

## Transmitter Module PTM 535 / PTM 535J

**PTM 535 and PTM 535J transmitter modules enable the realization of energy harvesting wireless switches for EnOcean systems.**

**PTM 535 implements the 868 variant of the EnOcean radio standard while PTM 535J implements the 928 MHz variant. Both are primarily intended for operation in conjunction with the EnOcean ECO 200 energy harvesters.**



ECO 200 can be either mechanically connected using two contact pairs or wired to the electrical interface of PTM 535 / 535J.

Upon detection of an energy pulse from the ECO 200 harvester, PTM 535 / 535J will determine the following items:

- Polarity of the energy pulse
- Status of on-board meander contacts
- Status of input signals

The status of these items will be reported as EnOcean radio telegram. Both secure and non-secure transmission is supported.

PTM 535 / 535J contain the placement option for a learn button (LRN) to send dedicated commissioning telegrams and to change the security mode.

The security mode and the telegram content can be selected using four configuration interface signals located at the same positions as on PTM 335.

PTM 535 / 535J are mechanically and functionally compatible with the existing PTM 330 and PTM 335 modules.

TYPE	ORDERING CODE
<b>PTM 535</b>	<b>S3001-A535</b>
<b>PTM 535J</b>	<b>S3061-A535</b>

### Features Overview

<b>Antenna</b>	External 50 Ohm whip antenna
<b>Radio Frequency / Standard</b>	PTM 535: 868.30 MHz / EnOcean Radio Protocol 1 PTM 535J: 928.35 MHz / EnOcean Radio Protocol 2
<b>Bit Rate</b>	125 kbps
<b>Commissioning</b>	Learn Button (placement option on-board)
<b>Security</b>	AES128 authentication with Sequence Code
<b>Transmit Power (at antenna base, at 25°C)</b>	PTM 535: +5 dBm PTM 535J: +0 dBm
<b>Power Supply</b>	ECO 200 Kinetic Energy Harvester
<b>Harvester Interface</b>	2 pairs of contacts
<b>External Interface</b>	16 pins (solderable)
<b>Module Dimensions</b>	26.2 +- 0.3 mm x 21.15 +-0.3 mm
<b>Operating Temperature</b>	-25°C ... 65°C
<b>Radio Certification</b>	PTM 535: RED (Europe) PTM 535J: ARIB (Japan)