



## EnOcean adds 2.4 GHz BLE modules to its product portfolio

Technology provider EnOcean GmbH is expanding its product portfolio and will present its energy harvesting wireless module PTM 215B with NFC functionality for 2.4 GHz BLE systems launched in October 2016

Oberhaching (Germany), October 11, 2016

EnOcean, the world's leading developer of energy-harvesting wireless technology, today announced its first energy-harvesting wireless modules for 2.4 GHz BLE systems. The new modules complement the existing EnOcean wireless technology on the sub 1 GHz band and ZigBee wireless products on the 2.4 GHz frequency band.

The first product in the EnOcean 2.4 GHz BLE portfolio is the batteryless PTM 215B switch module, now comes with NFC functionality, thereby making it easier to train and configure the switch. The PTM 215B is based on the established form factor of the PTM 21x module, invented by EnOcean, and can be integrated into a large number of existing switch designs. The switch is also available as a white label end product. EnOcean thus enables product manufacturers to develop reliable and self-powered solutions on the 2.4 GHz frequency band for use in smart homes and modern light control all over the world.

With the new 2.4 GHz BLE module, the EnOcean technology can now also be integrated into 2.4 GHz Bluetooth systems. Like the existing ZigBee portfolio, the BLE-based products are also designed for the 2.4 GHz frequency band. The company is thus responding to the latest market trends in lighting applications, since BLE-enabled solutions are gaining in importance. EnOcean GmbH now provides the right switches for BLE-based lighting systems.

For example, manufacturers of BLE-based systems for the 2.4 GHz band can therefore incorporate the energy harvesting technology from EnOcean into their portfolios and develop

batteryless, room-based wireless controllers. Thanks to the standardized PTM 21x form factor, switch manufacturers can easily integrate the new 2.4 GHz module into their existing product ranges and use maintenance-free BLE systems that produce energy from motion.

"By adding a BLE-based wireless module to our portfolio, we have taken another important step toward fully networking devices in the Internet of Things (IoT)," explains Wald Siskens, CEO of EnOcean. "As the leading supplier of energy harvesting wireless technology, EnOcean enables self-powered IoT applications to be developed for use in building automation, smart homes, LED light control and industrial applications."

The first member of the 2.4 GHz BLE product family from EnOcean: a radio-based switch module with NFC functionality

The radio-based PTM 215B switch module operates on the 2.4 GHz band and is mechanically compatible with the form factor of the PTM 21x standard module (sub 1 GHz). Switch manufacturers can, therefore, easily migrate to a wide range of switch designs. Now that NFC functionality has been integrated for the first time, the switch can be trained through direct contact with NFC-capable devices without any manual actuation. A large number of parameters can also be configured easily and automatically to permit, for example, protocol data to be modified or additional information to be transmitted, such as group assignments. New devices can thus be quickly and easily integrated into existing systems, substantially reducing their susceptibility to faults.

In addition to the radio-based switch module, the 2.4 GHz BLE portfolio from EnOcean also includes white label end products: energy harvesting wireless single-rocker (ESRP) and dual rocker (EDRP) switches for the American market.

Solar-based sensor modules will be added to the switch module in 2017, for example, a door and window sensor, a temperature/moisture sensor and a light sensor.

## The battery-free Internet of Things

EnOcean uses the energy harvesting principle, in which energy is obtained from the surroundings, to supply self-powered wireless sensor networks. As a special feature, the technology includes miniaturized energy converters that convert motion, light or temperature into electrical energy. Together with an efficient energy management system, the energy harvesting technology

facilitates communication between maintenance-free IoT devices based on a variety of wireless standards, such as EnOcean, ZigBee and BLE. The maintenance-free wireless sensor solutions from EnOcean thus increase flexibility and energy efficiency in smart buildings, while also saving time and money.

## About EnOcean

EnOcean GmbH is the developer of the patented energy harvesting wireless technology marketed under the Dolphin brand. Headquartered in Oberhaching, near Munich, the company produces and markets maintenance-free wireless sensor solutions for batteryless applications in the Internet of Things, which are used for building and industrial automation, smart homes and LED light control. The EnOcean products are based on miniaturized energy converters, energy-efficient electronics and reliable wireless technology for a variety of standards. Leading product manufacturers have been relying on EnOcean wireless modules for their system solutions for the past 15 years and have installed the products in several hundreds of thousands of buildings around the world.

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