



# lib\_board\_support: XMOS board support (README)

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### vendor

XMOS

### version

1.2.2

### scope

General Use

### description

Support library for XMOS development kits

### category

General Purpose

### keywords

I2C

### devices

xccore.ai, xccore-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: 15.3.0

### 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/I<sup>2</sup>S Receive to I<sup>2</sup>S 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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