



lib_board_support: XMOS board support (README)

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vendor

XMOS

version

1.3.0

scope

General Use

description

Support library for XMOS development kits

category

General Purpose

keywords

I2C, Ethernet, Audio

devices

xc0r0.ai, xc0r0-200

1 Summary

lib_board_support contains board specific hardware configuration code for various XMOS evaluation and development kits.

2 Features

► Support for the following boards:

- XK_EVK_XU316
- XK_AUDIO_316_MC
- XK_AUDIO_216_MC
- XK_EVK_XU216
- XK_ETH_XU316_DUAL_100M

- Simple examples to demonstrating usage from both XC and C.



3 Known issues

- ▶ XK_EVK_XU216 support is currently only for the GigE PHY. The required dependency lib_ethernet to support SMI has not been added to this repo to avoid unneeded dependencies in non-Ethernet applications and will be required by any Ethernet application for this board anyway.
- ▶ XK_ETH_XU316_DUAL_100M is currently an unreleased board and hence has no documentation.
- ▶ XK_ETH_XU316_DUAL_100M uses the TI DP83826 PHY. During testing we noticed that very occasionally (1% of the time) the first packet sent after initialisation may be dropped for certain link partners. Subsequent packets are always OK. This is consistent with a similar bug seen on the [TI forum](#). For most applications this is not an issue however for test cases it may be worth noting. Sending an initial dummy Tx packet works around this issue.

4 Development repo

- ▶ [lib_board_support](#)

5 Required tools

- ▶ XMOS XTC Tools: 15.3.1

6 Required libraries (dependencies)

- ▶ [lib_i2c](#)
- ▶ [lib_sw_pll](#)
- ▶ [lib_xassert](#)

7 Related application notes

The following application notes use this library:

- ▶ [AN02003: SPDIF/ADAT/I²S Receive to I²S Slave Bridge with ASRC](#)
- ▶ [AN02016: Integrating Audio Weaver \(AWE\) Core into USB Audio](#)

8 Support

This package is supported by XMOS Ltd. Issues can be raised against the software at: <http://www.xmos.com/support>



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