

EnOcean Thermo Developer Kit EDK 352

EnOcean Thermo Developer Kit EDK 352 extends the EnOcean developer kit EDK 350. It includes the STM 312 energy harvesting wireless sensor module and the ultra-low-voltage DC/DC converter ECT 310 Perpetuum.

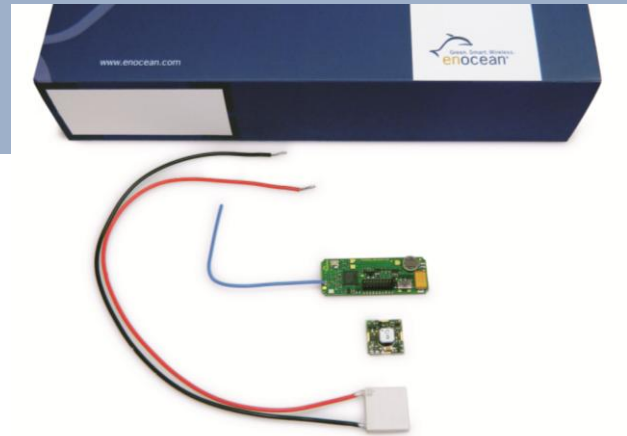
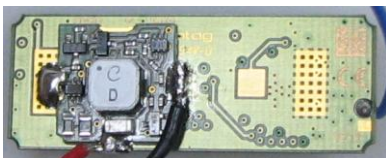
The extremely power saving RF transmitter module **STM 312** of EnOcean enables the realization of a wide range of wireless and maintenance-free sensors such as temperature sensors, humidity sensors, or room operating panels.

ECT 310 Perpetuum 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 typical 20 mV relating to a 1 - 2 Kelvin temperature difference at a standard low-cost Peltier element.

STM 312 has a pre-defined feature set for energy management, data acquisition, data processing and wireless data transmission.

User specific configurations (e.g. wake up timing) can easily be done via software tools (DolphinStudio).

User specific applications can be implemented based on the Dolphin application programming interface (DolphinAPI).



Key features

- Compact self powered radio module combined with innovative thermo harvesting
- Onboard short-/long term capacitor 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 352 content

- 1x STM 312
- 1x ECT 310 Perpetuum ultra-low-voltage DC/DC converter
- 1x Peltier element
- 1x User manual

Type

EDK 350
EPK 350
EDK 352

Ordering Code

S3004-X350 (868MHz)
S3004-F350 (868MHz)
S3004-X352 (868MHz)