



# lib\_xud: USB device library (README)

Publication Date: 2025/6/13  
Document Number: XM-012026-UG v3.0.0

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vendor	XMOS
version	3.0.0
scope	General Use
description	USB device library
category	General Purpose
keywords	USB, HID
devices	xc0r3.ai, xc0r3-200

## 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 *xc0r3* 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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