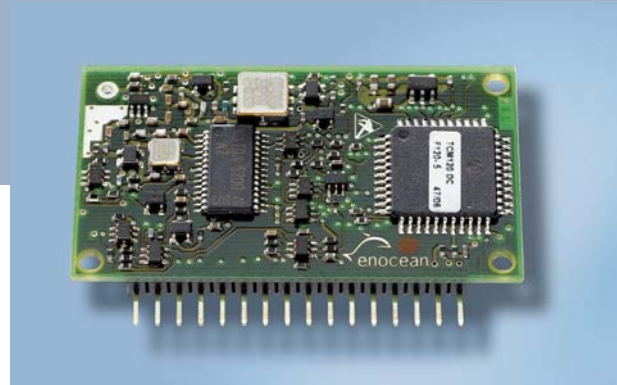


EnOcean Repeater Module TCM 110

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 optimization 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.



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.

Type
TCM110

Ordering Code
S3003-K110

Features overview

Antenna	No antenna installed, 9 cm whip antenna or external 50Ω antenna mountable
Frequency / Transmission power	868.3 MHz / max. 10 mW
Data rate / Channel bandwidth / Modulation type	120 kbps / 280 kHz / ASK
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
Transmission range	300m free field
Level configuration / indication	2 digital inputs, 2 digital outputs
Connector	16 pins, grid 2.0 mm (4.0 mm in length, □0.5 mm)
Dimensions of PCB (without wiring pins)	24.0 x 42.0 x 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.

