



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!



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Pushbutton Transmitter Module PTM 200

The radio transmitter module PTM 200 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 pushbutton) 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.

The PTM 200 module serves the 868 MHz air interface protocol of EnOcean. Together with the receiver modules RCM 110 or RCM 120, this module can be easily integrated in operation and control units for the implementation of different application-specific system solutions.

Type
PTM200

Ordering Code
S3001-A200

Features overview

Power supply	power generation by rocker operating (Electrodynamic Power Generator)
Antenna	integrated
Frequency / Transmission power	868.3 MHz / max. 10 mW EIRP
Data rate / Channel bandwidth / Modulation type	120 kbps / 280 kHz / ASK
Channels	2 with 4 action states each (upper/lower pushbutton is pressed/released)
Telegram type	RPS of type 2 (allows interpretation of operating two buttons simultaneously)
Transmission range	300m free field, typ. 30m indoor
Energy bow travel/ Operating force	1.8 mm / approx. 7 N (at room temperature)
Number of operations	typ. 50.000 actuations tested according to EN 60669 / VDE 0632
Module dimensions (inclusive rotation axis and energy bow)	40.0 x 40.0 x 11.2 mm
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). This product is CE certified and conforms to the R&TTE EU-Directive on radio equipment. The EnOcean 868 MHz technology is also FCC/IC approved for usage in the USA and in Canada.