

## USB Transceiver Gateway USB 500J

**USB 500J is a USB transceiver gateway enabling transmission and reception of EnOcean radio telegrams.**

**Common applications of USB 500J include radio gateways and building automation servers.**

USB 500J uses the TCM 515J EnOcean radio transceiver gateway module for radio communication with other EnOcean devices.

Radio telegrams are exchanged with an external host – such as a gateway via a serial interface over USB using EnOcean Serial Protocol v3 (ESP3).



USB 500J is delivered as Easyfit finished product.

### Key Features

- EnOcean radio interface
- ESP3 interface via USB Virtual COM Port
- LED for Power
- LED for RX / TX activity
- Integrated PCB antenna

TYPE  
**USB 500J**

ORDERING CODE  
**S3064-K500**

### Technical parameters (typical values)

<b>Frequency</b>	928.350 MHz
<b>Data rate</b>	125 kbit/s
<b>Modulation type</b>	FSK
<b>Radio standard</b>	ISO/IEC 14543-3-11 (ERP2)
<b>Antenna</b>	PCB antenna
<b>Receiver sensitivity (at 25°C)<sup>(1)</sup></b>	typ. -95 dBm <sup>(1)</sup>
<b>Tx output power</b>	typ. 0 dBm (conducted)
<b>Serial interface type</b>	Virtual COM Port over USB (FTDI)
<b>Serial interface bit rate</b>	57600 bps
<b>Serial interface protocol</b>	EnOcean Serial Protocol v3 (ESP3)
<b>USB connector type</b>	Typ A
<b>USB power supply current</b>	typ. 50 mA / max. 90 mA
<b>Housing dimensions (incl. cap)</b>	71 x 23 x 8.7 mm
<b>OEM label area dimensions</b>	34 x 12 mm
<b>Operating temperature</b>	-20°C to +50°C (max. 90% r.h.)
<b>Radio Regulations</b>	ARIB (Japan)

(1) Based on 0.1% telegram error rate for the combination of 3 received sub-telegrams.

Use of an USB extension cable is recommended for best performance.