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Global Marine Onboard Communication and Control Systems Market Size Study & Forecast, by Component, Application, Vessel Type, and Regional Forecasts 2025-2035

https://marketpublishers.com/r/M0B7453686B8EN.html
Date: June 2025
Pages: 285
Price: US$ 3,750.00 (Single User License)
ID: M0B7453686B8EN

Abstracts

Global Marine Onboard Communication and Control Systems Market is valued approximately at USD 9.23 billion in 2024 and is anticipated to grow with a CAGR of 7.30% over the forecast period 2025–2035. Marine Onboard Communication and Control Systems are the digital nervous systems of seafaring vessels, acting as the real-time bridge between operators and onboard machinery, crew, and navigation functions. As maritime operations pivot toward smart fleet strategies and integrated control, demand for sophisticated systems that ensure real-time data synchronization, fuel optimization, and predictive diagnostics is surging. These systems orchestrate everything from satellite communications to autonomous navigation—cementing their role as essential tools in both commercial and defense vessels. Heightened emphasis on safety, energy efficiency, and remote monitoring continues to fuel adoption across global maritime infrastructure.

With global maritime trade projected to expand significantly and the commercial shipping fleet undergoing a wave of digitization, the appetite for advanced onboard communication systems has never been stronger. As shipping operators strive to comply with IMO mandates on GHG emissions and operational transparency, the integration of high-bandwidth communication tools and AI-enhanced command modules becomes pivotal. Defense maritime platforms, meanwhile, are witnessing an overhaul in electronic warfare preparedness, with next-generation control systems enabling encrypted communications, threat mapping, and stealth navigation. The rapid expansion of unmanned surface vessels (USVs) and multi-role combat vessels also opens new avenues for command-and-control system vendors. However, challenges

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such as legacy system integration, high setup costs, and cybersecurity vulnerabilities could temper short-term adoption rates.

Regionally, North America is expected to maintain a commanding market presence due to the U.S. Navy's substantial investments in naval modernization and the region's early adoption of next-gen vessel management technologies. Europe follows closely, buoyed by aggressive green shipping policies and digital port transformations spearheaded by nations like Germany, the Netherlands, and Norway. The Asia Pacific region is projected to grow at the fastest pace, driven by surging maritime trade, strategic naval upgrades in China and India, and government-led shipbuilding initiatives across Southeast Asia. Furthermore, Latin America and the Middle East & Africa regions are gradually embracing smart vessel systems to enhance operational resilience, particularly for offshore resource exploration and regional security missions.

Major market players included in this report are:

Kongsberg Gruppen ASA

Northrop Grumman Corporation

W?rtsil? Corporation

Honeywell International Inc.

Saab AB

Raytheon Technologies Corporation

Furuno Electric Co., Ltd.

Thales Group

General Electric Company

Leonardo S.p.A.

BAE Systems

Ultra Electronics

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Japan Radio Co., Ltd.

Valmarine AS

L3Harris Technologies Inc.

Global Marine Onboard Communication and Control Systems Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Component:

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Hardware

Software

Services

By Application:

Navigation Systems

Communication Systems

Command & Control

Vessel Monitoring

By Vessel Type:

Commercial Vessels

Defense Vessels

Fishing Vessels

By Region:

North America

U.S.

Canada

Europe

UK

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- Germany
- France
- Spain
- Italy
- Rest of Europe

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico

Middle East & Africa

- UAE
- Saudi Arabia

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South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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