asia-Pacific projected to experience the most rapid growth in the following year. The report takes into account all regions, encompassing Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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