

# Global Autopilot Controller Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Autopilot Controller market size is expected to reach \$ 305 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

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 studies the global Autopilot Controller production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Autopilot Controller and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Autopilot Controller that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Autopilot Controller total production and demand, 2021-2032, (K Units)

Global Autopilot Controller total production value, 2021-2032, (USD Million)

Global Autopilot Controller production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Autopilot Controller consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Autopilot Controller domestic production, consumption, key domestic

manufacturers and share

Global Autopilot Controller production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Autopilot Controller production by Loop Frequency, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Autopilot Controller production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Autopilot Controller market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Autopilot Controller market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Loop Frequency, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Autopilot Controller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Autopilot Controller Market, Segmentation by Loop Frequency:

1–2 Hz

?5 Hz

Global Autopilot Controller Market, Segmentation by Control Method:

Heading Hold

Track Following

Wind Compensation

Global Autopilot Controller Market, Segmentation by Integration Method:

Independent Controller

Deeply Integrated

Global Autopilot Controller Market, Segmentation by Application:

Merchant Ships

Fishing Boats

Yacht

Others

#### Companies Profiled:

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)

**Key Questions Answered:**

1. How big is the global Autopilot Controller market?
2. What is the demand of the global Autopilot Controller market?
3. What is the year over year growth of the global Autopilot Controller market?
4. What is the production and production value of the global Autopilot Controller market?
5. Who are the key producers in the global Autopilot Controller market?
6. What are the growth factors driving the market demand?

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