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Global Shipboard Communication, Navigation and Control Systems Market 2026 by Company, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/GF006586D33FEN.html
Date: June 2026
Pages: 145
Price: US$ 3,480.00 (Single User License)
ID: GF006586D33FEN

Abstracts

According to our (Global Info Research) latest study, the global Shipboard Communication, Navigation and Control Systems market size was valued at US$ 3961 million in 2025 and is forecast to a readjusted size of US$ 5684 million by 2032 with a CAGR of 5.2% during review period.

Marine shipboard communication, navigation and control systems refer to the dedicated onboard electronic, communication, navigation, automation, monitoring and control equipment installed on commercial vessels, offshore vessels, passenger ships, special-purpose vessels, fishing vessels, workboats, naval auxiliaries and large yachts to support safe navigation, distress and safety communications, bridge situational awareness, machinery monitoring, alarm management, propulsion control, power and energy management, vessel data acquisition and integrated operation of critical shipboard subsystems.

The scope primarily covers GMDSS safety communication systems, VHF/MF/HF DSC radio equipment, NAVTEX, EPIRB, SART, AIS, marine radar, ECDIS, autopilot, BNWAS, VDR, conning displays, integrated bridge systems, integrated navigation systems, alarm monitoring systems, power management systems, propulsion control systems, integrated control and monitoring systems, vessel management systems, bridge consoles, human-machine interfaces, sensor data interfaces and class-approved shipboard software platforms. The defining technical attributes of this market are marine-grade reliability, continuous operation in harsh vibration, humidity, salt-mist and electromagnetic environments, interoperability with ship sensors and machinery, redundancy for safety-critical functions, compliance with IMO/SOLAS/GMDSS requirements, and conformity with relevant IEC and IACS requirements for navigation

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displays, onboard computer-based systems and cyber-resilient shipboard control systems.

Typical pricing varies significantly by vessel type, class notation, redundancy level and system integration scope: individual safety communication or AIS devices may range from several thousand to tens of thousands of US dollars, a commercial integrated bridge package may reach several hundred thousand US dollars, while high-end vessel automation, propulsion control and power management projects can reach the million-dollar level or above.

Based on our research, the market for marine shipboard communication, navigation and control systems should be understood as a system-level shipboard electronics and automation market rather than a narrow market for marine radios or standalone bridge equipment. The demand foundation is created by mandatory safety and radiocommunication requirements, the modernization of GMDSS, e-navigation initiatives, class requirements for onboard computer-based systems and cyber-resilient shipboard control, and the operational need for safer, more efficient and more integrated vessel operations. Compared with generic industrial automation, this market carries a stronger layer of regulatory approval, class certification, marine environmental qualification, redundancy design and lifecycle service requirements. Compared with consumer or leisure marine electronics, the core value of the professional shipboard market lies in the stable integration of communications, navigation sensors, bridge workstations, machinery alarms, propulsion control, power management and vessel data interfaces. IMO?s GMDSS and e-navigation framework, together with IEC and IACS requirements, supports a long-term industry trajectory toward safer, more connected, standardized and information-rich ship operations.

From a supply-side perspective, Europe and Japan remain the two most important high-end supply bases. European companies are particularly strong in integrated bridge systems, vessel automation, propulsion control, power and energy management, and complex project delivery for offshore, cruise, naval and specialized vessels. Japanese suppliers maintain strong positions in GMDSS equipment, radar, ECDIS, AIS, VDR, marine radio and established navigation electronics. The leading and second-tier supply base is represented by Kongsberg Maritime, W?rtsil?/NACOS, Furuno, JRC, Sperry Marine, Ansch?tz, ABB, Emerson, Praxis Automation, RH Marine, NORIS, B?ning, Cobham Satcom and Icom. China, South Korea and Taiwan are increasingly relevant in selected product categories such as GMDSS, AIS, BeiDou-based ship terminals, marine communication terminals, navigation instruments and smart ship platforms, but their position in high-end merchant integrated bridge and global automation projects

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remains more uneven and depends on type approval, international shipyard adoption, references and service coverage.

From the demand side, the market is not driven solely by the number of newbuild vessels. It is supported by a combination of newbuild installation, retrofit and replacement demand, regulatory upgrades, cyber-security compliance, fleet digitalization, energy management requirements and the modernization of bridge operations. UNCTAD reported that, by January 2025, the world fleet counted 112,500 vessels with 2.44 billion deadweight tons, providing a large installed base for periodic replacement, servicing and upgrade of shipboard communication, navigation, safety and automation systems. At the same time, route disruptions, longer voyage distances, geopolitical uncertainty and operating cost pressures are increasing the value of reliable situational awareness, alarm management, remote diagnostics, data capture and integrated control. This supports a shift in market value from standalone hardware procurement toward integrated platforms, software-enabled upgrades and lifecycle services.

From a product and technology perspective, the industry is moving from discrete shipboard equipment toward integrated, modular, networked and cyber-certified architectures. GMDSS, radar, ECDIS, AIS, VDR, autopilot, BNWAS, alarm monitoring and propulsion control remain essential building blocks, but leading vendors increasingly integrate them through common workstations, unified operator interfaces, sensor data networks, remote service gateways and class-approved software platforms. Kongsberg?s K-Bridge and K-Chief, W?rtsil?/NACOS navigation and automation systems, ABB?s marine 800xA integrated automation, Emerson?s Aperio integrated control and monitoring system, Furuno?s VOYAGER bridge system and JRC?s broad GMDSS and navigation equipment catalogue all illustrate this direction. The future competitive frontier will therefore be determined less by single-device specifications alone and more by redundancy design, interface consistency, class approval, cyber resilience, data interoperability, global service networks and the ability to work with shipyards and shipowners across the full lifecycle.

This report is a detailed and comprehensive analysis for global Shipboard Communication, Navigation and Control Systems market. Both quantitative and qualitative analyses are presented by company, by region & country, by Product Function and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected

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leaders for the year 2025, are provided.

Key Features:

Global Shipboard Communication, Navigation and Control Systems market size and forecasts, in consumption value ($ Million), 2021-2032

Global Shipboard Communication, Navigation and Control Systems market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Shipboard Communication, Navigation and Control Systems market size and forecasts, by Product Function and by Application, in consumption value ($ Million), 2021-2032

Global Shipboard Communication, Navigation and Control Systems market shares of main players, in revenue ($ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Shipboard Communication, Navigation and Control Systems

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Shipboard Communication, Navigation and Control Systems 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 Kongsberg Maritime, W?rtsil?, Furuno Electric Co., Ltd., Japan Radio Co., Ltd., Sperry Marine B.V., Ansch?tz GmbH, ABB Marine & Ports, Emerson Electric Co., Rolls-Royce Power Systems, Cobham Satcom, etc.

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

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Market segmentation

Shipboard Communication, Navigation and Control Systems market is split by Product Function and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Product Function and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Product Function

- Safety Communication Systems
- Navigation and Bridge Systems
- Automation and Control Systems
- Data Recording and Interface Systems
- Other

Market segment by System Integration Level

- Standalone Equipment
- Subsystem Packages
- Integrated Bridge / Navigation Systems
- Integrated Vessel Automation Platforms

Market segment by Sales Scenario

- Newbuild Installation
- Retrofit and Replacement

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Lifecycle Service and Upgrade

Fleet Standardization Projects

Other

Market segment by Application

Merchant Cargo Vessels

Passenger and Cruise Vessels

Offshore and Special-purpose Vessels

Fishing Vessels and Professional Small Craft

Yachts and Leisure Marine

Other

Market segment by players, this report covers

Kongsberg Maritime

W?rtsil?

Furuno Electric Co., Ltd.

Japan Radio Co., Ltd.

Sperry Marine B.V.

Ansch?tz GmbH

ABB Marine & Ports

Emerson Electric Co.

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Rolls-Royce Power Systems

Cobham Satcom

Praxis Automation Technology

RH Marine

Icom Inc.

SAMYUNG ENC Co., Ltd.

New Sunrise Co., Ltd.

Fujian Feitong Communication Technology

NORIS Group GmbH

B?ning Automationstechnologie

Alphatron Marine B.V.

Danelec A/S

Tokyo Keiki Inc.

Alltek Marine Electronics

CSSC Changjiang Technology

Beijing Hwa Create Corporation

AMI Marine Ltd.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

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Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Shipboard Communication, Navigation and Control Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Shipboard Communication, Navigation and Control Systems, with revenue, gross margin, and global market share of Shipboard Communication, Navigation and Control Systems from 2021 to 2026.

Chapter 3, the Shipboard Communication, Navigation and Control Systems competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Product Function and by Application, with consumption value and growth rate by Product Function, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and Shipboard Communication, Navigation and Control Systems market forecast, by regions, by Product Function and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Shipboard Communication, Navigation and Control Systems.

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Chapter 13, to describe Shipboard Communication, Navigation and Control Systems research findings and conclusion.

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3 MARKET COMPETITION, BY PLAYERS

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