EnOcean self-powers 2.4 GHz radio with kinetic energy

Expands portfolio of energy harvesting solutions with batteryless wireless switch module in the worldwide opened 2.4 GHz band to meet consumer market requirements

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At Light+Building 2014, EnOcean presents the world's first energy harvesting wireless switch module communicating in the 2.4 GHz ISM band. The new module is ideally suited for consumer applications such as the control of LED lighting systems. It complements EnOcean's established batteryless portfolio in the sub 1 GHz frequency band, often selected in building automation and smart home applications. With this portfolio expansion, EnOcean cements its position as the leading worldwide enabler of energy harvesting wireless solutions.

Visitors of Light+Building (March 30–April 4, Frankfurt/Main) can learn more about EnOcean's batteryless wireless switch module portfolio at Booth G11 in Hall 4.0. For EnOcean, the development of the self-powered 2.4 GHz switch module signifies an entry-point for business acceleration in the consumer space.

The power of motion

The 2.4 GHz switch module has the same form factor as EnOcean's renowned PTM 210 module in the sub 1 GHz frequency band. Therefore, it fits in any standardized light switch. It is powered by EnOcean's miniature world patented ECO 200 electromechanical energy generator. Converting kinetic energy into electrical energy it works in the same way as a small but powerful dynamo, drawing out and delivering this power to a wireless module.

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Worldwide established technology

EnOcean sells its self-powered wireless solutions in 37 countries on four continents and has been adopted by more than 150 OEMs worldwide. The EnOcean radio standard ISO/IEC 14543-3-10 is very well established for batteryless wireless solutions in building automation based on a large ecosystem of products. EnOcean's self-powered wireless switch modules are already widely used in the building automation and smart home sectors. Here, they have proven that wireless link is a reliable alternative to traditional wiring in buildings. With its new 2.4 GHz (IEEE 802.15.4) switch module, EnOcean is targeting the specific requirements of worldwide consumer applications.

"EnOcean has achieved an undisputed success in the field of building automation. Now providing an energy harvesting wireless solution for consumer LED lighting, we continue our growth path and bring our unique technology to a new market. This will increase consumer awareness and demand for self-powered wireless solutions as an alternative to batteries," says Laurent Giai-Miniet, CEO, EnOcean GmbH.

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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