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Global IoT-Based Aquaculture System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global IoT-Based Aquaculture System market size is expected to reach $ 282 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

An IoT-based aquaculture system is a smart farming solution that integrates Internet of Things (IoT) technologies to monitor and manage aquatic farming environments in real time. It uses connected sensors and devices to collect data on key parameters such as water temperature, pH, dissolved oxygen, turbidity, ammonia levels, and fish activity. This data is transmitted to cloud-based platforms or local control systems, enabling automated adjustments (e.g., aeration, feeding, water exchange) and early warnings of harmful conditions. The system improves productivity, reduces manual labor, and enhances sustainability and disease prevention in fish, shrimp, or shellfish farming operations.

Currently, IoT-based aquaculture systems are evolving from simple environmental monitoring tools into digital management platforms that cover the entire aquaculture lifecycle. These systems continuously collect environmental data—such as dissolved oxygen, temperature, pH, salinity, turbidity, ammonia nitrogen, and water levels—via sensors. Data is transmitted to cloud or local control platforms using technologies like LoRa, NB-IoT, 4G/5G, Wi-Fi, or satellite communication, enabling remote monitoring, anomaly alerts, and automated equipment coordination across ponds, net cages, hatcheries, and recirculating aquaculture systems (RAS). While applications such as water quality monitoring, automatic aeration, remote control, and scheduled feeding are already mature, technologies like biomass estimation, fish and shrimp behavior analysis, disease risk early warning, and unified multi-site management are currently entering a phase of rapid adoption. In the future, these systems will further integrate

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underwater machine vision, acoustic sensing, edge computing, satellite remote sensing, and AI models. This integration will allow systems to automatically adjust parameters—such as feeding, aeration, water exchange, and temperature control—based on environmental changes, feeding behavior, and growth status. Furthermore, features like digital twins, predictive equipment maintenance, and production traceability will drive the industry toward precision aquaculture, reduced labor reliance, and closed-loop autonomous control.

Market growth for IoT-based aquaculture systems is primarily driven by the expansion of farming scales, rising labor costs, the need to control feed costs, and the demand for better production risk management. Traditional farming models rely heavily on manual pond inspections and empirical judgment, often leading to issues such as discontinuous data collection, delayed hypoxia alerts, inaccurate feeding, and inefficient management across multiple sites. In contrast, IoT systems enable real-time data collection and automatic alerts for water quality anomalies or equipment failures. Some systems can even coordinate the operation of aerators, pumps, valves, and feeders, thereby reducing mortality risks and enhancing production stability. As feed represents a major cost in commercial aquaculture, precision feeding—informed by data on water temperature, dissolved oxygen, biomass, and feeding activity—helps minimize uneaten feed, improve feed conversion rates, and reduce water pollution. Meanwhile, the development of industrial recirculating aquaculture systems, deep-sea net pens, and high-density shrimp farming has increased the reliance of aquaculture enterprises on continuous monitoring and remote control; furthermore, heightened requirements for food safety, eco-friendly farming, and end-to-end traceability are driving the gradual integration of data regarding seed stock, feed, medication, environmental conditions, growth, and harvesting into a unified IoT platform.

Report Scope

This report studies the global IoT-Based Aquaculture System demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for IoT-Based Aquaculture System, 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 IoT-Based Aquaculture System that contribute to its increasing demand across many markets.

Highlights and key features of the study

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Global IoT-Based Aquaculture System total market, 2021-2032, (USD Million)

Global IoT-Based Aquaculture System total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: IoT-Based Aquaculture System total market, key domestic companies, and share, (USD Million)

Global IoT-Based Aquaculture System revenue by player, revenue and market share 2021-2026, (USD Million)

Global IoT-Based Aquaculture System total market by Type, CAGR, 2021-2032, (USD Million)

Global IoT-Based Aquaculture System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global IoT-Based Aquaculture System 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 AKVA group, Innovasea, ScaleAQ, Imenco Aqua, MSD Animal Health?VAKI?, Xylem?YSI?, OxyGuard, Fish Farm Feeder, Arvo-Tec, Eruvaka Technologies, 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 IoT-Based Aquaculture System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Type, 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 IoT-Based Aquaculture System Market, By Region:

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United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global IoT-Based Aquaculture System Market, Segmentation by Type:

Hardware Facilities

Software Platform

Global IoT-Based Aquaculture System Market, Segmentation by Function:

Data Acquisition Type

Remote Monitoring Type

Others

Global IoT-Based Aquaculture System Market, Segmentation by Aquatic Product Type:

Fish

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Shrimp and Crab

Shellfish

Others

Global IoT-Based Aquaculture System Market, Segmentation by Application:

Small-scale Aquaculture Farmers

Medium-scale Commercial Farms

Large-scale Industrial Farms

Companies Profiled:

AKVA group

Innovasea

ScaleAQ

Imenco Aqua

MSD Animal Health?VAKI?

Xylem?YSI?

OxyGuard

Fish Farm Feeder

Arvo-Tec

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Eruvaka Technologies

Ace Aquatec

Aquabyte

UMITRON

OptoScale

XpertSea

TerraConnect

SENECT

AQ1 Systems

AquaMaof

Delfers

Quadlink Technology

Exosite

Wingconn

Luyu BioTech

Qingdao Hishing Smart Equipment

Qingdao Litu Information Technology

Key Questions Answered

1. How big is the global IoT-Based Aquaculture System market?
2. What is the demand of the global IoT-Based Aquaculture System market?

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3. What is the year over year growth of the global IoT-Based Aquaculture System market?
4. What is the total value of the global IoT-Based Aquaculture System market?
5. Who are the Major Players in the global IoT-Based Aquaculture System market?
6. What are the growth factors driving the market demand?

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