

TCM 515Z EnOcean Transceiver

Operational Description

The EnOcean 2.5GHz IEEE 802.15.4 Transceiver TCM 515Z is a standalone RF module with integrated processing unit to provide a host controller a standardized serial interface (EnOcean Serial Protocol 3, ESP3) as IEEE 802.15.4 gateway application.

Every frame receiver via the IEEE 802.15.4 air interface is forwarded to the ESP3 interface. Every frame received via the ESP3 interface is transmitted to the IEEE802.15.4 air interface.

An internal timer monitors the TX duty cycle of the air interface and delays messages accordingly until the internal TX buffer are filled and to not exceed 30% in a 100ms time frame. If the internal TX buffer cannot take any more frames an error is reported back via the ESP3 interface to the host controller

The operating frequency is band from 2405 MHz to 2480MHz.

For further details, please refer to the user manual.