iLLD
Infineon Low Level Driver

Key Features

Demos included

Hardware abstraction

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

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
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

Compiler and Debugger
AURIX™ TriCore™ Microcontroller
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

/* set I2C Configuration */
IfxI2c_I2c_Config config;
config.baudrate = 400000; /* I2C-bus speed: 400 kbps */
IfxI2c_I2c_initConfig(&config, &MODULE_I2C0);

/* init I2C Module */
App_I2cBasic g_I2cBasic;
g_I2cBasic.i2cAddr = 0xA0; /* I2C-bus Device Address */
IfxI2c_I2c_initModule(&g_I2cBasic.i2c, &config);
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