

USB 300, USB 400J and USB 500U are EnOcean radio transceivers which provide a bi-directional USB interface for connection to PC's, Wi-Fi access points and IoT gateways.

The USB stick is equipped with the TCM transceiver gateway module. The device 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 300/400J/500U is designed and produced as white label OEM product. Labels and housing can be changed to specific requirements of OEM manufacturers (original distributors).

FREQUENCY	ORDERING CODE	
Type	Tray (Bulk)	Single (Carton Box)
USB 300	S3004-K300	E3004-K300
USB 400J	S3064-K400	E3064-K400
USB 500U	S3054-K500	E3054-K500

Features overview

Frequency/antenna	USB 300: 868.300 MHz / PCB antenna USB 500U: 902.875 MHz / PCB antenna USB 400J: 928.350 MHz / PCB antenna
Data rate	125 kBit/s
Modulation type	USB 300: ASK 868 MHz ¹⁾ USB 500U: FSK 902 MHz ¹⁾ USB 400J: FSK 928 MHz ¹⁾
Receiver Sensitivity (at 25°C) ²⁾	USB 300: typ. -96 dBm ²⁾ USB 500U: typ. -98 dBm ²⁾ USB 400J: typ. -95 dBm ²⁾
Receiver Category (RED, EN 300 220)	2 (standard performance)
Output Power	USB 300: max. 6,7 dBm (radiated) USB 500U: typ. 1 dBm (conducted) USB 400J: typ. 0 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.)
Radio Regulations	USB 300: RED (EU) USB 500U: FCC (US) / ISED (CA) USB 400J: ARIB (Japan)

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.