



AN02031: Live Streaming Sound Card Example (README)

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vendor
XMOS

version
1.0.0

scope
Example

description
Live streaming sound card example

category
Audio

keywords
USB, UAC, DSP, Audio

hardware
XK-AUDIO-316-MC

1 Overview

Note: Some software components in this tool flow are prototypes and will be updated in Version 2 of the library. The underlying Digital Signal Processing (DSP) blocks are however fully functional. Future updates will enhance the features and flexibility of the design tool.

This application note shows a live streaming USB sound card application which can be configured in real time via a graphical user interface running on a PC. The application is uses lib_xua to create UAC 2.0 (USB Audio class) end points and also a control end point. The host application is written in python and uses pyside (a Qt6 python wrapper) to present a window to the user.

2 Key features

- ▶ Graphical user interface
- ▶ Audio DSP



3 Known issues

- ▶ None

4 Required tools

- ▶ XMOS XTC Tools: 15.3.1

5 Required libraries (dependencies)

- ▶ lib_audio_dsp
- ▶ lib_xua

6 Related notes

- ▶ AN02014
- ▶ AN02015

7 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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