

EnOcean Dolphin Modules

Ideal for new solutions! EnOcean's bidirectional Dolphin Modules STM 300, TCM 300 and TCM 320 mean new possibilities in automation.

The new EnOcean Dolphin modules [STM 300](#), [TCM 300](#) and [TCM 320](#) bring bidirectionally communicating wireless sensors and actuators to Dolphin system architecture, which can transmit information as well as receive it. [EDK 300](#) - the developer kit for EnOcean Dolphin modules - gives the designer a fast and full overview of the Dolphin platform. Your benefits when developing new energy harvesting wireless sensor solutions add up to: simple integration, faster time to market, plus interoperability with other EnOcean energy-harvesting wireless switches, sensors and controls.

Dolphin modules for individual applications

A major component of Dolphin system architecture is the bi-directional [STM 300](#), [TCM 300](#) and [TCM 320](#) wireless modules. These come in versions for a standard frequency of 868 MHz or 315 MHz, so they can work in applications worldwide.

The nucleus of the new modules is the large-scale-integrated EO30001 Dolphin chip. This features an energy converter interface and a complete RF transceiver for the wireless communication developed by EnOcean with its extremely short data telegrams.

STM 300 - ideal for bidirectional energy harvesting wireless sensors



STM 300

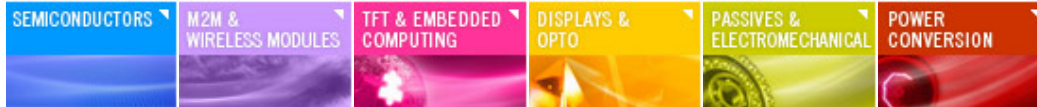
[STM 300](#) features an energy harvesting interface for the implementation of self-powered products. The minimal standby power consumption makes it especially suitable for energy harvesting wireless solutions such as bidirectional temperature sensors, sensors in building services and innovative actuators. STM 300 can be powered by a solar cell, available in two sizes - [ECS 300](#) and [ECS 310](#).

TCM 300/ TCM 320 - ideal for programmable system components



TCM 300/ TCM 320

[TCM 300](#) and [TCM 320](#) transceiver modules are the ideal building block for continuously powered components such as flush-mounted actuators or gateways. The modules command out-of-the-box switching, dimming, repeating and gateway functionalities. If basic configurations are inadequate, the easy-to-handle [DolphinAPI](#) development environment enables OEMs to create extra functionality for integration in their applications.



Broad integration base

Product manufacturers from diverse sectors can simply integrate the new modules in their product ranges. EnOcean technology enables speedy development and creation of new wireless solutions in building services, in industrial and numerous other applications. Standardized sensor profiles enable interoperability of the resulting products. Devices from different manufacturers can then communicate and cooperate with one another in one and the same system. The new platform remains backward-compatible with all earlier unidirectional, self-powered wireless switches, sensors and actuators in EnOcean technology.

Advantages at a glance

- Maintenance-free sensor solutions through energy harvesting
- EnOcean is the wireless standard in building automation
- Bidirectional communication – also with self-powered sensors
- Self-powered actuators (e. g. heating radiator valve control)
- Easy to integrate
- Faster time-to-market
- Interoperability of end-products
- Easy Programming of customer specific software

The fastest way into energy harvesting wireless sensor solutions



EDK 300

[EDK 300](#) gives the developers fast and full overview of the powerful Dolphin platform. In next to no time, companies are able to develop their own energy-autonomous applications for building automation and many other purposes – assuring themselves of a competitive lead. The developer's kit supports the bidirectional STM 300, TCM 300 and TCM 320 modules. In addition to innovative wireless modules the developer's kit includes an evaluation board for TCM modules and one for STM, a self-powered PTM 200 wireless switch, two EOP 300 programming adapters plus a software CD with [WinEtel](#), [DolphinStudio](#) and Keil uVision Trial.