

Features

- Multichannel USB Asynchronous audio interface
- Native support 24bits/192kHz
- Wide range of firmware options

Technical

- USB Audio Class 2.0 interface
- TOSLINK/ADAT/TDM/I2S modes
- Asynchronous USB audio
- Wide range of sample rates
- Optical Receiver/Transmitter

OS compatibility

- Windows Theyson ASIO driver
- Mac OS X driverless
- Linux Alsa 2.0 compliant
- Android/iOS compliant

Power

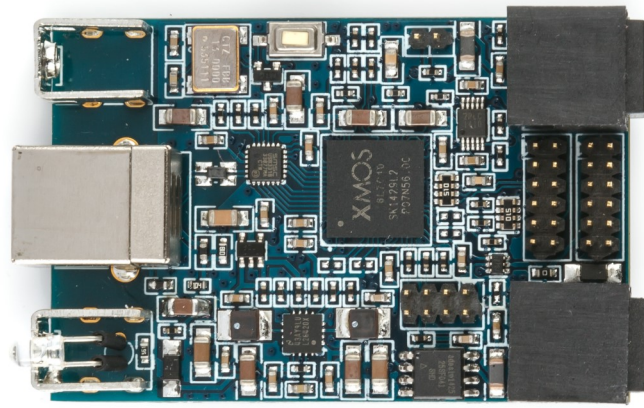
- USB Bus powered
- External DC supply header

Applications

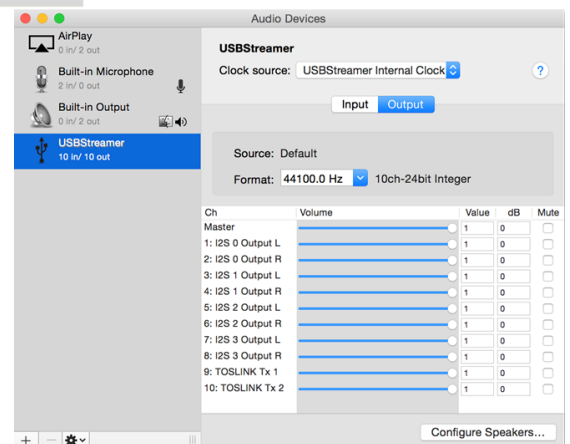
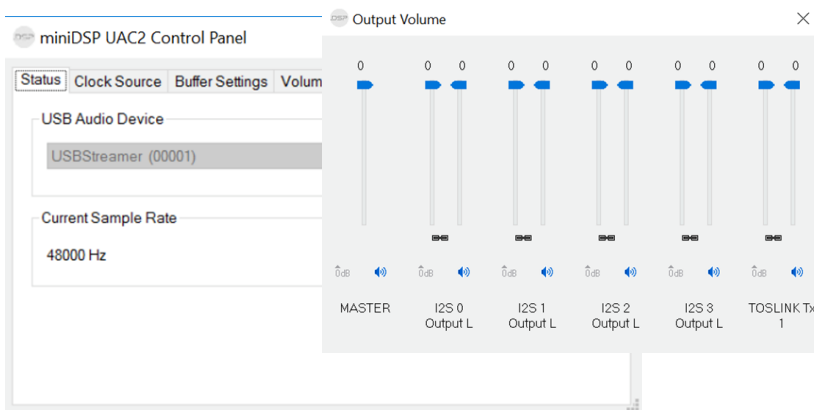
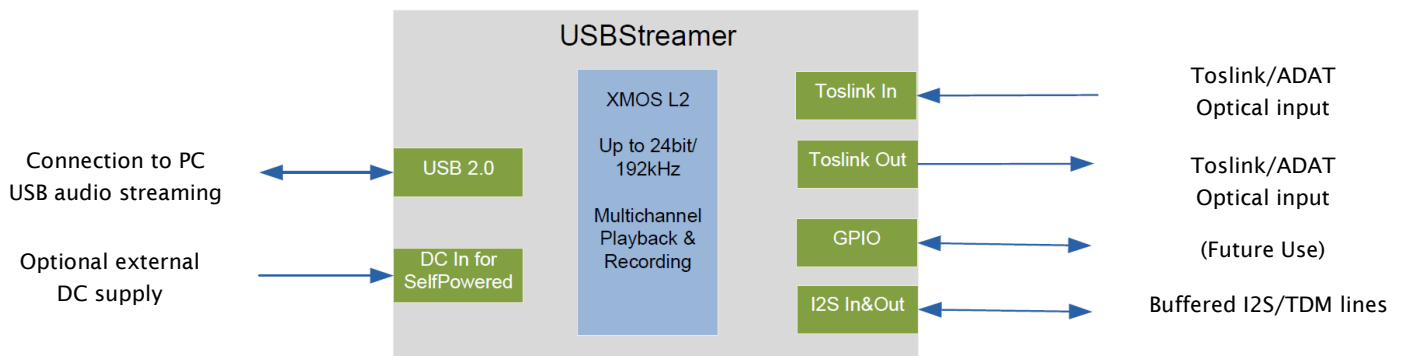
- Custom USB Audio interface
- USB to Toslink/I2S interface
- USB to TDM interface
- USB to ADAT interface

The **USBStreamer** is a miniature multi-channel USB to Toslink/I2S/TDM/ADAT interface with native support of audio files with format up to 24bit/192kHz. Packaged on a tiny PCB of only 2.4" by 1.4" (40x62mm), this interface is the perfect fit for OEM integration, testing tool for R&D or as part of your next high performance DIY project.

The **USBStreamer** utilizes high speed USB2.0 along with the Audio Class 2.0 implementation to simultaneously provide multiple channels of recording and playback. Thanks to a wide range of customized firmware, it is the swiss-army knife for audio developers looking to input/output audio to their PC/MAC/Linux interface. The dongle is up & running in a matter of seconds with compatible ASIO drivers for both Mac/Windows platforms. An easy and flexible system integration that follows the footsteps of the miniDSP product line.



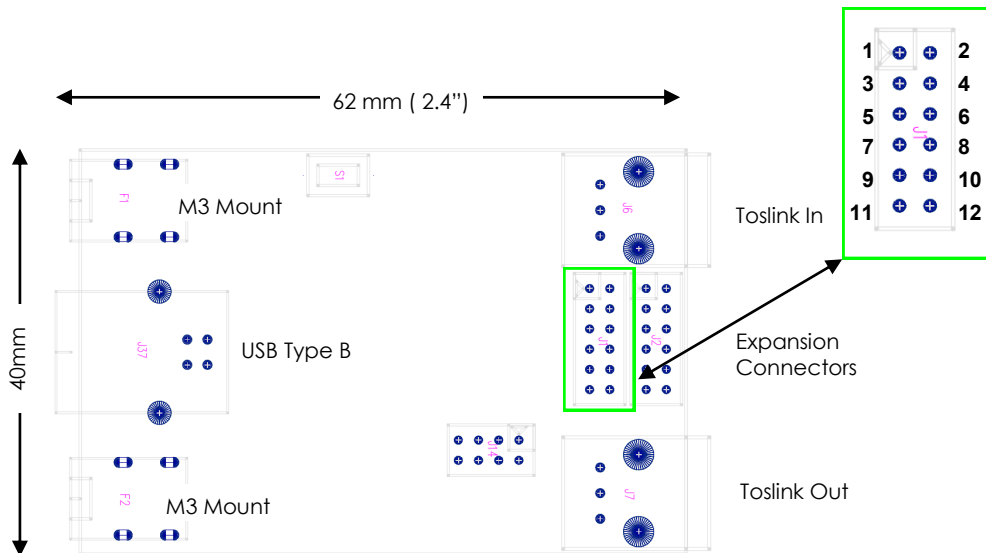
SYSTEM DIAGRAM



TECHNICAL SPECIFICATIONS

Item	Description
USB Streaming engine	XMOS L2 core / USB 2.0 full speed - USB Audio class 2.0 compliant
Capabilities	I2S + Toslink firmware: 8ch via I2S + 2ch Toslink (bidirectional) Stereo firmware: 2ch I2S + 2ch Toslink (bidirectional) ADAT: 8ch @ 48k bidirectional on optical receiver/transmitter TDM: 8ch audio bidirectionnal
Drivers	Driverless interface for Mac OS X v10.6.4 and up Theycon Windows ASIO driver provided (XP/Vista/7/8/Win10) Linux Alsa compliant driver Apple IoS (ipad/iphone) using Camera kit - multichannel audio streaming
I2S/TDM format for input/outputs	24 bits I2S master mode Sample rate: 8/11.025/12/16/22.05/24k/32k/64k 44.1/48/88.2/96/176.4/ 192kHz TDM mode: 8ch @ 48k / input and output on I2S_data_in1/out1.
Optical input	Toslink sample rate: 44.1/48/88.2/96/176.4 kHz ADAT sample rate: 8ch ADAT mode @ 48/44.1k
Optical output	Toslink sample rate: 44.1/48/88.2/96/176.4 kHz ADAT sample rate: 8ch ADAT mode @ 48/44.1k
Expansion connector	2 x 12pin, 2mm pitch expansion connector for connectivity to hardware.
Mounting	2 x Right Angle brackets allow easy chassis mounting with M3 threaded hole.
Power supply	USB powered OR 5Vdc external supply via header - 300mA requirement
Dimensions (H x W x D) mm	13 x 40 x 62 mm

MECHANICAL DRAWINGS



J1 Expansion connector pin out

Pin	Description
1	I2S data OUT ch1&2 - Playback
2	I2S data IN ch1&2 - Recording
3	I2S data OUT ch3&4 - Playback
4	I2S data IN ch3&4 - Recording
5	I2S data OUT ch5&6 - Playback
6	I2S data IN ch5&6 - Recording
7	I2S data OUT ch7&8 - Playback
8	I2S data IN ch7&8 - Recording
9	Master Clock out (MCLK OUT)
10	I2S System clock (SCLK)
11	Ground (GND)
12	I2S frame synch (LRCLK)

Front view - Mechanical drawing

