



EnOcean introduces batteryless wireless solutions to the Japanese market

Complete module range and development kits in 928 MHz for energy harvesting wireless communication; White label OEM product offering for a faster time-to-market

Oberhaching/Munich, April 15, 2014

EnOcean today announced the availability of a new line of energy harvesting wireless modules particularly suited for the Japanese market. The portfolio uses the license-free 928 MHz frequency band that offers robust performance and reliable wireless communication for batteryless applications in building, home or industrial automation as well as for health care appliances or structural health monitoring. Product manufacturers (OEMs) can choose from a complete range of 928 MHz switch and sensor modules, transceiver modules, development kits as well as white label finished products for a faster time-to-market.

EnOcean is the world leader in energy harvesting wireless solutions. The wireless modules gain their energy from motion, light or temperature differences by using energy harvesters. This allows wireless solutions that operate without batteries and are therefore maintenance-free for high reliability. The 928 MHz frequency series is the fourth in EnOcean's portfolio and strengthens the company's international market position as well as the worldwide spread of energy harvesting wireless solutions.

The 928 MHz band is in the sub 1 GHz frequency band which offers a robust performance, an effective radio range and a strong resistance to interference. The range of energy harvesting wireless 928 MHz sensors is about 300 metres in an open field and up to 30 metres inside buildings. In addition, it meets legal regulation and application-specific requirements of the Japanese region.

"In Japan, the market demand for energy harvesting wireless solutions is very high. Maintenance-free and flexible products perfectly meet several requirements of the Japanese economic and social development," says Kazuyoshi Itagaki, Sales Manager Japan, EnOcean GmbH. "The fields of application range from energy efficiency measures in buildings and industry to assistance systems for an aging society, more safety and comfort in homes or monitoring of precious resources. In all scenarios, batteryless solutions provide the necessary data and control intelligence."

White label finished OEM products

In addition to the new module series, EnOcean also offers a first base line of white label 928 MHz finished products. This supports OEM customers in bringing EnOcean-based product portfolios to the Japanese market quickly and cost-effectively. OEMs benefit from significantly shorter development timelines, reduced investment, and reduced distraction as they work to capitalise on quickly evolving market opportunities for energy harvesting wireless applications in Japan. Instead of developing the products on their own, manufacturers simply private label the needed products.

The white label offering consists of occupancy sensors, a window contact, and light switches based on EnOcean's energy harvesting wireless technology.

Product portfolio in 928 MHz

The new 928 MHz modules add to EnOcean's existing 868 MHz, 315 MHz and 902 MHz portfolio and exploit the benefits of the next ASIC Chip platform Dolphin V4. The portfolio includes a self-powered wireless switch module (PTM 210J), a transmitter module for unique switch applications (PTM 430J; combined with ECO 200), a self-powered wireless sensor module (STM 400J), a solar-powered magnet contact transmitter module (STM 429J), a solar-powered temperature sensor module (STM 431J) as well as a transceiver module for gateways (TCM 410J) and a USB gateway (USB 400J). The module series is complemented by the EnOcean ESK 400J starter kit, the EDK 400J developer kit and the software DolphinSuite V4 for simple configuration and flash programming of Dolphin V4 modules.

About EnOcean

EnOcean is the originator of patented energy harvesting wireless technology. Headquartered in Oberhaching, near Munich, the company manufactures and markets energy harvesting wireless modules for use in building and industrial applications as well as in further application fields such as smart home, smart metering, logistics or transport. EnOcean technology combines miniaturized energy converters with ultra-low-power electronics and robust RF communication. For 10 years, leading product manufacturers have chosen wireless modules from EnOcean to enable their system ideas. EnOcean is a promoter of the EnOcean Alliance, a consortium of companies from the world's building sector that has set itself the aim of creating innovative solutions for sustainable buildings. Self-powered wireless technology from EnOcean has been successfully deployed in more than 250,000 buildings worldwide. The EnOcean wireless protocol is standardized internationally as ISO/IEC 14543-3-10, which is optimized for wireless solutions with ultra-low power consumption and energy harvesting.

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