

Features

- . All Digital Signal Processor
- . Flexible configurations
- . Up to 2 x in, 8 x out processing
- . Low power yet powerful

Hardware

- . 28/56bit Fixed point DSP
- . SPDIF or Toslink input fed to a Sample Rate Converter (ASRC)
- . 4 x SPDIF outputs for up to 8ch
- . Operating sample rate plug-in dependant
- . IR control with learning feature

Software Control

- . Real time live control over USB2.0
- . Win & Mac compatible
- . Firmware upgradeable for future

Power

- . Single external 5-24VDC supply

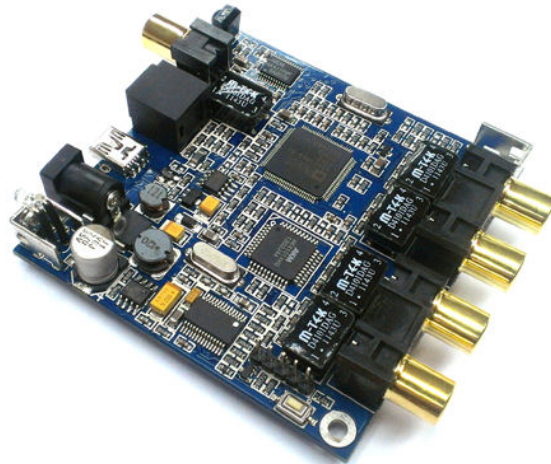
Applications

- . All digital processing
- . Multi-way speaker processing
- . Custom AV/ OEM solutions

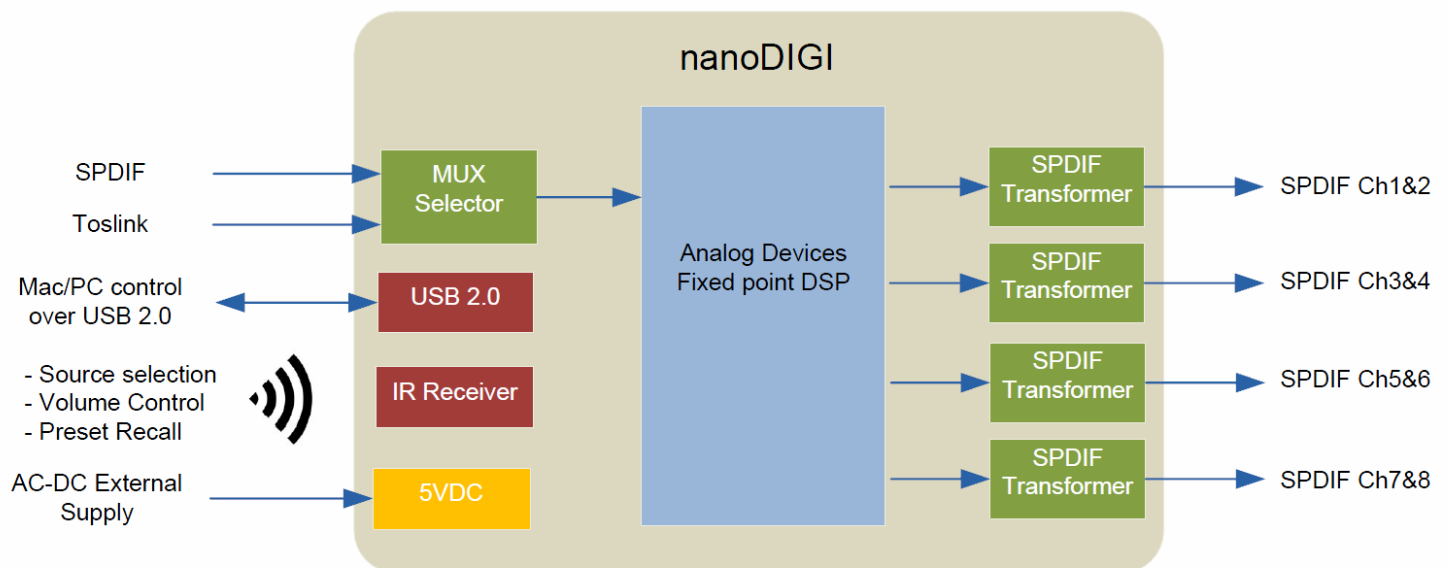
Following the success of our analog DSP product line, the nanoDIGI 2x8-K is a palm size low power all Digital processor. Featuring the well known flexibility of the miniDSP brand, the nanoDIGI allows affordable high end digital processing by re-using existing high end DAC units you may have.

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. 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



TECHNICAL SPECIFICATIONS

Item	Description
Digital Signal Processor Engine	28/56 bit Digital Signal Processor Engine / Double precision processing
Sample rate	48kHz 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
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)	75 x 75 x 16 mm

MECHANICAL SPECIFICATIONS

