

PRESS RELEASE

Nanotron UWB module - the perfect fit for Exclusion Zone applications

***swarm* bee ER leads the race for rapid time to market**

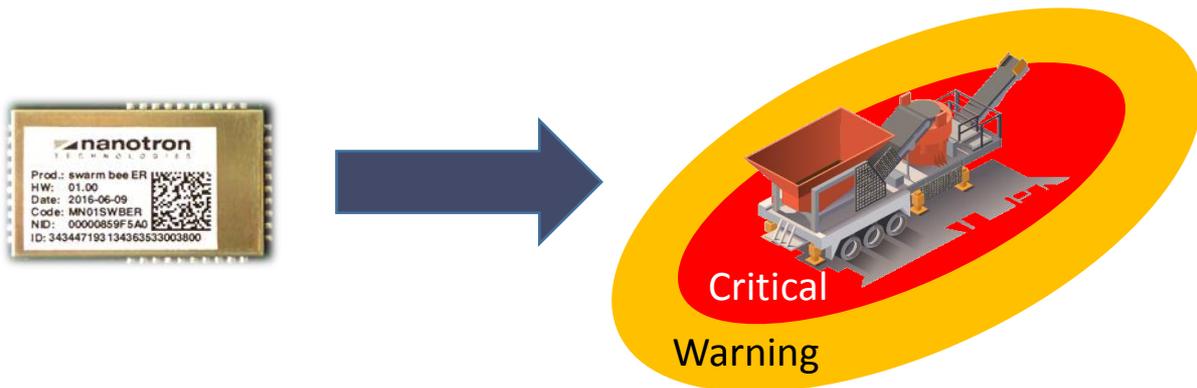
Berlin, June 21, 2016 – nanotron Technologies, the leader in easy-to-use solutions for location-awareness today revealed key applications for its new *swarm* bee ER location-aware radio module. The suffix 'ER' stands for 'Enhanced Resolution' since the new module boasts 10 cm accuracy delivered using ultra-wide band (UWB) technology.

“The new ER module provides a compelling addition to the existing *swarm* bee product family line-up. It's easy to use *swarm* API allows customers to very rapidly develop machine to personnel exclusion-zone applications since it supports specific requirements of this type of use-case scenarios.” commented Marcel Borwitzky, Senior Product Manager at nanotron. The UWB module and the associated development kit will help ALL Decawave customers cutting time-to-market for their end-products by at least 12 months. Exclusion-Zone applications protect people from dangerous machines. The ER module is deployed both on the machine and on personnel tags worn by pedestrians. High-accuracy (10 cm) at short distances allows for precise alarms to be easily triggered at different zone boundaries. “Low power consumption in combination very low latency and good scalability is the key ingredient for success in this space.” adds Borwitzky.

The new *swarm* bee ER module features the standard *swarm* API – the common high-level software interface – cutting development time and allowing customers to easily migrate existing applications from the *swarm* bee LE Chirp module to UWB and vice-versa depending on the use-case requirements. Chirp radio technology supports long-range applications of several hundred meters with precision requirements of 1 meter while UWB technology allows for 10 cm precision in closer proximity.

The new *swarm* bee ER development kit plus (DK+) – following standard tooling for *swarm* bee modules – provides a proven software and hardware platform for application development and comprises of several DK+ boards, *swarm* PC tools, and a comprehensive data package to facilitate easy and rapid development of location-aware applications. Customers benefit from *swarm* tools including a *node configuration device* (NCD) boosting productivity if large numbers of radio nodes require configuration as part of network set-up and maintenance. Additional development boards are purchased separately if customers want to evaluate or deploy larger location-aware networks.

Both the *swarm* bee ER UWB module and the *swarm* bee ER DK+ UWB development kit start shipping in volume now.



Caption: *swarm* bee ER used to trigger warning and critical exclusion zones – in this example with a crusher for Mine Safety implementation.

About the *swarm* product family

Swarm bee modules are available with Chirp or UWB radio technology. Both versions are sharing the common *swarm* API. The *swarm* product family targets the growing market for autonomous smart items and cuts time to market for location-aware products by 12 months. Very precise low-cost location technology can now be used without the need for RF-design capabilities or expertise on low level device drivers. Developers focus on application design.

About nanotron Technologies

Today nanotron's *embedded location platform* delivers location-awareness for safety and productivity solutions across industrial and consumer markets. The platform consists of chips, modules and software that enable precise real-time positioning and concurrent wireless communication. The ubiquitous proliferation of interoperable location platforms is creating the location-aware Internet of Things. More information on www.nanotron.com. Follow nanotron Technologies on [LinkedIn](#).

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