

# Global Autopilot Controller Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Autopilot Controller market size was valued at US\$ 201 million in 2025 and is forecast to a readjusted size of US\$ 305 million by 2032 with a CAGR of 6.2% during review period.

The autopilot controller is the core control unit of a ship's automatic steering system. Its primary function is to provide continuous and stable control commands to the steering gear, hydraulic actuators, or electric steering motors under specified heading or track conditions. This significantly reduces the workload on the crew during cruising, long-distance voyages, rough seas, or multi-tasking navigation scenarios. This device typically forms a closed-loop control system with heading sensors (magnetic compass/gyrocompass), GNSS, wind speed and direction sensors, speedometers, and the steering gear system, making it a typical 'decision and execution center' in the ship's control system. From an engineering perspective, the autopilot controller is not an isolated device but an important submodule of the ship's navigation control system. The stability of its control algorithms, redundant design, and long-term reliability directly affect the ship's heading accuracy and navigation safety. In 2025, the global market for new shipboard autopilot controllers is projected to reach approximately 127,000 units, with leisure boats and small to medium-sized yachts accounting for the largest share in terms of volume, but large yachts, engineering vessels, and high-end commercial vessels contributing more in terms of value. The price of a single autopilot controller is typically around US\$1,540; however, if it is part of a complete system including steering gear, hydraulic pump, and sensors, the delivery price can increase to US\$3,000 per set. In terms of typical equipment usage, a 30-45 foot yacht usually has one autopilot controller; large service vessels and engineering vessels often have two or more to meet redundancy and multiple bridge requirements.

## Supply Chain Overview

The upstream supply chain for autopilot controllers primarily includes industrial-grade MCU/SoC chips, attitude and heading sensors, power drive and interface modules, marine-grade PCBs and connectors, waterproof and corrosion-resistant housings, and human-machine interface components. Control chips, sensors, and embedded software account for 55%–70% of the system cost, with long-term supply stability and electromagnetic interference resistance being critical technical boundaries. Typical upstream suppliers include: NXP Semiconductors, STMicroelectronics, Infineon, Analog Devices, and TE Connectivity.

## Breakthrough Point

For autopilot controller manufacturers, the true breakthrough point is not in continuously increasing rudder angle resolution or simply stacking sensors, but in deeply coupling adaptive control algorithms with multi-source navigation data, as Garmin has done, to systematically reduce heading deviation and energy loss in complex sea conditions. Compared to traditional autopilot controllers with fixed PID parameters, Garmin introduces a dynamic parameter adjustment mechanism based on ship speed, steering inertia, and environmental disturbances in its high-end autopilots. This allows the controller to correct steering responses in real-time under crosswinds, gusts, and load changes. The practical effect is a significant reduction in high-frequency rudder movements, reducing hydraulic system wear and energy consumption while maintaining heading stability. As the algorithm continuously learns from a large number of real-world sailing scenarios, different ship types, displacements, and speed ranges are gradually internalized into the control model's experience, evolving the autopilot controller from a 'mechanical execution unit' to a 'core control node with navigation strategy optimization capabilities.' This is a critical turning point in the industry, shifting from hardware competition to system value competition.

## Case Study

In practical applications, Garmin's autopilot controllers have been widely deployed in high-end yachts and long-distance cruising fleets in North America and Europe. For example, on several transoceanic yachts, owners have integrated the Garmin autopilot with their GNSS, heading sensors, and multi-function display systems for continuous heading maintenance and track following over tens of hours. Actual operational feedback shows that in moderate to rough seas, the system significantly reduces the

frequency of manual intervention, achieves faster heading deviation convergence, and reduces rudder activity, thereby reducing energy consumption and maintenance requirements. This type of real-world navigation data and performance has been incorporated into the selection and bidding technical specifications by numerous yacht manufacturers and owners, making autopilot controllers no longer merely considered a 'convenience feature,' but rather a standardized system module with clear economic and operational value.

## Applications

Autopilot controllers are primarily used for heading maintenance during long-distance cruising, stable track control in complex sea conditions, sailing in wind direction mode, directional navigation and low-speed operation of offshore engineering vessels, and centralized steering control of multi-helm vessels. Typical downstream customers include: large yacht owners, offshore engineering vessel operators, high-end government vessel users, merchant ship owners, and complete vessel manufacturers such as Beneteau, Azimut-Benetti, Princess Yachts, Damen, and CSSC system shipyards.

## Manufacturer Characteristics

Marine electronics system manufacturers such as Garmin, Raymarine, Simrad, Furuno, and B&G have a core advantage in their integrated capabilities of navigation, sensing, and control. These manufacturers typically deeply integrate autopilot controllers into their comprehensive navigation systems (MFD, radar, GNSS, heading sensors), emphasizing adaptive control, track following, and multi-mode navigation (powerboats/sailboats) at the algorithmic level, and possessing a mature global after-sales and certification system at the engineering level, suitable for high-end yachts, government vessels, and long-distance recreational vessels. Professional steering gear and steering system manufacturers such as Jefa, Octopus, and TMQ Electronics focus on execution end matching and understanding of steering mechanics. Their autopilot controllers are usually highly compatible with steering gears and hydraulic systems, offering greater stability in heavy-duty rudders, low-speed high-torque applications, or special vessel types (engineering vessels, heavy yachts), but rely on external system integration for multi-sensor fusion and advanced algorithms. Commercial vessel and high-level navigation control manufacturers such as Anschuetz, Sperry Marine, and Tokimec emphasize redundant design, long-term reliability, and standard compliance capabilities, possessing advantages in interface standards, system redundancy, and certification completeness, but with relatively slower product iteration speeds.

## Market Influencing Factors

The growth of the autopilot controller market is primarily driven by three factors: firstly, the continuous increase in the number of global recreational boats, high-end yachts, and offshore engineering vessels, making navigation automation a critical need for reducing reliance on human labor; secondly, changes in the crew experience structure and long-term operating cost pressures are driving shipowners to improve navigation stability and safety redundancy through automated control systems; and thirdly, the trend towards integrated navigation systems is gradually transforming autopilot controllers from 'optional equipment' into standardized modules. Regionally, North America and Europe show stable demand in the high-end recreational boat sector, while China and Southeast Asia are experiencing faster growth in the engineering and service vessel markets. In terms of competition, simply improving hardware performance is no longer sufficient to create a competitive advantage; algorithm reliability, system integration capabilities, and long-term engineering validation experience are becoming the core variables determining a manufacturer's market position.

This report is a detailed and comprehensive analysis for global Autopilot Controller market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Loop Frequency 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 leaders for the year 2025, are provided.

### **Key Features:**

Global Autopilot Controller market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Autopilot Controller market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Autopilot Controller market size and forecasts, by Loop Frequency and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Autopilot Controller market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Autopilot Controller

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 Autopilot Controller market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Garmin (Public, Olathe, USA), Raymarine (Public, Hudson, USA), Simrad (Private, Egersund, Norway), Furuno (Public, Hyogo, Japan), B&G (Private, St. Petersburg, USA), Jefa (Private, Greve, Denmark), Symcom Marine (Private, Dubai, UAE), Humminbird (Public, Eufaula, USA), Octopus (Private, BC, Canada), Anschuetz (Private, Kiel, Germany), etc.

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

### **Market Segmentation**

Autopilot Controller market is split by Loop Frequency and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Loop Frequency, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Loop Frequency

1–2 Hz

?5 Hz

Market segment by Control Method

Heading Hold

Track Following

Wind Compensation

#### Market segment by Integration Method

Independent Controller

Deeply Integrated

#### Market segment by Application

Merchant Ships

Fishing Boats

Yacht

Others

#### Major players covered

Garmin (Public, Olathe, USA)

Raymarine (Public, Hudson, USA)

Simrad (Private, Egersund, Norway)

Furuno (Public, Hyogo, Japan)

B&G (Private, St. Petersburg, USA)

Jefa (Private, Greve, Denmark)

Symcom Marine (Private, Dubai, UAE)

Humminbird (Public, Eufaula, USA)

Octopus (Private, BC, Canada)

Anschuetz (Private, Kiel, Germany)

Sperry Marine (Public, Charlottesville, USA)

Tokimec (Public, Tokyo, Japan)

Highlander (Private, Beijing, China)

CSSC (Private, Shanghai, China)

Volvo Penta (Public, G?teborg, Scotland)

Navis (Private, Vantaa, Finland)

ComNav (Private, Richmond, Canada)

TMQ Electronics (Private, Murarrie, Australia)

Lida Navigation (Private, Shanghai, China)

CPT (Private, Aptos, USA)

Pelagic (Private, San Leandro, USA)

Nke Marine Electronics (Private, Hennebont, France)

Sande Marine (Private, Nanjing, China)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Autopilot Controller product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Autopilot Controller, with price, sales quantity, revenue, and global market share of Autopilot Controller from 2021 to 2026.

Chapter 3, the Autopilot Controller competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Autopilot Controller breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Loop Frequency and by Application, with sales market share and growth rate by Loop Frequency, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Autopilot Controller market forecast, by regions, by Loop Frequency, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

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