

Global IoT-based Smart Aquaculture System Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/GC477901D852EN.html>

Date: January 2026

Pages: 137

Price: US\$ 3,660.00 (Single User License)

ID: GC477901D852EN

Abstracts

The global IoT-based Smart Aquaculture System market size is predicted to grow from US\$ 191 million in 2025 to US\$ 273 million in 2032; it is expected to grow at a CAGR of 5.4% from 2026 to 2032.

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, 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.

United States market for IoT-based Smart Aquaculture System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for IoT-based Smart Aquaculture System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for IoT-based Smart Aquaculture System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key IoT-based Smart Aquaculture System players cover MSD Animal Health, AKVA, Innovasea Systems, XpertSea, Aquabyte, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the "IoT-based Smart Aquaculture System Industry Forecast" looks at past sales and reviews total world IoT-based Smart Aquaculture System sales in 2025, providing a comprehensive analysis by region and market sector of projected IoT-based Smart Aquaculture System sales for 2026 through 2032. With IoT-based Smart Aquaculture System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world IoT-based Smart Aquaculture System industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for IoT-based Smart Aquaculture System 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 IoT-based Smart Aquaculture System.

This report presents a comprehensive overview, market shares, and growth opportunities of IoT-based Smart Aquaculture System market by product type, application, key players and key regions and countries.

Segmentation by Type:

Hardware Facilities

Software Platform

Segmentation by Farming Environment:

Pond Aquaculture

Cage/Raft Aquaculture

Tank-based Aquaculture

RAS

Raceway/Canal Aquaculture

Segmentation by Application:

Shrimp Farming

Salmon and Coldwater Fish

Tilapia and Freshwater Fish

Others

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 analyzing the company's coverage, product portfolio, its market penetration.

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

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