

PTM 535Z (DB) Transmitter module for Zigbee Green Power

PTM 535Z (DB) enables in conjunction with the EnOcean ECO 200 harvester the realization of energy harvesting wireless switches communicating based on the Zigbee Green Power standard.

Key applications are button switches and position contacts for Zigbee systems powered by kinetic energy.

PTM 535Z (DB) is a fully self-contained transmitter integrating a Zigbee radio together with an on-board antenna and all power management functionality required for self-supplied operation in conjunction with the ECO 200 harvester.

PTM 535Z (DB) provides direct mechanical connection to the ECO 200 harvester by means of 2 contact pads on the PCB. Additionally, PTM 535Z (DB) provides a 5-pin solderable interface for the connection of the ECO 200 harvester together with 2 additional input signals.



PTM 535Z transmits the status of the input signals and the action (press or release) of the connected ECO 200 kinetic energy harvester using the ON / OFF Switch model defined by the Zigbee Green Power standard.

PTM 535Z (DB) contains an LRN button that can be used for commissioning tasks.

Order Information

Type	Frequency	Order Code
PTM 535Z (DB)	2.4 GHz Zigbee	S3071-A535:DB

Features overview

Radio Standards	2.4 GHz Zigbee Green Power
Zigbee Radio Channels	Default: Zigbee Channel 11 Selectable via LRN button: Zigbee Channel 11 ... 26
Data Encoding	Zigbee Green Power ON / OFF Switch Model (Device ID 0x02)
Security	AES128 (CBC) authentication with sequence counter
Transmission Power	+4 dBm
Transmission Range (typ.)	30 m line of sight / 10 m indoor environment
Antenna	Integrated antenna
Power Supply	Kinetic harvester (ECO 200)
User Interface	Learn button
Operating Conditions	-25°C ... +65°C / 0 ... 90 % r.h. Indoor use in dry rooms only
Dimensions	26.2 mm x 21.15 mm (same as PTM 535)