

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
PTM 535	S3001-A535
PTM 535J	S3061-A535

Features Overview

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