

Features

- All Digital Signal Processor
- Flexible configurations
- Up to 2 x IN, 8 x OUT digital

Hardware

- 28/56bit DSP
- SPDIF/Toslink processed by a Sample Rate Converter (ASRC)
- 4 x SPDIF outputs
- Sample rate plug-in dependant
- IR control with learning feature

Software Control

- Real time control of USB 2.0
- Plug&Play driverless setup
- WinXP/Vista/7 & Mac compatible
- Firmware upgradeable for future expansion

Power

- Single external 5VDC supply
- Extreme low power (2W)

Applications

- All Digital processing
- Multi-way processing
- System equalization

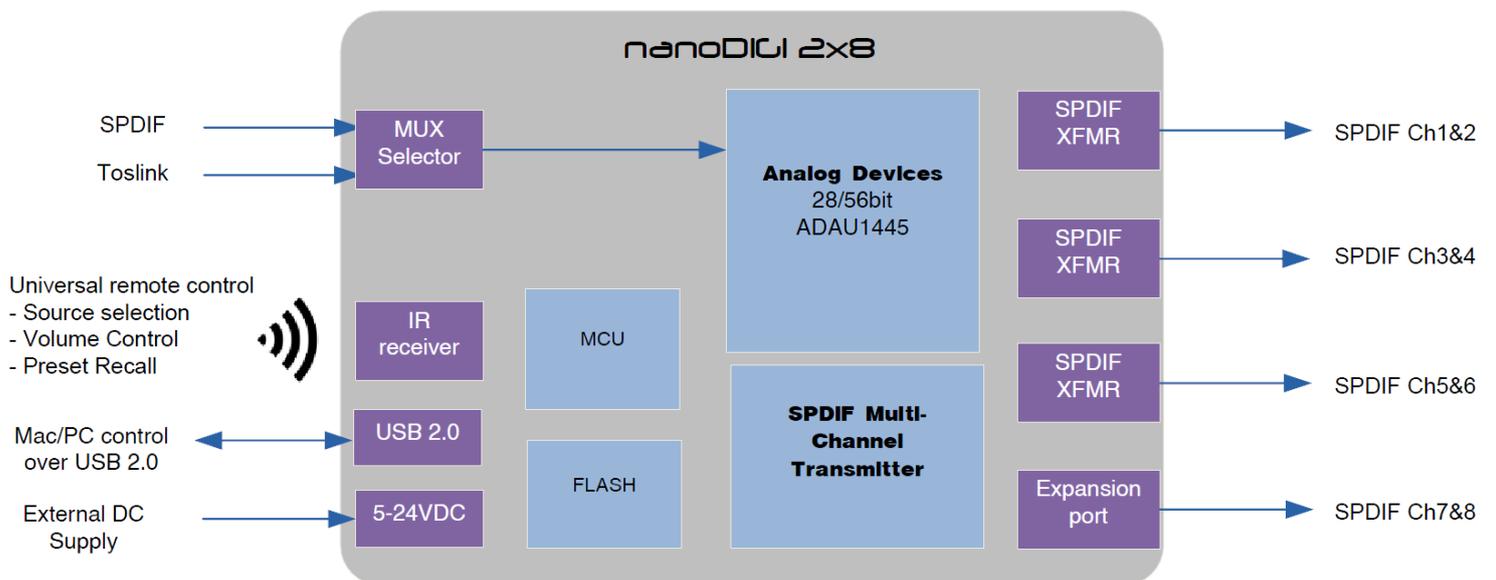
Featuring the well known digital audio processing flexibility of the miniDSP product line, the nanoDIGI 2x8 is an all digital processor version. From room correction to multi-way speaker tuning, the nanoDIGI typically fits between a digital source (CD player/DVD/PC..) and a DAC to perform audio processing.

On the input side, either SPDIF or Toslink (Optical) input are available and selectable from the software or IR learning interface. The internal sample rate converter will take care of adapting your digital input signal to the core operating sample rate frequency (44.1kHz to 192kHz). Finally, the four transformer isolated SPIF outputs allows up to 8 processed audio channels to be sent to your own DAC or SPDIF powered amplifiers.

On the processing side, the nanoDIGI makes full use of its DSP to provide a wide range of processing blocks for most common applications (Crossover, Equalization, time alignment, comp/limiter...). As per the miniDSP concept, its is the plug-in which defines the ability of the platform and therefore its sampling rate. From 96kHz to 192kHz configuration, the nanoDIGI is a unique affordable, flexible and palm size processor.



SYSTEM DIAGRAM



HARDWARE SPECIFICATIONS

Item	Description
Digital Signal Processor Engine	28/56 bit Digital Signal Processor Engine / Double precision processing
Sample rate	44.1kHz to 192kHz - Sample rate depends on loaded plug-in
Data resolution	24 bits
Dynamic range, un-weighted	>128dB
Digital Inputs	Source selectable from IR or through software between: 1 x SPDIF on RCA connector and transformer isolated (Stereo) 1 x Toslink on optical receiver Asynchronous Sample Rate Converter (ASRC) allows input up to 192kHz
Digital Outputs	4 x SPDIF on RCA connector and transformer isolated The sample rate of the output is equivalent to the DSP sample rate Consult the plug-in datasheet for more information
Typical loaded DSP Algorithms	Consult plug-in for more info: <ul style="list-style-type: none"> • Parametric EQ (Peak/High&Low shelf) • Custom biquad filters • Routing matrix • Crossover filters (Butterworth/Linkwitz Riley/Bessel) up to 48dB/oct • Delay • Invert/Mute/Gain
IR control	IR receiver with IR learning remote ability. Compatible with NEC, Sony and RC6 IR remote standards.
Power supply	5-24Vdc input via 2.1mm DC input (150mA @ 5V) 5V universal power supply provided in kit Status LED indicates operating DSP
Dimensions (H x W x D)	108x79x26 mm

MECHANICAL SPECIFICATIONS

