



nestwave

Locating Things

PRESS RELEASE

Nestwave Announces Collaboration with Sequans to Deliver Accurate and Efficient GNSS Positioning for Low-Power IoT Tracking

Nestwave IP provides latest Sequans LTE-M/NB-IoT platform with low-power, low component count, small form factor geolocation

PARIS, FRANCE DEC 10th, 2021 – Nestwave, a global technology leader in low-power geolocation for the IoT, has announced that its technology has been selected by Sequans Communications S.A. (NYSE: SQNS), a leading global provider of 5G/4G cellular IoT connectivity solutions, to add GNSS positioning to the Sequans Monarch 2 LTE-M/NB-IoT platform.

Integrated into the Sequans Monarch 2 GM02SP module, the Nestwave GNSS solution offers Sequans' IoT customers accurate positioning with ultra-low power consumption while minimizing component count, cost and size by removing the need for an external positioning chipset. This makes the Sequans platform ideal for a wide variety of intermittent, power-limited tracking use cases including personal trackers, parcel and pallet location, fleet trackers as well as car, bike and scooter location and theft recovery. Cosmo Connected, a leader in urban mobility solutions, has already adopted the Monarch 2 GM02SP solution to reduce the cost and power consumption of its tracker products.

Nestwave's technology allows geolocation to be added to existing IoT chipsets by implementing a GNSS receiver using the chip's existing radio and computing capabilities. This eliminates the need for an external GNSS chipset and product redesign.

"Nestwave's technology provides the smallest, most power efficient, and lowest component count solutions for IoT geolocation," comments Nestwave CEO Ambroise Popper: "Our strategic partnership with Sequans addresses the challenge of integrating accurate geolocation into compact, often battery-powered, low-cost IoT nodes and allows Sequans customers to benefit from higher performing, lower cost tracking solutions."

Discussing the addition of low-power GNSS positioning to the Monarch 2 platform, Georges Karam, Sequans CEO states: "Leveraging Nestwave's innovative technology to provide low-power GNSS on Monarch 2 widens its capabilities and makes many types of IoT tracker use cases more affordable because there is no need for additional positioning chips or modules."

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Armin Batouméni, the CTO of Cosmo Connected, adds: “Accuracy, power, size and cost are fundamental aspects of tracker design. By deploying the Sequans Monarch 2 with Nestwave’s integrated GNSS technology we can address all of these issues to provide our customers with cost-effective, high-performance and future-proof tracking solutions.”

Nestwave IP has been integrated into a variety of chip architectures and on various state-of-the-art DSP/CPU cores. In combination with Nestwave cloud services, this IP enables a very short time-to-first-fix, which allows for much lower power consumption in tracking use cases, without compromising on sensitivity or accuracy. The company’s technology roadmap includes the addition of 5G/4G cellular-based hybrid location functionality and solutions that will improve the accuracy of indoor tracking.

About Nestwave

Nestwave enables the proliferation of IoT geolocation by providing the smallest, most power efficient, lowest component count solutions. The company’s combination of IP and cloud services eliminates the need for conventional GPS/GNSS chipsets and dramatically reduces power consumption. Because of this, Nestwave technologies minimize the bill of materials, extend the battery life and speed the time-to-market of accurate indoor and outdoor positioning and tracking applications. Nestwave IP can be incorporated into existing DSP cores and connectivity chips without re-design, while cloud-assisted implementation leverages the computation power of the cloud and keeps power consumption to a minimum.

The unprecedented power and BoM savings realized by Nestwave’s innovative technology significantly improve existing positioning and tracking applications. They also open the door to the integration of geolocation in applications where power and size limitations would previously have made this impossible. And by combining lower power consumption with the use of fewer components, Nestwave solutions contribute to environmental sustainability and reduced carbon footprints.

To learn more, please visit us at www.nestwave.com.

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