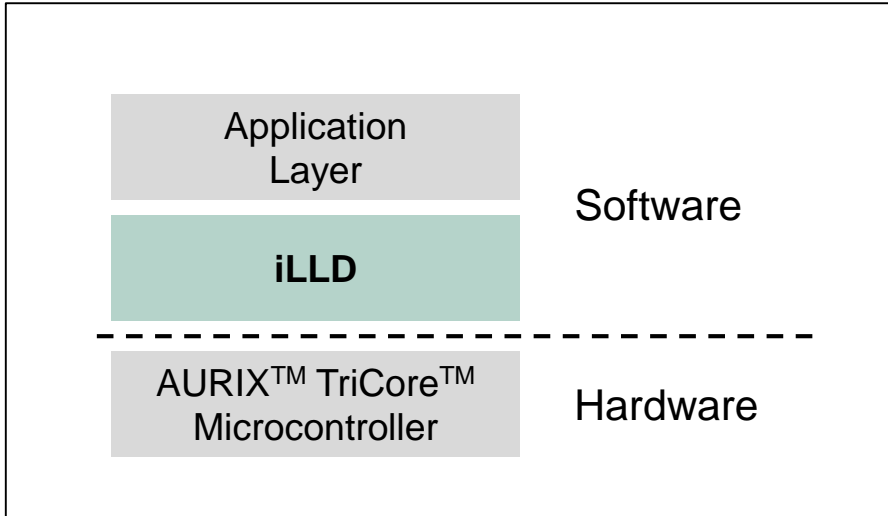


iLLD

Infineon Low Level Driver

AURIX™ Microcontroller Training
V1.0 2019-03





Highlights

- › The iLLD is a single open source software package offering driver functions for the AURIX™ family
- › Easy integration into development environment
- › Support for various compilers

Key Features

Demos included

Hardware abstraction

Customer Benefits

- › Reference code for various application scenarios
- › Enables easy microcontroller peripheral configuration, initialization and usage

iLLD

Demos included

- › Several code examples are included for reference:



MulticanBasicDemo



EthernetDemo



FlashDemo



I2cBasicDemo



DmaBasicDemo

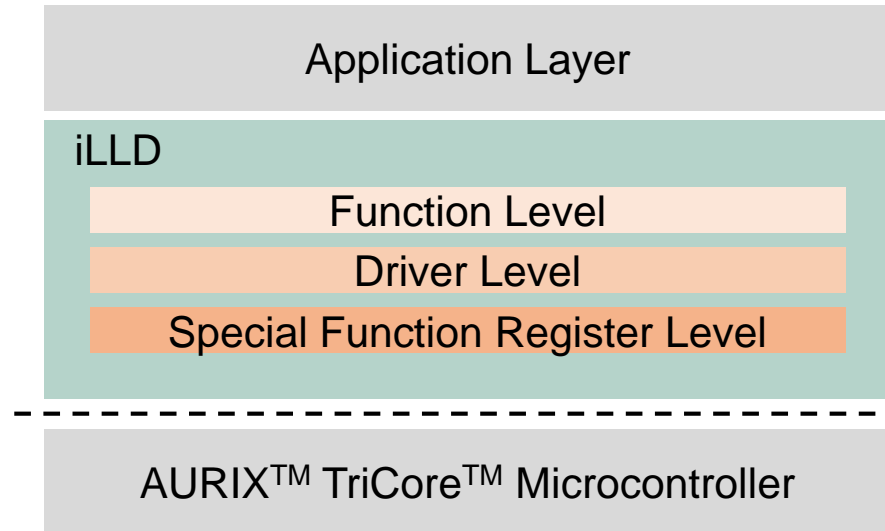
...

- › These enable
 - getting started quickly
 - creating a first successful running application quickly
 - easily following recommended initialization flows

iLLD

Hardware abstraction

- › The iLLD provides functions, drivers and structures that allow three levels of abstraction

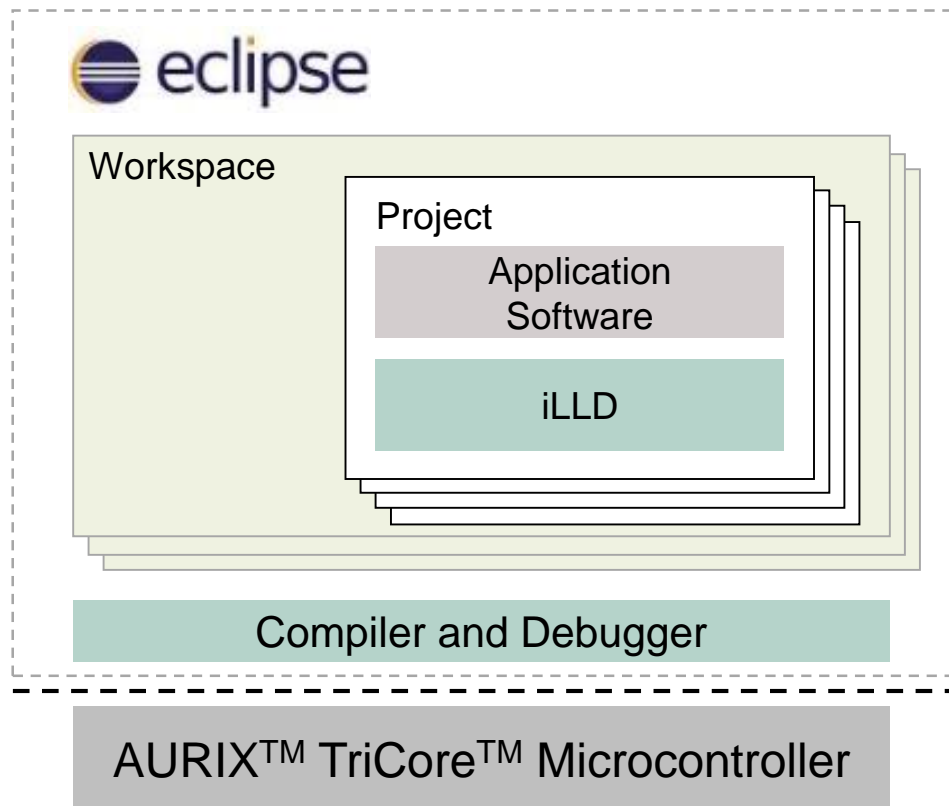


- › **Special Function Register Level:** Access register bitfields by name
- › **Driver Level:** Combines register configurations to be easily executed using function calls
- › **Function Level:** Initialization, configuration, start and stop of any AURIX™ peripheral

iLLD

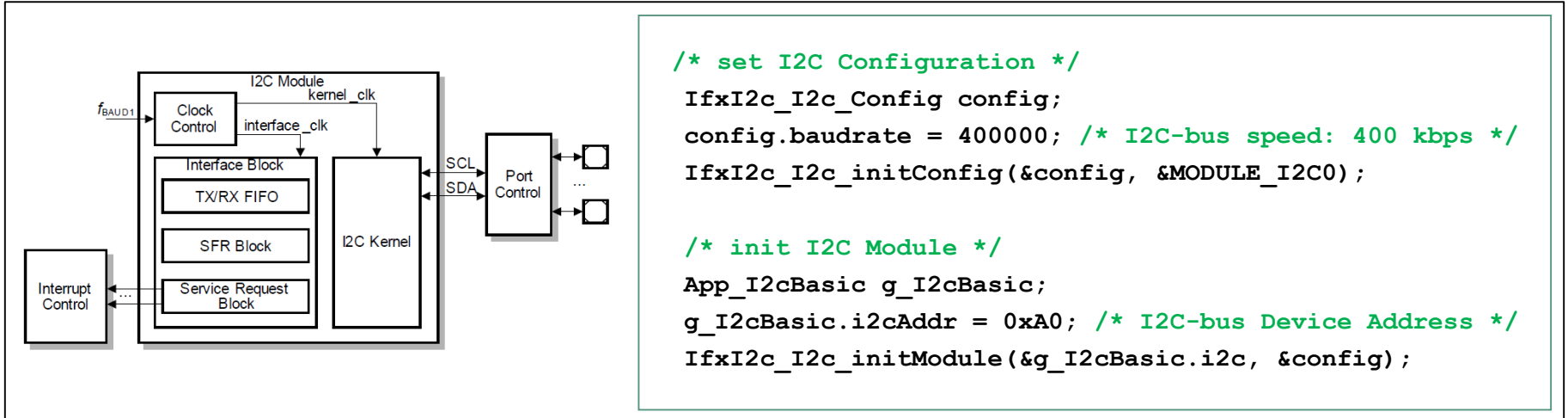
System integration

- › Seamless integration into development environment
- › Single folder containing the software driver stack



Application example

I2C initialization



Overview

- > Initialization of the I2C transceiver module

Advantages

- > Easy configuration by using existing configuration structure
- > Easy initialization using existing 'initModule' function

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Edition 2019-03

Published by

**Infineon Technologies AG
81726 Munich, Germany**

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Document reference

AURIX_Training_1_Low_Level_Driver

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