

Defense Electronics Market Research Insights 2025–2032 | Technology & Growth - DataM Intelligence

Global Defense Electronics Market Surges Toward Multi-Function Radar and Sensor Systems

AUSTIN, TX, UNITED STATES, August 19, 2025 /EINPresswire.com/ -- Market Size and Growth

The Global [Defense Electronics Market](#) was valued at about US\$173.98 billion in 2024 and is forecasted to climb to nearly US\$254.51 billion by 2032, advancing at a steady CAGR of 4.87% between 2025 and 2032. The global

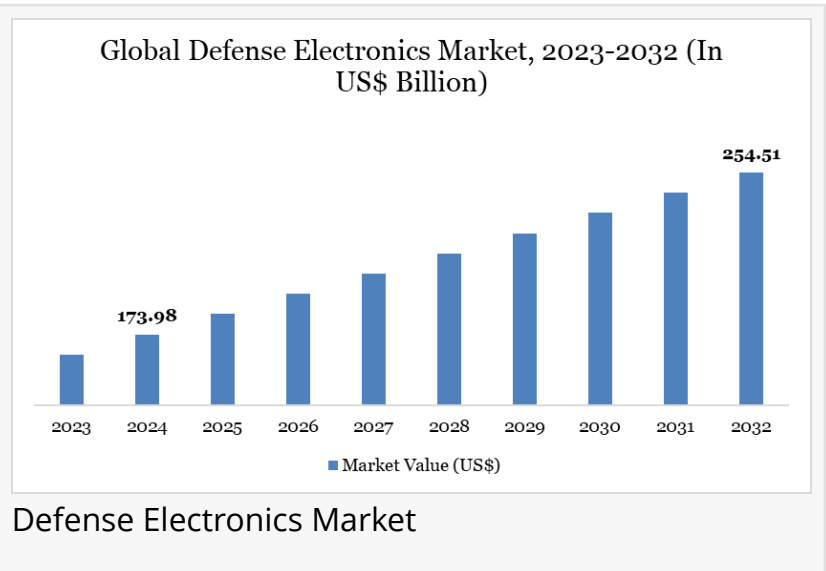
defense electronics market is experiencing robust growth driven by rising defense budgets, continuous modernization programs, and the increasing need for advanced surveillance, communication, and electronic warfare systems.

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The U.S. defense electronics market, valued at \$173.98B in 2024, is set to hit \$254.51B by 2032, driven by rising military tech upgrades and innovation”

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Geopolitical tensions and evolving security threats are pushing nations to invest in cutting-edge radar, avionics, and command-and-control solutions. Technological advancements, such as AI integration, gallium nitride (GaN) components, and space-based defense platforms, are further enhancing system efficiency and operational capabilities. Additionally, the shift toward indigenous manufacturing and strategic defense collaborations is expanding production capacity and fostering innovation across regions.



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Incorporation of Artificial Intelligence and Machine Learning into Defense Electronics

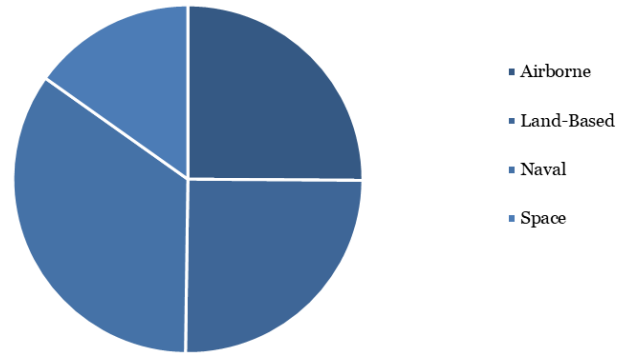
The incorporation of artificial intelligence (AI) and machine learning (ML) into defense electronics is a key driver of market growth, as these technologies significantly enhance situational awareness, decision-making speed, and operational efficiency. In 2024, Safran Electronics & Defense introduced its Advanced Cognitive Engine (ACE) AI system, designed to integrate AI capabilities into all its products, providing improved situational awareness, real-time decision support, and reduced cognitive load for forces in the field.

Building on this trend, Lockheed Martin announced that in 2025 it will launch the AI Fight Club, a competitive simulation platform to test and evaluate AI systems for defense applications under Department of Defense (DoD)-aligned conditions. Such initiatives highlight how AI-driven innovations are transforming defense electronics into more adaptive, predictive, and autonomous systems, directly fueling demand across global defense markets.

Key Players:

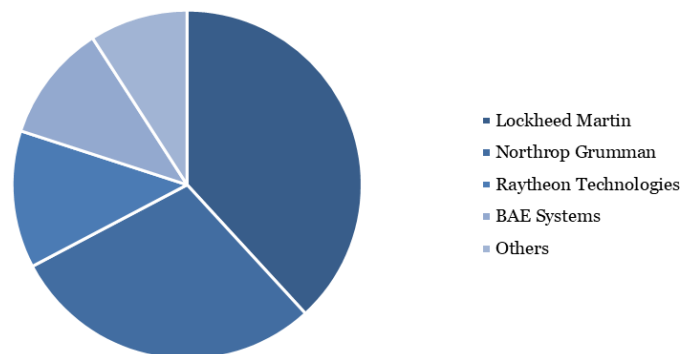
Lockheed Martin
Northrop Grumman
Raytheon Technologies
BAE Systems
L3Harris Technologies
Thales Group
Hensoldt
Aselsan
Kratos Defense & Security Solutions
Mercury Systems

Global Defense Electronics Market, By Platform
(%), 2024



By Platform

Global Defense Electronics Market, Company
Share Analysis, 2024



Company Share

Market Segments:

By Platform: Airborne, Land-Based, Naval, Space

By Product Type: Communication Systems, Radar Systems, Electronic Warfare Systems, Optronics & Infrared Systems, Command & Control Systems, Others

By Application: Intelligence, Surveillance & Reconnaissance, Command & Control, Navigation, Target Acquisition, Others

By Region: North America, US, Canada, Mexico, Europe, Germany, UK, France, Italy, Spain, Rest of Europe, South America, Brazil, Argentina, Rest of South America, Asia-Pacific, China, India, Japan, Australia, Rest of Asia-Pacific, Middle East and Africa

Security Risks Associated with Advanced Technology Deployments

Security risks associated with advanced technology deployments act as a major restraint on the global defense electronics market, as the integration of cutting-edge systems like AI-enabled platforms, networked sensors, and cloud-based command-and-control systems increases exposure to cyber threats, data breaches, and electronic sabotage. Modern defense electronics often rely on highly interconnected digital infrastructure, making them vulnerable to hacking, malware, and electronic interference by adversaries.

A single breach could compromise sensitive military data, disrupt operational readiness, or even disable critical systems during active missions. These risks force governments and defense manufacturers to invest heavily in advanced cybersecurity measures, encryption protocols, and threat mitigation strategies, which increases project costs, extends development timelines, and slows deployment.

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Expansion into Emerging Markets

Expansion into emerging markets presents significant opportunities for the global defense electronics market, as countries in regions such as Asia-Pacific, the Middle East, Africa, and Latin America are rapidly increasing defense spending to modernize their military capabilities. Many of these nations are shifting from importing complete systems to developing local manufacturing and technology transfer partnerships, creating demand for advanced electronics like radars, communication systems, and electronic warfare solutions.

For instance, joint ventures between global defense giants and local firms in India, the UAE, and Brazil are enabling indigenous production, reducing reliance on foreign suppliers, and fostering

skill development.

Land-Based Defense Modernization Fueling Growth in the Global Defense Electronics Market

The land-based segment drives the global defense electronics market through extensive modernization of ground forces and the integration of advanced electronic systems into armored vehicles, artillery, missile defense systems, and command infrastructure. Nations are investing heavily in battlefield communication networks, surveillance radars, and electronic warfare equipment to enhance situational awareness and combat readiness.

For instance, the U.S. Army is upgrading its M1A2 Abrams tanks with next-generation targeting sensors, advanced communications, and active protection systems to meet evolving battlefield threats. In 2024, India's Defence Research and Development Organisation (DRDO) successfully tested an advanced Active Electronically Scanned Array (AESA) radar for ground-based applications, strengthening its border surveillance and air defense capabilities. These advancements underscore how the land-based segment's demand for cutting-edge defense electronics is fueling market growth globally.

Asia-Pacific's Strategic Defense Investments Accelerating Growth in the Global Defense Electronics Market

Asia-Pacific (APAC) region is emerging as a key growth driver for the global defense electronics market, fueled by rising defense investments, modernization programs, and strategic collaborations. In 2024, French defense major Safran Group announced plans to establish its first defense electronics unit outside France in India, reinforcing the country's position as a manufacturing and innovation hub for advanced military technologies.

Meanwhile, Japan is accelerating defense technology development across seven capability domains through international partnerships, strengthening its technological edge. Marking a historic policy shift, Japan committed to raising defense spending to 2% of GDP by 2027, backed by a JPY43 trillion (USD 320 billion) investment plan over five years.

This transformation, driven by heightened regional security challenges and geopolitical tensions such as Russia's invasion of Ukraine, reflects a strong focus on military modernization. These developments highlight APAC's growing demand for cutting-edge electronics in areas such as radar, communication, and electronic warfare, making the region a critical market for global defense technology providers.

Conclusion

The global defense electronics market is poised for sustained growth, driven by rising defense budgets, rapid technological advancements, and the increasing complexity of modern warfare. Nations are prioritizing the integration of advanced systems such as AI-enabled platforms, multi-

function radars, and secure communication networks to enhance operational readiness.

Geopolitical tensions and evolving security threats are compelling governments to invest in modernization programs across land, air, naval, and space domains. Strategic collaborations, joint ventures, and technology transfers are fostering innovation and expanding indigenous production capabilities, particularly in emerging markets.

The Asia-Pacific region, led by India and Japan, is playing a pivotal role in driving demand for cutting-edge defense electronics. However, challenges such as high procurement costs, cybersecurity risks, and regulatory complexities may restrain growth. Thus, the market is set to expand as nations strive to maintain technological superiority and strengthen their defense infrastructure.

Why Choose This Global Defense Electronics Market Report?

- Latest Data & Forecasts: In-depth, up-to-date analysis through 2032
- Regulatory Intelligence: Actionable insights on key policies (Kigali, AIM, F-Gas, ICAP)
- Competitive Benchmarking: Evaluate strategies of Chemours, Honeywell, and emerging players
- Emerging Market Coverage: Special focus on India, China, and high-growth APAC economies
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