

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

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## Abstracts

The global IoT Based Aquaculture Monitoring 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 Monitoring System is a connected fish or shrimp farming setup that uses sensors, communications, and software to continuously monitor pond or tank conditions and automate daily operations. It typically deploys water-quality sensors for variables like temperature, dissolved oxygen, pH, salinity, turbidity, and ammonia or nitrate, plus weather and equipment sensors, then sends the data through networks such as cellular, LoRaWAN, Wi-Fi, or satellite to a cloud or edge gateway for dashboards, alerts, and analytics. Based on real-time readings and predictive models, the system can control aerators, feeders, pumps, and dosing equipment to maintain stable water conditions, optimize feeding and growth, reduce disease risk, cut energy and feed waste, and improve traceability through digital logs of inputs, treatments, and harvests.

Upstream for an IoT Based Aquaculture Monitoring System centers on the technology and hardware supply chain: water-quality and environmental sensors (dissolved oxygen, pH, temperature, salinity, turbidity, ammonia), edge gateways and controllers, embedded chips and modules (MCUs, connectivity modules), power components (solar, batteries), ruggedized enclosures, and the connectivity layer (LoRaWAN, NB-IoT/LTE/5G, Wi-Fi, satellite) plus cloud infrastructure, data platforms, cybersecurity, and algorithm providers (analytics, AI models, digital twins). Midstream integration typically involves system integrators and aquaculture solution vendors that package hardware, software, installation, calibration, and maintenance into farm-ready offerings.

Downstream covers end users and application ecosystems: hatcheries, pond and cage

farms (shrimp, tilapia, salmon, etc.), recirculating aquaculture systems, and aquaculture parks; as well as service partners such as feed companies, equipment operators, labs and veterinarians, insurers, and certification or traceability platforms, with outputs feeding into processors, exporters, retailers, and regulators that use the data for quality assurance, compliance, and supply-chain transparency.

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

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

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

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

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

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

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

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

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

This report profiles major players in the global IoT Based Aquaculture Monitoring 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 MSD Animal Health, AKVA,

Innovasea Systems, XpertSea, Aquabyte, Umitron, TerraConnect, eFishery, SENECT, AQ1 Systems, 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 Monitoring 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 Monitoring System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global IoT Based Aquaculture Monitoring System Market, Segmentation by Type:

Hardware Facilities

## Software Platform

### Global IoT Based Aquaculture Monitoring System Market, Segmentation by Farming Environment:

Pond Aquaculture

Cage/Raft Aquaculture

Tank-based Aquaculture

RAS

Raceway/Canal Aquaculture

### Global IoT Based Aquaculture Monitoring System Market, Segmentation by Application:

Shrimp Farming

Salmon and Coldwater Fish

Tilapia and Freshwater Fish

Others

### Companies Profiled:

MSD Animal Health

AKVA

Innovasea Systems

XpertSea

Aquabyte

Umitron

TerraConnect

eFishery

SENECT

AQ1 Systems

AquaMaof

Delfers Smart Aqua

Quadlink Technology

ScaleAQ

Aquaconnect

Regional Fish Institute

Exosite

iYo-T Technologies

### Key Questions Answered

1. How big is the global IoT Based Aquaculture Monitoring System market?
2. What is the demand of the global IoT Based Aquaculture Monitoring System market?
3. What is the year over year growth of the global IoT Based Aquaculture Monitoring System market?
4. What is the total value of the global IoT Based Aquaculture Monitoring System market?
5. Who are the Major Players in the global IoT Based Aquaculture Monitoring System market?

6. What are the growth factors driving the market demand?

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