

USB Gateway
 USB 500T - PRELIMINARY

USB 500T is a small USB stick which connects gateways and smart home servers to the world of EnOcean based radio products.

The USB stick is equipped with the TCM transceiver gateway module. The USB stick receives and sends all EnOcean radio telegrams according to the specified EnOcean Equipment Profiles (EEP). Radio telegrams are converted to a serial interface (EnOcean Serial Protocol 3) and transferred via USB interface.

Features:

- Full ESP3 feature set
- Power, Rx and Tx LED
- Optimized PCB antenna
- Integrated security handling
- Virtual COM Port driver (FTDI)



USB 500T is designed and produced as white label OEM product. Labels and housing can be changed to specific requirements of OEM manufacturers (original distributors).

TYPE
USB 500T

ORDERING CODE
S3044-K500

Features overview

Frequency/antenna	USB 500T: 921.4 MHz / PCB antenna
Data rate	125 kBit/s
Modulation type	USB 500T: FSK 921.4 MHz ¹⁾
Receiver Sensitivity (at 25°C) ²⁾	500T: typ. -98 dBm ²⁾
Receiver Category (RED, EN 300 220)	2 (standard performance)
Output Power	USB 500T: typ. 1 dBm (conducted)
Dimensions (incl. cap)	70 x 23 x 9 mm
OEM label size	39 x 12 mm
USB connector	Typ A
Operating temperature	-20°C to +50°C (max. 90% r.h.)

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

2) 0.1% telegram error rate (based on the combination of 3 received sub-telegrams).
 USB extension cable is recommended for best performance.