mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Pushbutton Transmitter Module PTM 210 / PTM 210U / PTM 215

The radio transmitter module from EnOcean enables the implementation of wireless remote controls without batteries. Power is provided by a built-in electro-dynamic power generator.

Key applications are wall-mounted flat rocker switches with 1 or 2 rockers (with medial position), as well as handheld remote controls with up to 4 single pushbuttons

Functional Principle

A common electro-dynamic energy transducer is actuated by a bow, which can be pushed from outside the module on the left or right by an appropriate pushbutton or switch rocker. When the energy bow is pushed down, electrical energy is created and a RF telegram is transmitted including a 32-bit module ID. Releasing the energy bow generates different telegram data, so every PTM telegram contains the information that the bow was pressed or released. In addition, the radio telegram transmits the operating status of 4 contact nipples when activating the bow. This enables the identification of up to 2 appropriate switch rockers or up to 4 single pushbuttons.



"Long" or "Short" pushbutton operation (the time between pushing and releasing the push button) can be easily detected by the receiver. By doing that, applications such as dimming control or jalousie control including slat action are simple to implement.

PTM 215 contains additional encryption mode. Telegrams are encrypted via a combination of rolling code and AES128 algorithm.

Туре	Ordering Code
PTM 210	S3001-A210 (868 MHz)
PTM 210U	S3051-A210 (902 MHz)
PTM 215	S3001-A215 (868 MHz)

Features overview

Power supply	power generation by rocker operating Electro-dynamic Power Generator
Antenna	integrated PCB antenna
Frequency	868.300 MHz (PTM 210 / PTM 215) 902.875 MHz (PTM 210U)
Data rate	125 kbps
Channels 2 with 4 action	on states each (upper/lower pushbutton is pressed/released)
EnOcean Equipment Profile supporter	d EEP F6-02-xx, F6-04-xx (PTM 210/215 normal mode) rolling code with AES128 (PTM 215 secure mode)
Transmission range	300 m free field, typ. 30 m indoor
Energy bow travel/Operating force	1.8 mm / typ. 8 N (at room temperature)
Number of operations at 25°C typ. 1	00.000 actuations tested according to EN 60669 / VDE 0632
Module dimensions (inclusive rotation axis and energy bow) 40.0 x 40.0 x 11	
Operating temperature	- 25 up to + 65 °C

Radio signals are event controlled (pushbutton is pressed / is released) with button code and unique module identification (fix 32 bit ID).