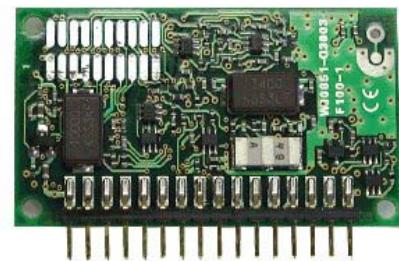


EnOcean Repeater Module TCM 110

The repeater module TCM 110 of EnOcean enables the realization of highly efficient RF repeaters for EnOcean radio systems.

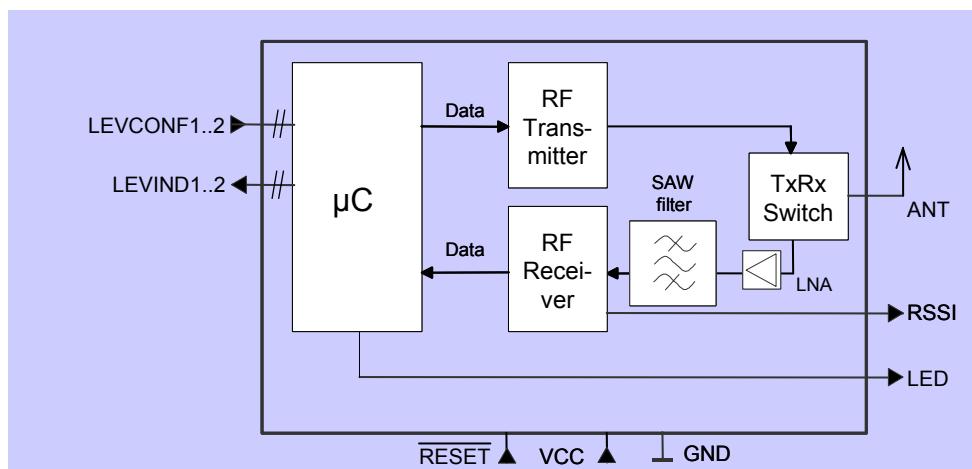
A typical application is the easy to install local optimisation of system radio coverage to ensure good radio reception behind shadowing objects or in recesses behind room corners for example.



The TCM 110 module serves the 868 MHz air interface protocol of EnOcean. It receives all signals of the EnOcean radio transmitters and sends refreshed signals to any EnOcean radio receiver. TCM110 is configurable for 1- or 2-level repeating. Its default configuration is 1-level repeater.

Technical Data

Frequency / Modulation type / Transmission power: 868.3 MHz / ASK / max. 10 mW
Data rate (transmitter) / Channel bandwidth (receiver): 120 kbps / 280 kHz
Transmission range: 300 m free field
Signal Repeater functionality: configurable for 1- or 2- level repeating, default 1-level repeating
Power Supply Voltage: 5V +10%/-5%
Power Supply Operation Current (receive / transmit): typ. 33 mA (receive only), max 55 mA
Transmitting indication output (LED): 20 mA max., approx. 3x1 ms within 50 ms
Level configuration / indication: 2 digital inputs, 2 digital outputs
Antenna: No antenna installed, 9 cm whip antenna or external 50Ω antenna mountable
Dimensions of PCB: 24.0 x 42.0 x 5 mm (without wiring pins)
Connector: 16 pins, grid 2.0 mm (4.0 mm in length, □ 0.5 mm)
Operating Temperature: -25 up to +65 °C
Storage Temperature: -40 up to +85 °C, +85 up to +100 °C for 1h max.
Humidity: 0 % to 95 % r.h.



This product is CE certified and conforms to the R&TTE EU-Directive on radio equipment. The EnOcean 868 MHz radio technology can be approved for operating in the USA and in Canada.