

Transmitter Module PTM 330 / PTM 330C

The radio transmitter module PTM 330 from EnOcean enables the implementation of wireless sensors and switches without batteries.

Key applications are handheld remote controls or industrial switches.



Functional Principle

When an energy pulse is supplied (e.g. by ECO 200 from EnOcean) an RF telegram is transmitted including a unique 32-bit module ID, the polarity of the energy pulse, and the operating status of 4 digital inputs. The RPS telegram content can be configured if other content is needed.

PTM 330 can be connected to ECO 200 via a contact spring. There are two meander structures on the PCB which allow usage of a rubber pad to set the level of two digital inputs. Alternatively PTM 330 can be mounted as an SMD component onto a host PCB. In this case energy supply pins and digital input pins are accessible via contact pads.

There are two frequency variants – PTM 330 in 868 MHz and PTM 330C in 315 MHz.

Type

PTM330
PTM332
PTM330C
PTM332C

Ordering Code

S3001-A330
S3001-A332
S3031-A330
S3031-A332

There are two packaging variants for PTM330:

- PTM 332/332C: Tape & reel for SMD mounting (no pre-installed antenna)
- PTM 330/330C: Card board box (pre-installed whip antenna)

Features overview

Power supply	ECO200 or equivalent energy pulse
Antenna	pre-installed whip antenna PTM330/330C external 50Ohm or whip antenna PTM332/332C
Frequency	868.3 MHz (PTM33x) / 315.0 MHz (PTM33xC)
Transmission power	typ. 2dBm at antenna base
Data rate / Modulation type	125 kbps / ASK
Telegram type	RPS of type 2 (allows interpretation of operating two buttons simultaneously)
Digital inputs	4
Transmission range	up to 200m free field, up to 30m indoor
Module dimensions	26.2 x 21.15 x 3.5 mm
Operating temperature	-25 up to +65 °C