TRIMENSION OL23D0: FULLY CUSTOMIZABLE UWB CONTROLLER FOR INDUSTRIAL AND IoT

NXP's UWB technology precisely measures the propagation time of the signal between two UWB nodes for unprecedented localization accuracy of a few centimeters in harsh environments and in real-time. This enables secure and precise localization for a variety of applications.

OVERVIEW

UWB provides precise, secure, real-time localization capabilities. The technology is designed to give spatial awareness to UWB-enabled smart devices.

The Trimension OL23D0 allows customers to design flexible system solutions as well as standalone IoT applications due to its integrated flash memory and microcontroller. This enables highly optimized IoT solutions in terms of performance, energy consumption and system costs. Therefore, the Trimension OL23D0 can be used in a broad spectrum of IoT applications including tracking and navigation, industrial monitoring, gaming and smart home applications.

Trimension OL23D0 fully supports the IEEE 802.15.4z standards. Besides proprietary solutions, the OL23D0 allows the flexibility to execute multiple protocols compliant to main UWB industry standards such as Fine Ranging (FiRa) due to its open controller.

PRODUCT SPECIFICATIONS

- Flexible use among wide range of UWB applications
- Fully customizable due to on-chip flash memory
- Allows for customer specific protocol stacks
- SDK provided
- Standalone operation enabled by on-chip MCU
- Optimized for low power IoT devices
- Integrated security features
- IEEE 802.15.4z compatible
- Arm® Cortex®-based

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