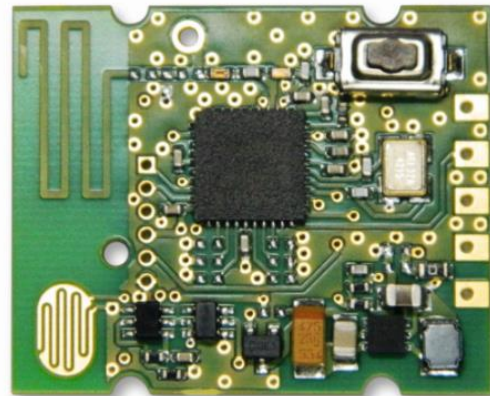


## 2.4 GHz IEEE 802.15.4 Miniswitch Transmitter PTM 535Z

**PTM 535Z enables the realization of energy harvesting wireless switches for EnOcean systems communicating based on the 2.4 GHz IEEE 802.15.4 radio standard.**

**PTM 535Z is primarily intended for operation in conjunction with the EnOcean ECO 200 or ECO 250 energy harvesters.**



ECO 200 or ECO 250 can be either mechanically connected using two contact pairs or wired to the electrical interface of PTM 535Z.

Upon detection of an energy pulse from the ECO 200 or ECO 250 harvester, PTM 535Z will determine the following items:

- Polarity of the energy pulse
- Status of on-board meander contact
- Status of input signals IN1 and IN2

The status of these items will be reported as 2.4 GHz IEEE 802.15.4 radio telegram. Both secure and non-secure transmission is supported.

PTM 535Z contains a learn button (LRN) to send dedicated commissioning telegrams and to change the radio channel.

Radio channel and security mode can also be selected using the hardware configuration interface.

PTM 535Z provides a five pad electrical interface with the following signals:

- Wired connection to ECO 200 / ECO 250 (AC1 and AC2)
- Two external input signals (IN1 and IN2)
- Ground (GND)

PTM 535Z is mechanically compatible with the outline of existing PTM 33x modules.

TYPE  
**PTM 535Z**

ORDERING CODE  
**S3071-A535**

### Features overview

<b>Antenna</b>	Integrated PCB antenna External 50 Ohm whip antenna (optional)
<b>Radio Standard / Bit Rate</b>	2.4 GHz IEEE 802.15.4 / 250 kbps
<b>Supported Radio Channels</b>	IEEE 802.15.4 Radio Channel 11 ... 26 (Default: Radio Channel 11)
<b>Radio Channel Selection</b>	Configurable via configuration interface User-selectable (Commissioning)
<b>Commissioning</b>	Learn Button (on-board)
<b>Security</b>	AES128 authentication with Sequence Code
<b>Transmit Power (typ, at 25°C)</b>	+2 dBm
<b>Power Supply</b>	ECO 200 or ECO 250 Kinetic Energy Harvester
<b>Harvester Interface</b>	2 pairs of contacts
<b>External Interface</b>	5 pins (solderable)
<b>Configuration Interface</b>	6 zero Ohm resistor footprints (on-board)
<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>	RED (Europe) / FCC (US) / IC (Canada) / ARIB (Japan)