

**We:** **EnOcean GmbH**  
**Kolpingring 18a**  
**D 82041 Oberhaching**  
**Germany**

**Inform:** **that the following components (radio modules)**  
  
**PTM 535BZ**  
  
**which are designed for integration into final OEM products, are pre-assessed according to the technical requirements of the standards and directives detailed below.**

**Directives:** **Radio Equipment Directive, RED 2014/53/EU**  
  
**Restriction of Hazardous Substances in Electrical and Electronic Equipment Directive (RoHS) 2011/65/EU, (Annex 2015/863/EU)**

**Standards used:** **EN 301489-1:V2.2.3, EN 301489-17:V3.2.4**  
Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment; Part 1: Common technical requirements  
Part 17: Specific conditions for Broadband Data Transmission Systems  
**EN 61000-4-2:2009, EN 61000-4-3:2006+A1:2008+A2:2010**  
Electromagnetic compatibility (EMC)  
Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test  
Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test  
**EN 300328:V2.2.2**  
Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques  
**EN 62479:2010**  
Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)  
**EN 62368-1:2014+A11:2017**  
Audio/Video, information and communication technology equipment Part 1: Safety requirements

**Mandatory requirements for integration**

The EnOcean radio modules, specified above, are components which are delivered to OEM manufacturers for their use (integration) in final or combined products.

**It is the responsibility of the OEM manufacturer to demonstrate compliance of the end-product with all applicable EU directives and standards. The EnOcean list of assessed directives and standards serves as input to the declaration of conformity for the final product.**

EnOcean provides specific test reports upon request, for the before mentioned components based on a reference implementation. The OEM manufacturer is responsible for the approval of the end-product and can use the test reports provided by EnOcean where applicable. Details and conditions are described in the product-specific user manuals.

**Additional hints:**

At the time of writing following documents guidance have been published:  
Blue Guide:

[https://ec.europa.eu/growth/content/%E2%80%98blue-guide%E2%80%99-implementation-eu-product-rules-0\\_en](https://ec.europa.eu/growth/content/%E2%80%98blue-guide%E2%80%99-implementation-eu-product-rules-0_en)

RED Guide:

<http://ec.europa.eu/docsroom/documents/23321>

OEM manufacturers have at least to fulfill the following requirements:

- Integration of EnOcean modules have to follow technical specification and reference designs of the respective module
- Product safety, e.g. EN62368 has to be demonstrated by the end-product of the OEM manufacturer
- Provide product branding clearly identifying company name or brand and product name as well as type, charge or serial number for market surveillance
- Include documentation containing full postal address of the manufacturer as well as radio frequency band and maximum transmitting power
- Include a user manual, safety information and a declaration of conformity for the final product in local language
- Provide product development and test documentation upon request

If OEM manufacturers need further assistance, we recommend to contact an accredited test house for detailed guidance.

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Dr. Peter Klein  
Chief Financial Officer

