



lib_xud: USB device library (README)

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vendor	XMOS
version	3.0.1
scope	General Use
description	USB device library
category	General Purpose
keywords	USB, HID
devices	xcore.ai, xcore-200

1 Summary

The XMOS USB Device (XUD) library provides a low-level interface to USB. *lib_xud* is a software defined, industry-standard, USB library that allows you to control an USB bus via *xcore* ports.

The library provides functionality to act as a USB *device* only.

2 Features

- ▶ USB 2.0 Full-speed (12Mbps) and High-speed (480Mbps)
- ▶ Device mode
- ▶ Bulk, control, interrupt and isochronous endpoint types supported
- ▶ A complete worked example of a HID mouse

3 Known issues

- ▶ SOF tokens are not CRC checked on XS3 based devices (see tests/test_sof_badcrc) (#99)



4 Development repo

- ▶ [lib_xud](#)

5 Required tools

- ▶ XMOS XTC Tools: 15.3.1

6 Required libraries (dependencies)

- ▶ None

7 Related application notes

The following application notes use this library:

- ▶ [AN00124 - USB CDC Class as Virtual Serial Port](#)
- ▶ [AN00125 - USB Mass Storage Device Class](#)
- ▶ [AN00127 - USB Video Class Device](#)
- ▶ [AN00131 - USB CDC-ECM Class for Ethernet over USB](#)
- ▶ [AN00136 - Example USB Vendor Specific Device](#)

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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