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nanoDIGI 2x8

nanoDIGI 2x8 Xover v1 is a plug-in for the nanoDIGI 2x8 all digital platforms. Operating at 96kHz, the digital input (either SPDIF or Toslink) are being mixed to the matrix mixer for complete freedom of audio routing. From a multi-zone audio processor to multi-way crossover, this all digital configuration is fitted with the most common speaker and system tuning processing blocks.

Software features

- . Extensive set of audio algorithms
- . Live tuning, "hear changes real time"
- . Channel linking to synchronize settings of two channels (PEQ/Crossovers)
- . Save/Load configurations
- . Up to four preset configurations stored inside the DSP and controllable from IR
- . Extensive plotting capabilities
- . Plug & Play setup requires no driver
- . Custom Input/Output labels

Applications

- . Active loudspeaker processor
- . All digital Signal Processing
- . Car audio processor
- . Custom Pro Audio boards

Algorithm and plug-in configuration

Item	Description	
Sampling frequency	96kHz	
Inputs/Outputs	Inputs: Up to 2 digital inputs selected between either SPDIF OR Toslink source via software or IR remote Outputs: Up to 8 digital outputs	
Algorithm resolution	Double precision filters (56bits resolution)	
Input mute/select	Click-less input mute per channel and input selection	
Digital gain	Fader gain control from –80 to 0dB	
Input/ Output meters	Monitoring signal from -80dBFS to 0dBFS - High refresh rate	
Low & High Pass filter types	Butterworth up to 8th order (6 to 48dB/oct) Linkwitz-Riley up to 8th order (12 to 48dB/oct) Bessel - 2nd order - Bypass per filter Frequency: 10Hz to 20kHz in 1Hz increments	
Parametric Equalizers (Peak/Low&High shelve)	5 PEQ bands per input, 5 PEQ bands per output Frequency: 10Hz to 20kHz, 1Hz increments Gain: 0 to 16dB, 0.1dB increments Q: 0.5 to 50, 0.1digit increment Type: Peak of Shelf (low/high) & Per-band bypass feature	
Mixer	Central mixer for 2 x 8 cross-point configuration (ON/OFF)	
Delay (time alignment)	Up to 9ms per channel (3m) in 0.02ms increments	
Polarity	Invert polarity 180degree per channel	
Output mute	Individual output mute	
Master output gain	tput gain Control master output digital gain fader from –80 to 0dB via IR remote	
IR Learning remote	Learn control commands from NEC/Philips/Sony remote for control of	



miniDSP Ltd - Hong Kong / Tel: +852 23582066 / Email: info@minidsp.com Features and Specifications subject to change prior notice

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nanoDIGI 2x8 vl

Low Pass and High Pass filter per output channel



	LOW PASS FILTER SETTINGS		HIGH PASS FILTER	HIGH PASS FILTER SETTINGS		
	Cut off frequency	100	Cut off frequency	10		
	Filter Type	LR 48dB/oct	Filter Type	LR 48dB/oct		
	Bypass filter	BYPASS	Bypass filter	BW 48dB/oct 🔺		
				LR 12dB/oct		
				LR 24dB/oct		
				LR 48dB/oct		
				Bessel		
	Double precision algorithms (56bits) for greater resolution					
	Wide range of filter choices Up to 8th order (48dB/oct) with					
	Channel linking feature to link up settings to Left & Right channels					
	Complex plotting displays the combined effect of low/High pass					
Bypass feature to listen to the effect of filter settings						

Parametric Equalizer (Peak/Shelf)



Double precision algorithms (56bits) for greater resolution in low frequency range.

Up to 5 Bands of parametric equalization with complete freedom on Frequency, Gain and Q settings

Peak/Low Shelf/High Shelf selectable per band

Per Band Bypass allows to quickly listen to the effect of your equalizer settings.

Real time channel linking to keep PEQ settings of two channels synchronized

Output Channel 1 🛛 🚽 🗹 Link Enabled

Delay, Polarity, Input/output metering



Delay Control delay per output channel to better time align each channel.

To simplify your calculations, the equivalent distance is also provided.



RMS meter displays for input and output channels. Resolution from –80 to 0dBFs (Full scale)

Central Matrix Switcher toggles ON/OFF routing



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