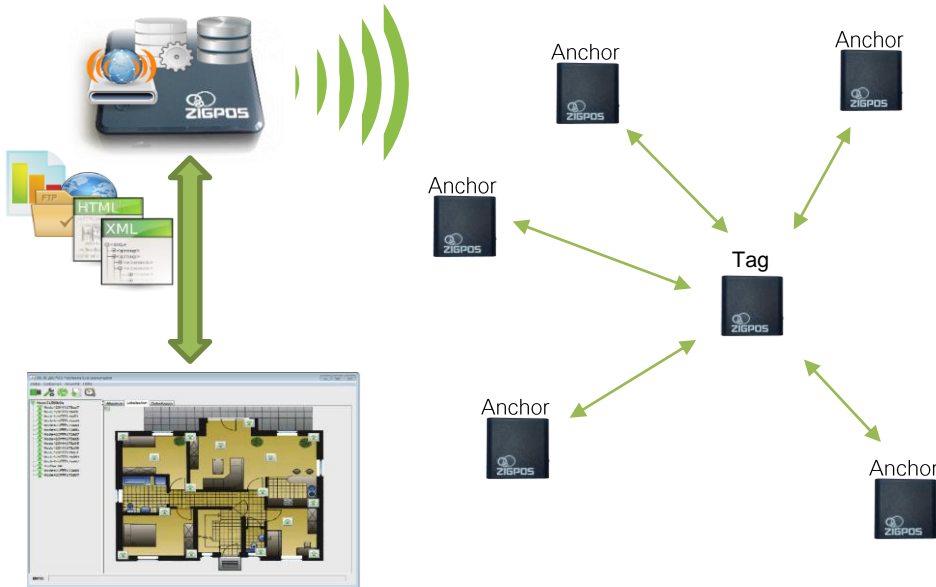


ZIGPOS eeRTLS Evaluation Kit v2.0



Application scenarios:

Real Time object and person tracking for:

- Home automation
- Industrial sensor/actuator networks
- Logistics and retail chain support
- Smart transportation
- Smart shopping
- Internet of Things (IoT)
- Industry 4.0

Seamless indoor/outdoor navigation with energy efficient Real Time Localization System (**eeRTLS**)

Evaluation Kit Parameters	
Hardware / Quantity	Based on ZP2.4srn4, quantity based on request
Ranging Technology	The Evaluation systems covers RSSI based localization and PMU (Phase Measurement Unit) based localization available with ATMEL's RTB Evaluation Kit
Lifecycle	Current consumption: active < 16mA / sleep < 2µA, frequency-based up to years, e.g.: - 1 Position /s [2.000mAh]: 0.5 years - 1 Position/ 5min [2.600mAh]: 7 years
Accuracy	up to 50cm, indoor & outdoor
Coverage	up to 300m LOS outdoor, up to 70m indoor
Communication	Communication based on IEEE802.15.4, energy efficient low rate 250kBit/s (up to 2MBit/s)



Easy-to-use ZIGPOS Evaluation Tool

With the recently developed wireless positioning technology you can add an important key feature to existing or planned wireless sensor and actuator networks (WSANs): the possibility to estimate the location of any of its members. The communication is based on the global standard IEEE 802.15.4, enabling interoperability with existing wireless solutions using the globally available 2.4 GHz ISM band.

We offer an evaluation kit for high accuracy indoor and outdoor real time positioning. The evaluation kit is based on Atmel's new ranging technology. Although it comes with small complexity, it provides accurate position information of any node within the wireless network. The energy efficient real time location system (eeRTLS) technology can be applied seamlessly in indoor, outdoor or mixed scenarios in a completely independent mode of operation. No satellite components are required. A quick start up and comprehensive evaluation of the new technology is ensured by the easy to use software package from ZIGPOS.



Easy-to-use ZIGPOS Evaluation Tool

The graphical user interface, developed by ZIGPOS, is a powerful software tool. It contains various positioning algorithms and tracking filters to evaluate the performance of the new technology in the different application fields. It provides comprehensive monitoring, control and commissioning capabilities to easily setup dedicated test-scenarios. Due to its intuitive graphical user interface no programming skills and no in-depth knowledge of IEEE 802.15.4 or radio ranging capabilities are required to evaluate the new technology in your custom application environment.

Using the new evaluation kit the development efforts are reduced to a minimum for the basic technology evaluation phase. Possible applications for the real-time object and person tracking are home automation, industrial sensor/actuator networks, logistics and retail chain support, smart transportation and internet of things.



Key Features

- Wireless real time location tracking system
- High accuracy
- Low power and low-cost IEEE 802.15.4 standard compatible radio technology
- Reliable and secure protocol stack
- Indoor and outdoor application scenarios
- Global applicable solution

Benefits

- competitive advantage by applying state-of-the-art technology solution
- single module for communication and accurate radio positioning
- key turn systems and integration support available
- minimum effort for technology evaluation
- short time to market due to evaluation kit

API

- websocket
- Restful API with JSON
- Database
- GUI (provided by ZIGPOS, JavaScript based webinterface, JAVA application)
- Customer specific interfaces on request

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