

C5ISR Market Size, Share & Trends Analysis Report By Component (Hardware, Software, Services), By End Use (Ground, Naval, Air, Space), By Application, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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C5ISR Market Size & Trends

The global C5ISR market size was estimated at USD 144.23 billion in 2024 and is projected to grow at a CAGR of 4.7% from 2025 to 2030. This development is fueled by a mix of technological innovation, rising defense budgets, and the growing requirement for higher operational effectiveness and situational awareness in both security and military uses. As governments upgrade their defense infrastructure to counter evolving threats and improve their operating capabilities, demand for integrated Command, Control, Communications, Computers, Combat Systems, Intelligence, Surveillance, and Reconnaissance (C5ISR) solutions keeps on rising. The market is heavily impacted by the ongoing transformation of communication networks, cloud computing, and AI, which form the core for enhancing real-time data analysis, decision-making activities, and operations performance. Merging machine learning, autonomous technologies, and 5G tech is defining C5ISR solution futures by enabling quicker and safer communication networks, improving surveillance and reconnaissance missions, and enhancing command missions. Furthermore, the growth of cybersecurity threats has created a greater need for secure and encrypted communication platforms in C5ISR systems to protect sensitive information and ensure operational integrity.

Major players in the C5ISR industry are industry leaders like Lockheed Martin, Northrop Grumman, Raytheon Technologies, General Dynamics, and BAE Systems, which are investing heavily in new technologies, product development, and strategic alliances

to stay ahead of the competition. These firms emphasize improving system in and platform interoperability, and building scalable solutions to address the increasing need for end-to-end C5ISR capabilities. They are doing this by developing sophisticated combat management systems, intelligence collection platforms, and surveillance technologies that will aid in military operations and national security efforts. One of the most important market expenditure areas is surveillance and reconnaissance systems, which are essential for intelligence gathering and real-time situational awareness. These systems are applied widely in military operations, border patrol, and intelligence agencies, enabling real-time monitoring of activities. Another important area is communication systems, which enable secure and effective command and control during operations, ensuring that personnel can work together seamlessly in dynamic environments.

As the defense sector remains committed to modernization, cloud-enabled and IoT-supporting devices are becoming increasingly prominent. These devices are increasing C5ISR system scalability and agility by making it possible to save, manage, and transmit data more efficiently. The use of edge computing is also increasing to process data in closer proximity to its source, decreasing latency while enhancing decision-making within real-time operating environments.

Global C5ISR Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global C5ISR Market report based on component, end use, application, and region:

Component Outlook (Revenue, USD Billion, 2018 - 2030)

Hardware

Software

Services

End Use Outlook (Revenue, USD Billion, 2018 - 2030)

Ground

Naval

Air

Space

Application Outlook (Revenue, USD Billion, 2018 - 2030)

Intelligence, Surveillance and Reconnaissance

Command and Control

Electric Warfare

Missile Defense and Radar

Combat Systems

Others

Regional Outlook (Revenue, USD Billion, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

U.K.

Germany

France

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Rest of Asia Pacific

Latin America

Brazil

Rest of Latin America

Middle East & Africa (MEA)

UAE

South Africa

Saudi Arabia

Rest of Middle East & Africa

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