

Dolphin Developers Kit EDK 300 and EDK 300C

EDK 300(C) is a comprehensive developer kit to implement innovative applications for the fast growing market of self-powered devices. 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 EO3000i platform.

EDK 300(C) supports development with following EnOcean modules

- TCM 300 (868MHz) or TCM 300 (315MHz)
- TCM 320 (868MHz) or TCM 320C (315MHz)
- STM 300 (868MHz) or STM 300C (315MHz)

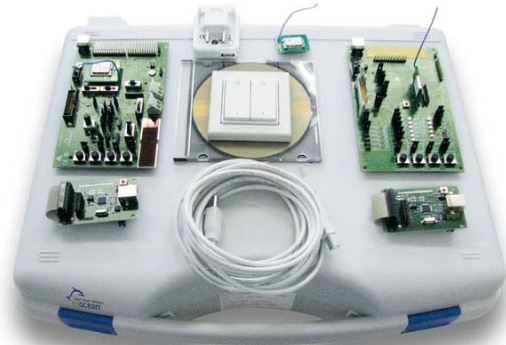
The distinguishing feature that sets Dolphin apart from other wireless system architectures is energy harvesting. This enables a broad variety of self-powered wireless sensor/actuator applications.

EDK 300 supports line powered applications based on TCM 3x0 and self-powered applications based on STM 3x0 modules including energy conversion and storage.

EnOcean modules 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 new application programming interface (API).

Key features TCM 3x0 evaluation board

- Supports all line powered applications e.g. switching actuator, gateway and repeater
- Programmer interface for customer specific applications
- Two slots for TCM 300 and TCM 320 modul
- Easy prototyping of customer specific HW with patch area, jumpers and pin connectors for all signals
- LEDs for I/O pins, PWM and signal strength indication
- Supports all operation modes of TCM 3x0
- Detailed Application notes and FW examples



Key features STM 300 evaluation board

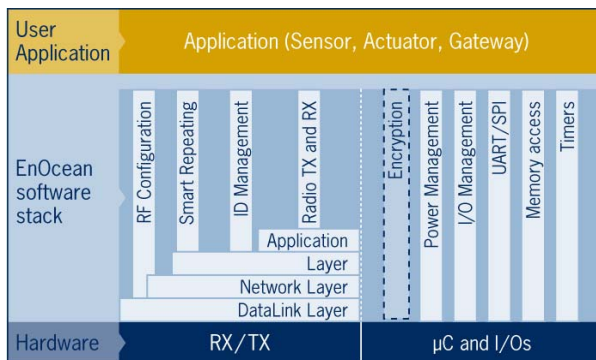
- Designed for battery less concepts with multiple energy harvesters
- Onboard solar cell and energy management
- Additional plug-ins for external solar, thermo, push button, piezo and vibration harvesters
- Multiple energy storages: onboard short-/long term capacitor, gold-/supercap
- Onboard temperature 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
- Programmer interface for customer specific applications
- Detailed Application notes and FW examples

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 Forum
- EnOcean is the wireless standard for sustainable buildings

Dolphin API

Application programming interface to implement customer specific firmware based on the comprehensive Dolphin platform.



WinEtel

Just connect evaluation board with the PC and you can send, receive and analyze all EnOcean radio telegrams with this PC program.

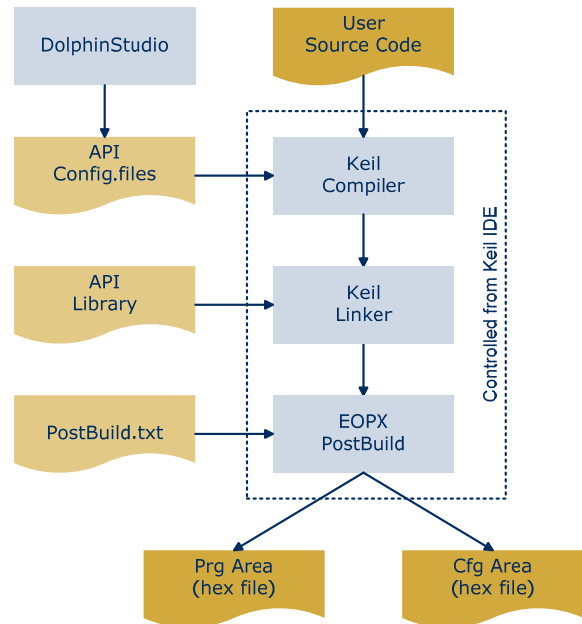
Dolphin Studio

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

Optional Keil PK51 EnOcean Edition

Keil PK51 optimized for the EnOcean Dolphin platform. Supports max 8k application size plus EnOcean API library.

Development process



EDK 300(C) content

- 1x EVA 300 (TCM 3x0) evaluation board
- 1x EVA 320 (STM3 00) evaluation board
- 1x TCM 300(C) with adapter board
- 1x STM 300(C) with adapter board
- 1x TCM 320(C)
- 1x Self-powered switch PTM 200(C)
- 2x USB cable
- 1x Power supply
- 2x EOP 300 Programmer
- 1x Software CD
- 1x Getting Started Manual

Type	Ordering Code
EDK 300	S3004-X300
EDK 300C	S3034-X300
EOP 300	S3005-X310
Keil PK51 EO	S3005-X300