

Global Underwater Acoustic Communication Modem 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 Underwater Acoustic Communication Modem market size was valued at US\$ 3220 million in 2025 and is forecast to a readjusted size of US\$ 6012 million by 2032 with a CAGR of 9.5% during review period.

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.

This report is a detailed and comprehensive analysis for global Underwater Acoustic Communication Modem market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 Underwater Acoustic Communication Modem market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

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

Global Underwater Acoustic Communication Modem market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Underwater Acoustic Communication Modem market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Underwater Acoustic Communication Modem

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 Underwater Acoustic Communication Modem 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 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, etc.

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

Market Segmentation

Underwater Acoustic Communication Modem market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

Short Distance (0-3km)

Medium Distance (3-6km)

Long Distance (6km and above)

Market segment by Deployment Method

Underwater Engineering Equipment

Underwater Robots

Seabed Observation Network

Others

Market segment by Product Structure

Split Type

All-in-one

Market segment 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

Major players covered

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

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 Underwater Acoustic Communication Modem product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Underwater Acoustic Communication Modem, with price, sales quantity, revenue, and global market share of Underwater Acoustic Communication Modem from 2021 to 2026.

Chapter 3, the Underwater Acoustic Communication Modem competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Underwater Acoustic Communication Modem 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 Type and by Application, with sales market share and growth rate by Type, 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 Underwater Acoustic Communication Modem market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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

Chapter 13, the key raw materials and key suppliers, and industry chain of Underwater Acoustic Communication Modem.

Chapter 14 and 15, to describe Underwater Acoustic Communication Modem sales channel, distributors, customers, research findings and conclusion.

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