

## Kerlink® & Distributor GiSupply Announce Water-Quality Monitoring System for Japan's Aquaculture Industry

*Smart-Aquaculture Solution Allows Producers to Make Real-Time Data-Driven Decisions To Optimize Operations and Reduce Costs*

### PRESS RELEASE

**Thorigné-Fouillard, France** and **Hokkaido, Japan** – Dec. 6, 2022, 6:00 p.m. CET – [Kerlink](#) (AKLK – FR0013156007), a specialist in solutions dedicated to the Internet of Things (IoT), and its Japanese distributor, [GiSupply](#), today announced a customized aquaculture-monitoring system that supports sustainable seafood production and lowers farmers' costs.

Japan is one of the world's biggest fish economies. Its Ministry of Agriculture, Forestry and Fisheries (MAFF) estimates that aquaculture production in 2015 totaled nearly \$4.4 billion or 24 percent of the country's total fish production. Kerlink and GiSupply's smart-aquaculture solution targets that market as well as the global fish-farming industry with a LoRa-based sustainable aquaculture business model. Like land-based agriculture, sustainable seafood production is vital for feeding a growing global population, but the worldwide global wild-fish catch has not increased significantly since the early 1990s.

The two companies' smart-aquaculture system enables farmers to optimize operations and make data-driven decisions in real-time by automating water monitoring that formerly was done manually by farm owners or employees who visited farms to collect and analyze data. Their new solution improves effectiveness of fish breeding by enabling producers to continuously monitor water quality and temperature, which is critical because of global warming.

Another positive return-on-investment (ROI) feature enables installation of multiple sensors that were not used in legacy systems, and which improve pattern recognition and forecasting for farm operations. Altogether, system sensors measure dissolved oxygen, oxidation reduction potential (ORP), salinity, pH, turbidity, brightness, ammonia and chlorophyll.

The sensors, which have SDI-12 or analog interfaces, are supported by industrial-grade Kerlink [Wirnet® iStation gateways](#), which meet standard requirements of public and private network operators, private businesses and public authorities, and a LoRa controller from [Tekbox](#), a manufacturer of equipment for environmental monitoring, agricultural-yield applications and test equipment for niche applications. Sensors are provided by [Aqualabo](#), which designs, manufactures and markets a wide range of water analysis and testing devices and instruments, and [Eureka](#), a global leader in the design and manufacture of multiparameter water quality probes. Customers develop their own cloud software to support the system, because the required data varies significantly depending on the species – fish, shellfish or invertebrate marine animals (echinoderm) – being raised in each farm.

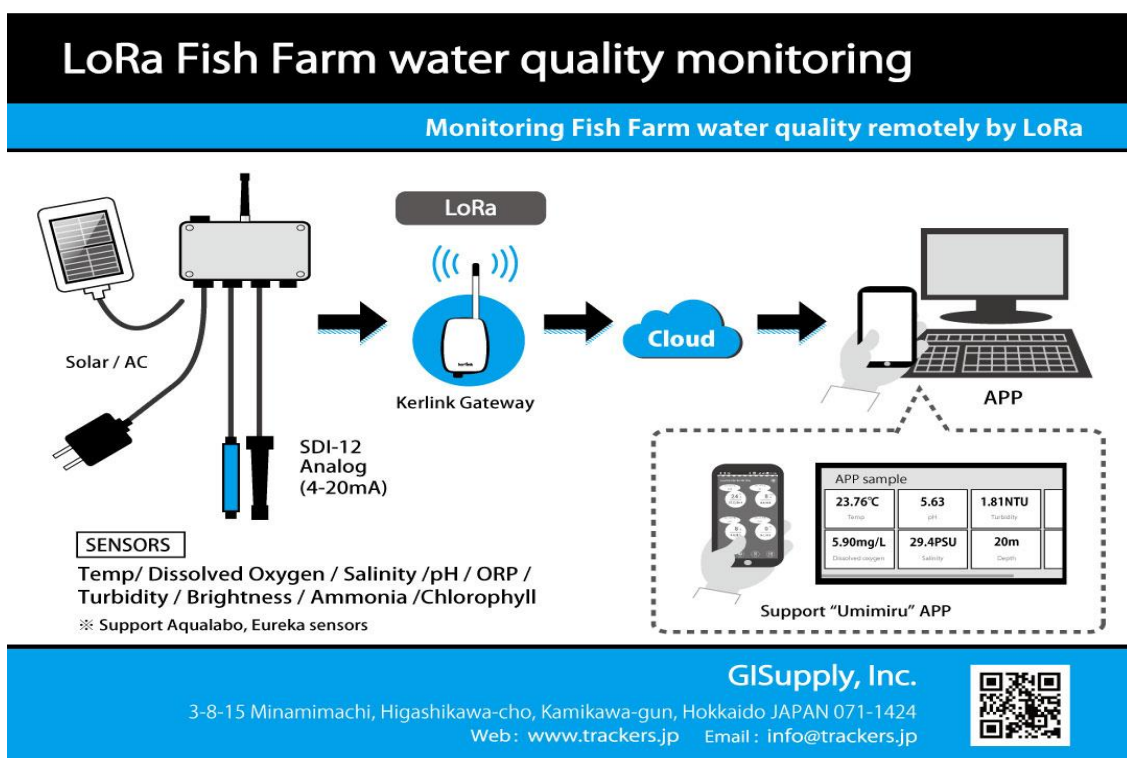
"The Japanese and global smart-aquaculture markets embrace sustainable practices and expect new technologies, such as the IoT, to operate 24/7 regardless of what Mother Nature has to offer, even winter blizzards," said Satoshi Kitaoka, president of GiSupply. "The reliability of our system has been proven in both land-based and open-ocean aquaculture farms, providing farmers with continuous readings of their conditions – and more confidence that they can meet their production and financial goals."

In addition to aquaculture, GISupply has used Kerlink [LoRaWAN®](#) gateways in Japan for several years in solutions for vertical markets such as agriculture – cattle monitoring – and the construction industry – heatstroke-monitoring systems for employees. Those solutions consist of end-node, gateways, network server and cloud APP.

“Our customers always name Kerlink first as a reliable hub to connect end nodes and cloud APP for their value-added markets,” Satoshi Kitaoka said.

“As a trusted distributor of innovative applications that help Japanese companies in large verticals benefit from the data-gathering and analysis solutions afforded by the IoT, GISupply has been a valued partner for Kerlink,” said Kilian Halopeau, vice president of Kerlink Japan K.K. “The company’s familiarity with Kerlink’s suite of products and services is a key part of the success of our partnership.”

Kerlink and GISupply [announced their partnership](#) to offer a package of applications for different verticals in 2020.



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## About Kerlink®

Kerlink® Group is a leading global provider of end-to-end connectivity solutions for designing, deploying, and operating public & private low power/wide area (LPWA) Internet of Things (IoT) networks. Its comprehensive product portfolio includes industrial-grade network equipment, best-of-breed network core, operations and management software, value-added applications and expert professional services, backed by strong R&D capabilities. More than 200,000 Kerlink® installations have been rolled out with over 350 clients in 70 countries, in all the key verticals. Kerlink® is a co-founder and board member of the LoRa Alliance® and the uCIFI Alliance™. It is listed on Euronext Growth Paris under the symbol ALKLK.

For more information, visit [www.kerlink.com](http://www.kerlink.com)

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## About GISupply

Founded in 2003 in Hokkaido, Northern part of Japan, GISupply develops and provides IoT solutions to agriculture, fisheries, general constructions markets. We deploy Kerlink® gateways especially to customers who needs vertically deep IoT knowledges to their specific markets. [www.trackers.jp](http://www.trackers.jp)



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## Upcoming events

**2022 Full Year Revenue: 24 January 2023, after market close**

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