



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

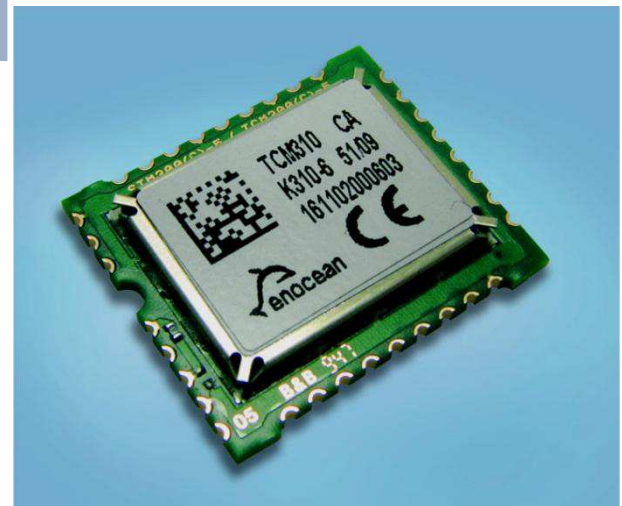


Transceiver Gateway Module TCM 310 / TCM 310U

TCM 310 enables the realization of gateways for the EnOcean 868 and 902 MHz radio systems. It provides a bi-directional radio interface at one end and a bi-directional serial interface at the other end. Radio messages are sent transparently through the serial interface in both directions from and to an externally connected host processor or host PC. In addition control commands can be sent from the host, e.g. to configure the repeater functionality or to manage the Smart Ack functions. TCM 310 can act as postmaster for up to 15 bi-directional sensors using Smart Ack technology.

Feature

- Smart Ack controller functionality
- Transparent radio channel
- Programmable repeater functionality (1 / 2 Level)
- EnOcean Serial Protocol V3 (ESP3)



Product variants

- TCM 310: SMD transceiver module 868MHz
- TCM310U: SMD transceiver module 902MHz

Type

TCM 310
TCM 310U

Ordering Code

S3003-K310
S3053-K310

Features overview

Antenna	External whip or 50Ω antenna mountable
Frequency	TCM 310: 868.300MHz TCM 310U: 902.875MHz
Data rate	125 kbps
Modulation type	TCM 310: ASK 868 MHz ¹⁾ TCM 310U: FSK 902MHz
Receiver Sensitivity (at 25°C)²⁾	TCM 310: typ. -96 dBm (868MHz) TCM 310U: typ. -98 dBm (902MHz)
Conducted Output Power	TCM 310: typ. 3 dBm (868MHz) TCM 310U: typ. 1 dBm (902MHz)
Power Supply	2.6...4.5V
Serial Interface	UART (ESP3)
Current Consumption	Receive mode: 33 mA Transmit mode: 24 mA
Dimensions of PCB	22x19x3 mm
Operating temperature	-25° to +85°C
Radio Regulations	TCM 310: R&TTE / EN 300 220 TCM 310U: IC/FCC / CFR-47 Part 15

1) According to ISO/IEC 14543-3-10

2) 0.1% telegram error rate (based on the combination of 3 received sub-telegrams)