

PTM 535U TRANSMITTER MODULE

Transmitter Module PTM 535U

PTM 535U transmitter module enables the realization of energy harvesting wireless switches or push buttons for EnOcean systems.

PTM 535U is designed to be supplied by EnOcean ECO 200 energy harvester.

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

Upon detection of an energy pulse from the ECO 200 harvester, PTM 535U will read the status of the following signals:

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

The status of these signals will be reported as EnOcean radio telegram. PTM 535U supports both standard and high security communication.

PTM 535U contains a placement option for a learn button (LRN) to send secure teach-in telegrams and to change the communication mode.



The security mode and the telegram content can be selected using six configuration interface signals.

PTM 535U is mechanically and functionally compatible with previous PTM 330U modules.

Order Information

TYPE

PTM 535U

ORDERING CODE

S3051-A535

Features Overview

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| Antenna | 50 Ohm whip antenna |
| Radio Frequency | 902.875 MHz MHz |
| Modulation | FSK |
| Bit Rate | 125 kbps |
| Transmit Power (at antenna base / radiated) | +4 dBm / <12500 uV/m |
| Commissioning | Learn Button (placement option on-board) |
| Security | AES128 encryption and authentication |
| Power Supply | ECO 200 Kinetic Energy Harvester |
| Harvester Interface | 2 pairs of contacts |
| External Interface | 16 pins (solderable) |
| On-board Interface | 2 meander contacts |
| Module Dimensions | 26.2 +- 0.3 mm x 21.15 +-0.3 mm |
| Operating Temperature | -25°C ... 65°C |
| Radio Certification | FCC (US) / ISED (Canada) |