



IntesisBox[®]

USB-ENO / C

v.1.1.0.0

Integration of any EnOcean device in your USB enabled EnOcean compatible Controller or PC Software

IntesisBox[®] USB-ENO / C gateways allow supervision and bidirectional control of any EnOcean device from PC systems such as SCADAs as well as any configuration and monitoring USB enabled systems.

1. Main Features:

- Bidirectional: Supervision and Control.
- Unlimited transmitters supported.
- Up to 128 actuators.
- ESP2 and ESP3 communication compatible.
- 1 & 2 level repeater functionality available.
- USB Powered. No external power supply needed.
- Plug and Play (virtual COM port).
- Suitable look for home applications.
- Small dimensions.

2. Typical application

In Figure 2.1 it is shown a typical integration example using the USB-ENO / C to control and/or supervise several EnOcean devices such as AC Interfaces, switches, Key cards, window contacts, movement sensors and many others.



Figure 2.1 Integration example

3. EnOcean Interface

EnOcean Interface	
References	<i>USB-ENO: Transceiver @ 868 MHz</i> <i>USB-ENO-C: Transceiver @ 315 MHz</i>
Devices supported	<ul style="list-style-type: none"> • 128 actuators • Unlimited transmitters
Repeater functionality	The gateway can work as a 1-Level or 2-Level Repeater. This behavior is both configurable manually or remotely through the USB port.

Table 3.1 General features

Coverage distance	Conditions
< 30 m	Under ideal conditions: Broad room, no obstacles and good antenna position.
< 20 m	The room is filled with furniture and people And penetration through up to 5 dry walls or up to 2 brick walls or up to 2 aero concrete walls
< 10 m	Identical to the previous case but the receiver is placed to a room corner or range along a narrow floor.
< 1 m	Metal-reinforced ceilings at upright penetration angle (in strong dependence of reinforcement density and antenna positions).

Table 3.2 Device coverage distance

4. USB Interface

- Communication using EnOcean Serial Protocol 2 (ESP2) or ESP3 (default). This behavior is both configurable manually or remotely through the USB port.
- The power from the USB port is used to power up the gateway so no external power supply is needed.
- Plug and Play. When the gateway is connected to the computer's USB port, a virtual COM port is generated and the gateway can be used right away without any configuration.

5. Technical specifications

Envelope	ABS (UL 94 HB). 2,5 mm thickness
Dimensions	71 x 71 x 27 mm
Weight	60g
Color	White
Power supply	USB powered. USB limitations apply
Serial communication	ESP2 and ESP3 (Configurable)
Mounting options	Desktop Wall
LED indicators (internal)	1 x USB connection error 1 x COMM (communication) LED 1 x CONF (configuration) LED
Configuration	Manual or Through USB
Operating Temperature	From -25°C to 85°C
Operating humidity	<93% HR, no condensation
Stock humidity	<93% HR, no condensation
RoHS conformity	Compliant with RoHS directive (2002/95/CE).
Certifications	USB-ENO: <ul style="list-style-type: none"> • CE USB-ENO-C: <ul style="list-style-type: none"> • FCC (ID: SZV-STM300C) • IC (ID: 5713A-STM300C)