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EnOcean Developer's Kit
EDK 300 / EDK 300C / EDK 300U

EDK 300x – the developer's kit for EnOcean Dolphin modules and your simple entry into bidirectional energy harvesting wireless technology. It offers both plug'n play features and the possibility to start complex hardware and software design for new products based on EnOcean's Dolphin platform.

The EDK 300x is available in three different frequency variations, depending on the region and application your development is targeting:

EDK 300:	**868 MHz**
EDK 300C:	**315 MHz**
EDK 300U:	**902 MHz**

The EDK 300 supports OEM development with:

- TCM 300, TCM 310 and TCM 320 for line powered applications
- STM 300 for self-powered applications

Various extension kits are available:

- EDK 310, EDK 310C and EDK 310U with STM 310x as a all in-one solution
  for solar powered applications
- EDK 312, EDK 312C and EDK 312U with STM 312x and ECT 310 for thermo powered applications

The EDK 300 supports line powered applications based on TCM 3x0x and self-powered applications based on STM 3xy modules including energy conversion and storage.

EnOcean modules come with a pre-configured feature set for energy management, data acquisition, data processing and wireless data transmission. User specific applications can be implemented based on the application programming interface (API) along with detailed Application notes and software examples.
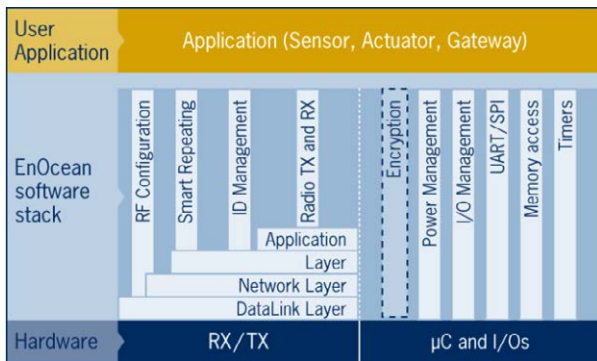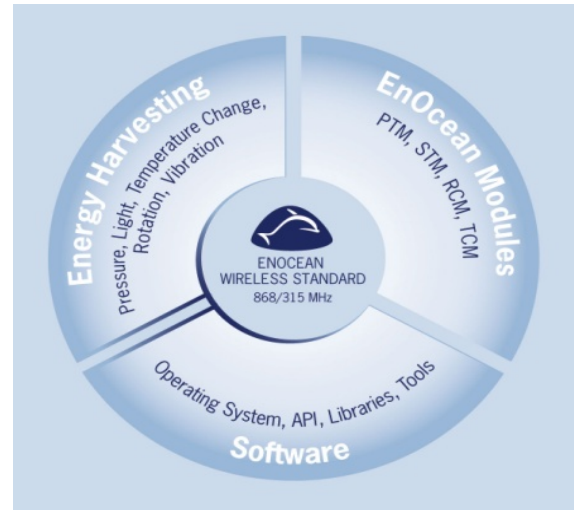
Key features TCM 3x0x evaluation board
- Supports ISO/IEC 14543-3-10:2012 for 868MHz and 315MHz modules
- Transceiver for line powered applications e.g. switching actuator, gateway and repeater
- Programmer interface for customer specific applications
- Two slots for TCM 300 and TCM 320 module
- Easy prototyping of customer specific HW with patch area, jumpers and pin connectors for all signals
- LEDs for I/O pins, PWM and RSSI
- Supports all operation modes of TCM 3x0

Key features STM 300x evaluation board
- Supports ISO/IEC 14543-3-10:2012 for 868MHz and 315MHz modules
- Designed for battery less concepts with multiple energy harvesters
- Onboard solar cell and energy management
- Additional plug-ins for external solar, thermo, push button, piezo and vibration harvesters
- Multiple energy storages: onboard short and long term capacitor (gold/supercap)
- Onboard temperature sensor, brightness sensor, potentiometer and energy storage voltage measurement circuit
- Signal LEDs for output signals
- Easy prototyping of customer specific HW with patch area, jumpers and pin connectors
- Default FW supports all STM 300 sensor features e.g. data acquisition and transmission

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Benefits for developers

- Plug and play development kit for the EnOcean Dolphin EO3000i platform
- Supports software and hardware development
- Comprehensive PC software for fast and easy development of self-powered sensors and actuators
- Competitive advantage over battery-powered wireless solutions
- Technical support via Email and Phone
- EnOcean is the wireless standard for sustainable buildings

DolphinAPI
Application programming interface to implement customer specific firmware based on the comprehensive Dolphin platform.
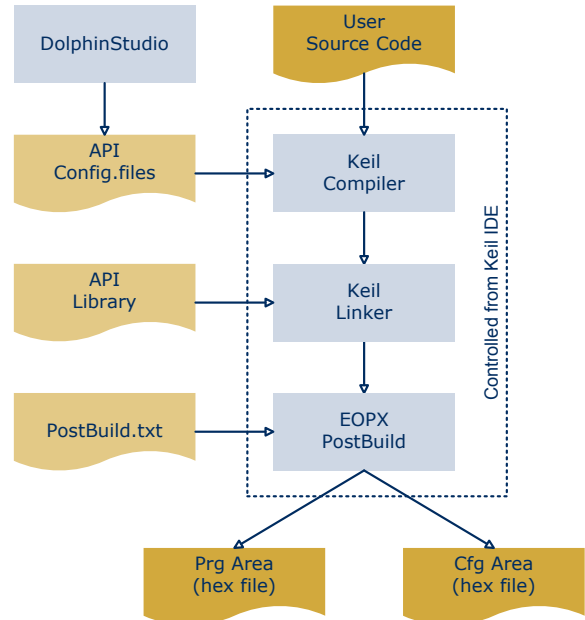
DolphinView
Mature tool to visualize EnOcean radio nodes, receive/send and analyze radio telegrams. Get detailed radio information like sub-telegram timing and signal strength. DolphinView supports advanced EnOcean features: remote management (ping, query and remote learn), Smart Ack, and security.

DolphinStudio
Powerful PC program for configuration (e.g. RF parameters and IO Pin configuration) and programming of Dolphin chip based modules.

Development process

EDK 300x content

- 1x EVA 300 (TCM 3x0x) evaluation board
- 1x EVA 320 (STM 300x) evaluation board
- 1x TCM 300x with adapter board
- 1x STM 300x with adapter board
- 1x TCM 320x
- 1x PTM 210x with test rocker
- 2x USB cable
- 2x EOP 300 programmer
- 1x Package leaflet with download links for documentation and software tools

Type	Ordering Code
EDK 300	S3004-X300
EDK 300C	S3034-X300
EDK 300U	S3054-X300
EOP 300	S3005-X310
EDK 310	S3004-X310
EDK 310C	S3034-X310
EDK 310U	S3054-X310
EDK 312	S3004-X312
EDK 312C	S3034-X312
EDK 312U	S3054-X312