



lib_adat: ADAT lightpipe (README)

Publication Date: 2024/10/18

Document Number: XM-015136-UG v2.0.1

IN THIS DOCUMENT

1	Summary	1
2	Features	1
3	Known issues	1
4	Development repo	2
5	Required tools	2
6	Required libraries (dependencies)	2
7	Related application notes	2
8	Support	2

vendor

XMOS

version

2.0.1

scope

General Use

description

ADAT Lightpipe digital audio interface

category

Audio

keywords

ADAT

devices

xcore.ai, xcore-200

1 Summary

Provides ADAT transmitter and receiver implementations, each in a separate thread. Additional threads are required to collect and supply data via a channel end interface. These threads are required to deal with any sample ordering required for S/MUX.

2 Features

- ▶ 48000 and 44100 ADAT receivers
- ▶ 48000 and 44100 ADAT transmitters
- ▶ Application for loopback testing on Simulator or hardware

3 Known issues

- ▶ ADAT Rx: Requirement for 100 MHz reference clock (#18)
- ▶ ADAT Tx: No support for 256x master clock (i.e. 48 kHz from 12.288 MHz master clock) (#17)



4 Development repo

- ▶ [lib_adat](#)

5 Required tools

- ▶ XMOS XTC Tools: 15.3.0

6 Required libraries (dependencies)

- ▶ None

7 Related application notes

The following application notes use this library:

- ▶ [AN02003: SPDIF/ADAT/I²S Receive to I²S Slave Bridge with ASRC](#)

8 Support

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



Copyright © 2024, All Rights Reserved.

Xmos Ltd. is the owner or licensee of this design, code, or Information (collectively, the "Information") and is providing it to you "AS IS" with no warranty of any kind, express or implied and shall have no liability in relation to its use. Xmos Ltd. makes no representation that the Information, or any particular implementation thereof, is or will be free from any claims of infringement and again, shall have no liability in relation to any such claims.

XMOS, xCore, xcore.ai, and the XMOS logo are registered trademarks of XMOS Ltd in the United Kingdom and other countries and may not be used without written permission. Company and product names mentioned in this document are the trademarks or registered trademarks of their respective owners.

