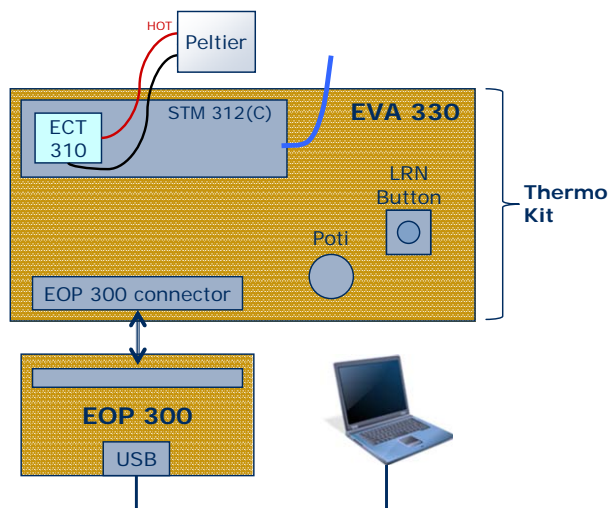Green.Smart.Wireless.
enocean®

Thermo Developer's Kit
EDK 312 and EDK 312C

This kit extends the basic developer kit EDK 300 for the thermo-powered radio modules of the all-in-one STM 310 product series.

As extension of the EDK 300 basic development kit the EDK 312 supports configuration and programming of the EnOcean STM 310 family.

EDK 312 contains the 868 MHz module STM 312, EDK 312C contains the 315 MHz module STM 312C. The extremely power saving RF transmitter module STM 312 enables the realization of a wide range of wireless and thermo-powered sensors such as temperature sensors, humidity sensors, or room operating panels and others.
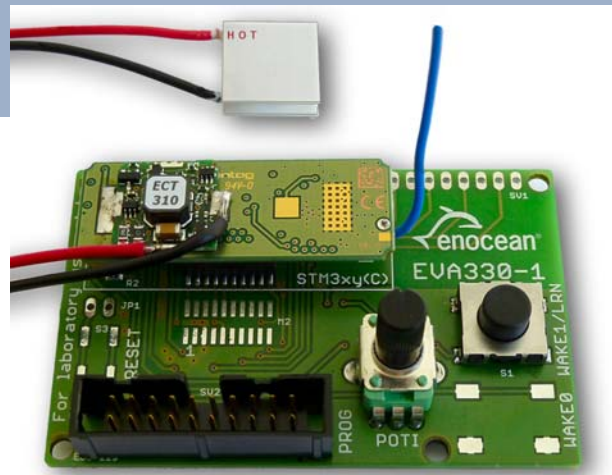
ECT 310 is a low-cost ultra-low-voltage DC/DC converter for powering battery-less EnOcean radio modules by thermal energy and is combined with the STM 312. Operation starts at typ. 20 mV relating to a 2 Kelvin temperature difference at a low-cost standard Peltier element.

Key features STM 312

- Compact radio module for powering by innovative thermo harvesting
- Onboard short-/long term capacitors with energy management
- Multiple I/O pins for external sensors
- 3 A/D converter inputs / 3 digital inputs
- Configuration and programming for customer specific applications

EDK 312 content (868 MHz)

- 1x STM 312 all-in-one module
- 1x EVA 330 programming board
- 1x ECT 310 ultra-low voltage DC/DC converter
- 1x Peltier element TEC2L-15-15-5.6
- 1x Leaflet for documentation download

EDK 312C content (315 MHz)

- 1x STM 312 all-in-one module
- 1x EVA 330 programming board
- 1x ECT 310 ultra-low voltage DC/DC converter
- 1x Peltier element TEC2L-15-15-5.6
- 1x Leaflet for documentation download

STM 310 come already with a pre-defined feature set for energy management, data acquisition, data processing and wireless data transmission. User specific applications can be implemented based on the Dolphin application programming interface (Dolphin API), delivered with EDK 300.

Type	Ordering Code	
EDK 312	S3004-X312	(868 MHz Kit)
EDK 312C	S3034-X312	(315 MHz Kit)
EDK 300	S3004-X300	(868 MHz Kit)
EDK 300C	S3034-X300	(315 MHz Kit)

Required from EDK 300 for module configuration or application programming:

- Hardware: EDK 300, EOP 300, TCM 3x0
- PC Software: DolphinView, DolphinStudio