

Features

- Miniature USB-SPDIF interface
- Native support 24bits/96kHz
- Easy integration for OEM/DIY
- Lowest cost USB-I2S interface

Technical

- USB 2.0 Audio interface
- Isochronous In&Out endpoints
- 24bit Resolution I2S lines
- Support 8/16/32/44.1/48/96KHz
- SPDIF transformers for isolation
- Buffered I2S interface selectable between I2S Master or Slave

Control

- Plug & Play - No driver required
- WinXP/Vista/7/8 compatible
- Mac OS X compatible

Power

- USB Bus powered
- External DC supply also available for cleaner Power supply

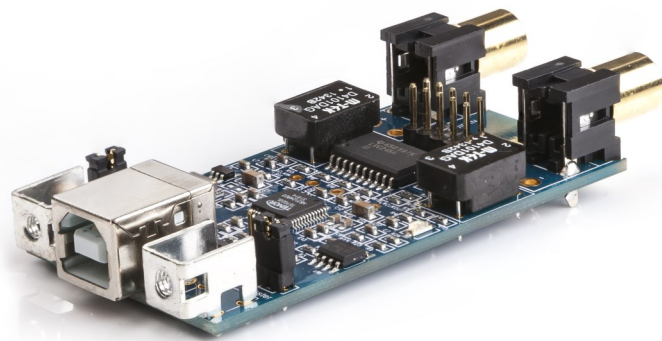
Applications

- Custom USB Audio interface
- USB-SPDIF-I2S interface
- High resolution Playback Record-

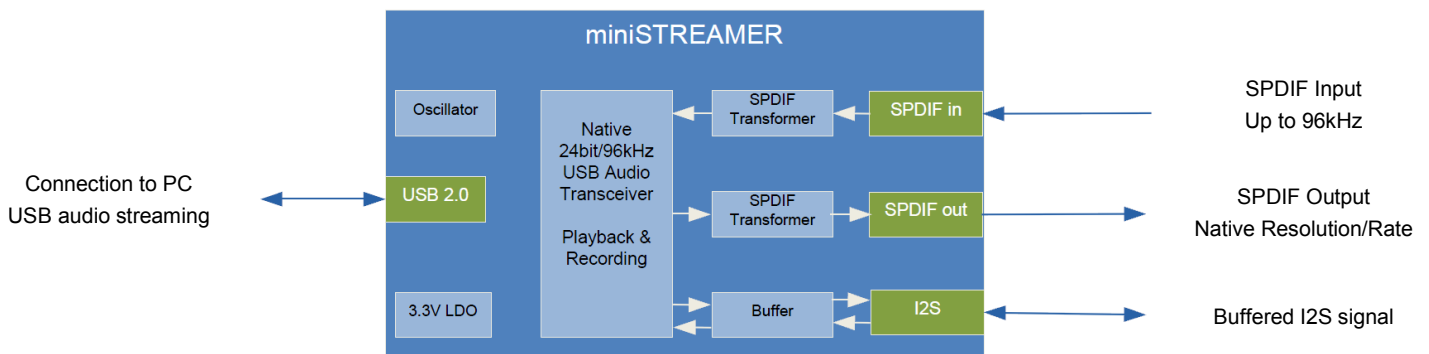
miniSTREAMER is a miniature USB to SPDIF-I2S interface, allowing native support of audio files with format up to 24bit/96kHz. Packaged on a tiny PCB of only 2.3" by 1.4", this interface is the perfect fit for OEM integration or as an element of a customized high performance A/V product.

Don't be fooled by its size, like any miniDSP product, this interface was designed with quality in mind. By combining native high resolution audio (24bits/96kHz) along with galvanic isolation (SPDIF transformers), our team's objective remains best audio quality for both playback and recording.

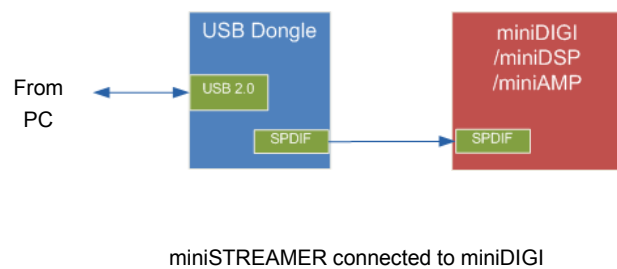
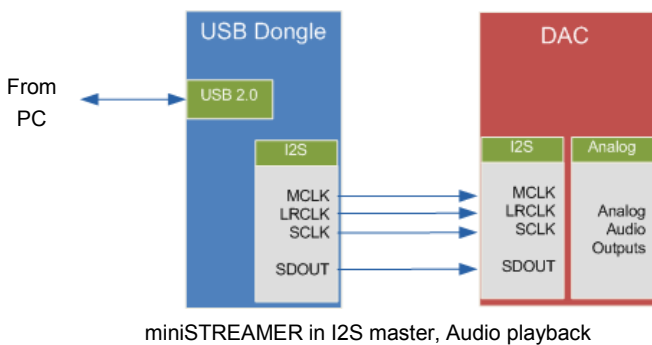
Keep it simple, Keep it real. With no driver installation, this USB/I2S/SPDIF dongle is a true plug & play experience, up & running in a matter of seconds. An easy and flexible system integration that follows the footsteps of the miniDSP legacy. From its I2S Master/Slave selection to its external power supply option, it's all there to make sure this tiny interface fits needs of a wide range of applications.



SYSTEM DIAGRAM



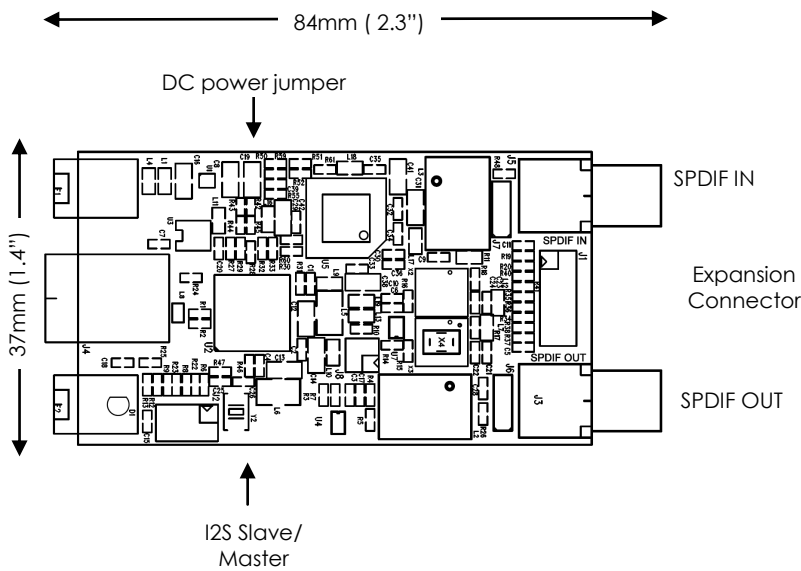
SAMPLE APPLICATIONS



TECHNICAL SPECIFICATIONS

Item	Description
USB Streaming engine	USB 2.0 full speed - USB Audio class 1.0 compliant
Capabilities	2 isochronous input for recording, 2 isochronous outputs for playback
Drivers	Driverless interface for both Windows and Mac OS X environments
Resolution	16/24bit support
Supported sample rate	8/16/32/44.1/48/96kHz
I2S format	24 bits I2S
I2S settings	Master/Slave configurable with simple jumper setting
SPDIF Input	Transformer isolated SPDIF input, 75 Ohms
SPDIF Output	Transformer isolated SPDIF output, 75Ohms
Noise level & Dynamic Range (dB)	-150dB / 133dB
Expansion connector	8 pin, 2.5mm pitch expansion connector for direct connectivity to hardware. <ul style="list-style-type: none"> • SCLKOUT/LRCLKOUT/MCLKOUT/SDOUT for I2S output from the USB (playback) • SCLKIN/LRCLKIN/MCLKIN/SDIN for I2S input to the USB (Recording) • +5VDC external supply, GND
Mounting	2 x Right Angle brackets allow easy chassis mounting with M3 threaded hole.
Power supply	USB powered OR 5Vdc external supply via header - 60mA requirement
Dimensions (H x W x D) mm	12 x 37 x 84 mm

MECHANICAL DRAWINGS



Pin#	Type	Description
1	Output	SCLKOUT - I2S system clock - Playback
2	Output	LRCLKOUT - I2S frame sync - Playback
3	Output	SCLKIN - I2S system clock - Recording
4	Output	LRCLKIN - I2S frame sync - Recording
5	Input	SDIN - I2S data - Recording.
6	Output	SDOUT - I2S data - Playback
7	n/a	GND
8	Output	MCLK OUT - Master clock Playback
9	Output	MCLK IN - Master clock Recording
10	Input	+5VDC from external supply. Warning: DC power jumper must be removed when board is powered from external supply