

Wireless Transceiver Gateway

TCM 515J



The TCM 515J product family enables the realization of transceiver gateways, actuators and controllers for systems communicating based on the EnOcean radio standard.

Compared to the previous generation products, TCM 515J provides reduced power consumption, smaller size and higher processor performance.

TCM 515 provides integrated security processing functionality without the need for external components for communication with up to 25 external devices.

TCM 515J receives radio telegrams based on an external antenna connected via the host PCB. It can filter, decrypt and authenticate these telegrams before forwarding them to an externally connected host processor or host PC.

TCM 515J communicates with the external host processor or host PC via a serial interface (UART) operating according to EnOcean ESP3 standard. This serial interface provides the option to use higher interface speeds (TURBO mode) to reduce latencies.

TYPE
TCM 515J

ORDERING CODE
S3063-K515

Features overview

Antenna	50 Ohm antenna (connected via host PCB)
Radio Frequency	928.350 MHz
Modulation	FSK
Data Rate	125 kbps
Transmission Power	0 dBm
Receiver Sensitivity (typ, at 25°C) (See Note 1)	-95 dBm
Supply Voltage	2.0V ... 3.6V
Supply Current (at 2.0V)	25 mA
Serial Host Interface	UART according to ESP3 Standard (with TURBO option)
Module Dimensions	19.0 mm x 14.7 mm x 3.0 mm (all +/- 0.3 mm)
Operating Temperature	-40°C ... +85°C

Note 1: Sensitivity and Maximum Input Power figures are based on 0.1% telegram error rate for the combination of 3 received sub-telegrams