

Global Underwater Acoustic Communication Modem Market Growth 2026-2032

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Abstracts

The global Underwater Acoustic Communication Modem market size is predicted to grow from US\$ 3061 million in 2025 to US\$ 5903 million in 2032; it is expected to grow at a CAGR of 10.1% from 2026 to 2032.

In 2025, global sales of underwater acoustic communication devices reached 76,100 units, with an average price of approximately US\$41,000 per unit.

An Underwater Acoustic Communication Modem is a device designed to enable data transmission between submerged objects or systems using sound waves, as radio waves do not propagate well underwater. These modems convert digital data into acoustic signals and transmit them through the water, allowing communication between underwater sensors, remotely operated vehicles (ROVs), autonomous underwater vehicles (AUVs), and surface stations. They are essential for underwater exploration, environmental monitoring, defense applications, and offshore industries, where reliable and efficient communication is needed over short to medium distances in challenging underwater conditions.

Underwater communication has traditionally relied on acoustics, but in recent years, various methods such as visible light, radio frequency (RF), electromagnetic waves, and magnetic induction have emerged. Acoustic communication boasts the longest coverage (several kilometers) and relatively mature equipment, but suffers from low bandwidth and high latency. Underwater optical communication (UWOC) utilizes blue-green light/lasers to achieve speeds from tens of Mbps to Gbps, suitable for short-range, high-throughput scenarios. RF/electromagnetic wave communication penetrates shallow waters but has extremely low speeds, only suitable for ultra-low frequency deep-sea submarine communication. Magnetic induction communication (UMIC) has become

a research hotspot in recent years, offering advantages such as weak multipath propagation and cross-medium stability.

Acoustic communication is used for remote control and underwater internet (UANs); optical communication is used for short-range high-definition acquisition and real-time video (deep-sea exploration, seabed observation networks); RF communication is used for submarine command (ELF/VLF); and magnetic induction communication is applied to short-range safety communication (divers, shipwreck exploration). These different modes complement each other, enabling the construction of multi-medium communication links and improving robustness.

The recent expansion of the global marine economy has led to a surge in demand for underwater acoustic systems. The industry has developed a relatively complete product chain, including commercial underwater acoustic modems (Evologics, LinkQuest, etc.), high-precision sonar positioning systems (Sonardyne, L3), autonomous underwater vehicles (ASV, ROV), and platform integration solutions. China's manned submersible projects such as the 'Jiaolong' and 'Fendouzhe' have driven the development of deep-sea communication prototypes (reaching 10kbps at a depth of 5000m). The defense sector has the strongest demand, with navies worldwide increasing investment to improve their anti-submarine communication networks. The oil and gas and new energy (offshore wind power) industries also have a growing demand for long-endurance, broadband communication. The civilian market, including environmental monitoring and marine scientific research, has significant potential. Consumer applications, such as recreational underwater communication, are still in their early stages.

Many countries have introduced policies to support the underwater acoustic industry. Europe and the United States have mature industrial ecosystems, with companies including Teledyne Marine, Thales Underwater Systems, Kongsberg, and Subsea 7. China has also seen the emergence of a number of aerospace and marine technology companies and research institutes specializing in underwater acoustics, forming a relatively complete R&D and production system. In the commercial sector, underwater acoustic technology has been adopted in submarine observation networks and oil and gas operation networking projects, promoting large-scale applications.

LP Information, Inc. (LPI) ' newest research report, the 'Underwater Acoustic Communication Modem Industry Forecast' looks at past sales and reviews total world Underwater Acoustic Communication Modem sales in 2025, providing a comprehensive analysis by region and market sector of projected Underwater Acoustic Communication Modem sales for 2026 through 2032. With Underwater Acoustic Communication Modem

sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Underwater Acoustic Communication Modem industry.

This Insight Report provides a comprehensive analysis of the global Underwater Acoustic Communication Modem landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Underwater Acoustic Communication Modem portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Underwater Acoustic Communication Modem market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Underwater Acoustic Communication Modem and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Underwater Acoustic Communication Modem.

This report presents a comprehensive overview, market shares, and growth opportunities of Underwater Acoustic Communication Modem market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Short Distance (0-3km)

Medium Distance (3-6km)

Long Distance (6km and above)

Segmentation by Deployment Method:

Underwater Engineering Equipment

Underwater Robots

Seabed Observation Network

Others

Segmentation by Product Structure:

Split Type

All-in-one

Segmentation by Application:

Offshore Oil and Gas

Offshore Mineral Resource Exploration

Offshore Wind Power

Marine Communications

Marine Ranching

Scientific Research and Environmental Monitoring

Military Use

Consumer Use

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

EvoLogics

Kongsberg

L3Harris

Sonardyne

DSPComm

Teledyne Benthos

The 715th Research Institute of China State Shipbuilding Corporation Limited

Shenzhen Zhilan Technology

The Institute of Acoustics of the Chinese Academy of Sciences

Northwestern Polytechnical University

Shenzhen Smart Ocean Technology

Whale Wave Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Underwater Acoustic Communication Modem market?

What factors are driving Underwater Acoustic Communication Modem market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Underwater Acoustic Communication Modem market opportunities vary by end market size?

How does Underwater Acoustic Communication Modem break out by Type, by Application?

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