SF SYSTEM, developer of equipment for LoRaWAN® networks, completed the moves its manufacturing facilities to Madeira

Moving to new production facilities provides the company's customers with even higher product quality and even more convenient delivery worldwide.

SF SYSTEM is completed the moving its production assets to a new location: LoRaWAN® equipment will now be designed and manufactured in Zona Franca Industrial da Madeira, Republic of Portugal. The permit to work in the industrial zone of Madeira confirms that SF System complies with all EU regulations for the conduct of production, and the company's products meet the highest standards of production processes.

The transfer of production to Madeira brings logistical benefits to the company's customers: convenient transport links, affordable air and ship transportation allow you to organize the delivery of products in the fastest and most optimal way for you.

One of the key developments of the SF SYSTEM is the SQ OUT N 800 HOTSPOT.

About Product

SQ OUT N 800 HOTSPOT is a modern high-tech device for building a wireless network of the Internet of Things and crypto miner hotspot. It is a combination of Helium® Blockchain and LoRaWAN® packet routing software in one compact LoRaWAN® compatible gateway. This allows customers to participate in the deployment of Helium® coverage easily and use open wireless IoT networks based on LoRaWAN®, as well as earn HNT cryptocurrency for providing coverage and transmitted data from devices.

SQ OUT N 800 HOTSPOT is a high-performance and versatile solution **equipped with a powerful high gain antenna** (5 dbi) that provides a coverage area of up to 20 km.

The built-in GNSS module supporting GPS, Beidou, Glonass, QZSS, etc., guarantees high (up to 5 m) geolocation accuracy and a highly sensitive receiver allows you to pick up even the weakest signal from the most distant sensors.
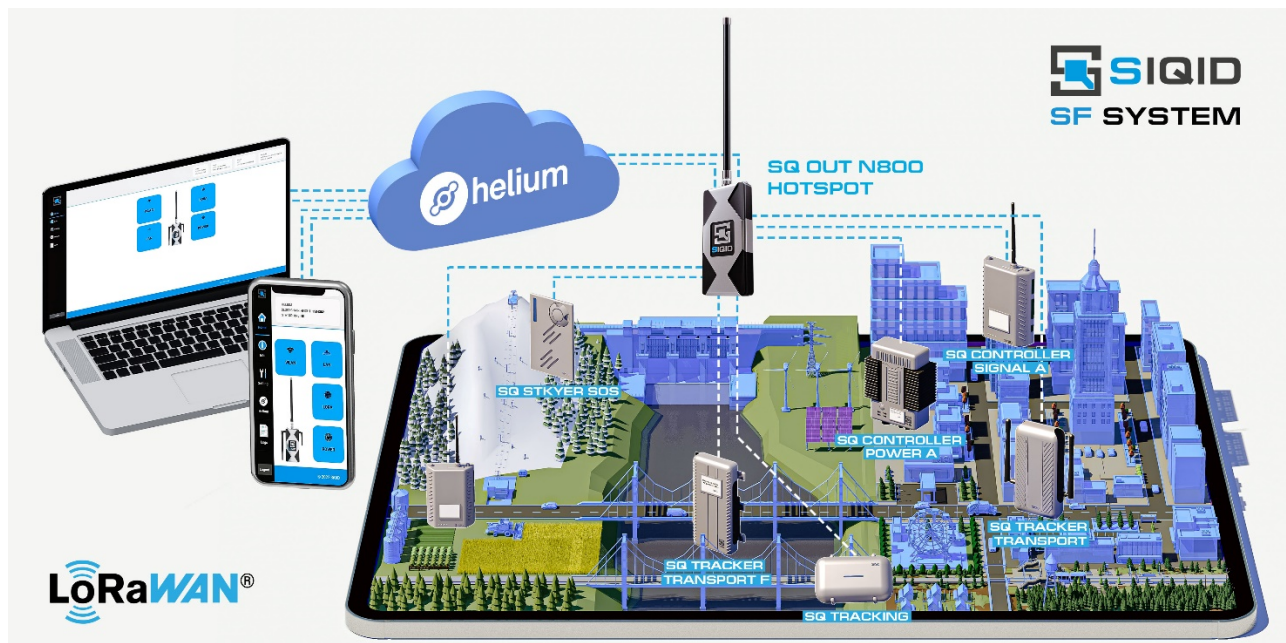
Using hardware encryption tools - crypto chip and blockchain - enables you to achieve a high level of protection of transmitted data from substitution, hacking or theft. By transmitting data through cloud services, the hotspot can connect to four different "clouds" at once.

The LoRaWAN® hub based on Semtech SX1303 with LBT allows you to scan the channels of the LoRaWAN® network (including for occupancy) beforehand, before receiving or transmitting data - this way, even more efficient operation of the LoRaWAN® network and the Helium® blockchain is achieved.

Thoughtful form factor, compact size and rugged aluminium housing with IP67 dust and water resistance make SQ OUT N 800 HOTSPOT the best option for outdoor use: it is easy to install it anywhere, while it is not afraid of temperature changes and continues to work efficiently under any weather conditions, be it snow, rain or scorching sun. Due to its extremely low energy consumption, once installed, the hotspot can operate for years without requiring maintenance.

The hotspot is managed through a cloud service. Whether it's one SQ OUT N 800 HOTSPOT or thousands, with the SiQiD APP you can manage your fleet from anywhere, anytime. The cloud-based dashboard helps you identify areas for performance improvement such as CPU temperature, online/offline status, RAM usage, and more. And you can troubleshoot with SiQiD APP in real time and quickly restore your work with a simple app.

In the case of a **corporate user creating coverage for their own projects**, such a user also benefits from this solution, since the SQ OUT N 800 HOTSPOT comes with the necessary functions to manage agricultural farms, renewable power generation stations, extreme sports resorts, utilities and urban infrastructure, logistics centres, and also allows you always to be aware of where your loved ones are. By creating coverage from such access points for their business purposes, corporate users receive not only a workable, energy-efficient system for working with IoT, but also acquire additional financial benefits: due to the mining mechanism, there is a reduction in the cost of transmitted data and an accelerated return on investment in their own project, and thanks to the provision of the created coverage for data transfer by other devices, the mining of the HNT cryptocurrency is increasing.

Read more about this and other devices developed by SF SYSTEM for working in the LoRaWAN® network on the **SF SYSTEM website** .

About Company:

SF SYSTEM, LDA is a development company with 15 years of experience. The company is based in the Zona Franca Industrial da Madeira and operates worldwide, providing state-of-the-art technological solutions for a wide range of industries: helping farmers improve crop yields, building systems for smart cities, working in the energy sector, offering solutions for the recreational industry, and developing customized systems based on the capabilities of the Internet of Things.

![SIQID logo]

The company's main production facilities are located in Portugal: solutions are born here, all SF SYSTEM equipment is designed and manufactured, and software is developed.

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