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Global IoT-based Smart Aquaculture System Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global IoT-based Smart Aquaculture System market size was valued at US$ 200 million in 2025 and is forecast to a readjusted size of US$ 282 million by 2032 with a CAGR of 5.0% during review period.

An IoT-based smart aquaculture 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 smart aquaculture 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,

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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 is a detailed and comprehensive analysis for global IoT-based Smart Aquaculture System market. Both quantitative and qualitative analyses are presented by company, 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 IoT-based Smart Aquaculture System market size and forecasts, in consumption value ($ Million), 2021-2032

Global IoT-based Smart Aquaculture System market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global IoT-based Smart Aquaculture System market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

Global IoT-based Smart Aquaculture System market shares of main players, in revenue ($ Million), 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 IoT-based Smart Aquaculture System
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 IoT-based Smart Aquaculture System market based on the following parameters - company overview, revenue, gross margin,

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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.

Market segmentation

IoT-based Smart Aquaculture System 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Hardware Facilities

Software Platform

Market segment by Farming Environment

Pond Aquaculture

Cage/Raft Aquaculture

Tank-based Aquaculture

RAS

Raceway/Canal Aquaculture

Market segment by Application

Shrimp Farming

Salmon and Coldwater Fish

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Tilapia and Freshwater Fish

Others

Market segment by players, this report covers

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

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Exosite

iYo-T Technologies

Market segment by regions, regional analysis covers
North America (United States, Canada and Mexico)
Europe (Germany, France, UK, Russia, Italy and Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)
South America (Brazil, Rest of South America)
Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe IoT-based Smart Aquaculture System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of IoT-based Smart Aquaculture System, with revenue, gross margin, and global market share of IoT-based Smart Aquaculture System from 2021 to 2026.

Chapter 3, the IoT-based Smart Aquaculture System competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and IoT-based Smart Aquaculture System market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of IoT-based Smart Aquaculture System.

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Chapter 13, to describe IoT-based Smart Aquaculture System research findings and conclusion.

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