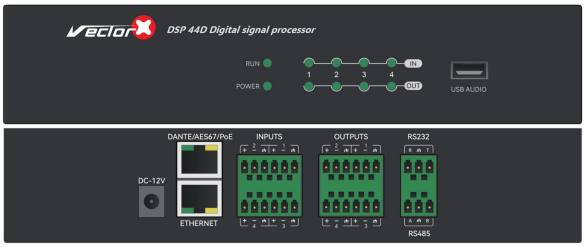
Digital Signal Processor

DSP-44D



Key features:

The DSP-44D is a versatile digital audio signal processor ideal for small setups with 4x4 analogue audio and 4x4 Dante network audio channels, USB audio for soft codecs and built-in AEC Acoustic Echo Cancellation suitable for Unified Communications

It also features RS-232 & RS-485 ports for environment control, signal switching and memory preset recall as well.

Supports both PoE and DC12V power source

Technical specification	
Input channels	4 balanced, mic/line level
Output channels	4 balanced, mic/line level
Dante channels	4x4
Input/output connection	3.81mm detachable Euroblock, 6-pin
Input impedance	5.4kΩ
Output impedance	600Ω
Selectable input gain	0/6/12/18/24/30/36/42/48dB
Phantom power	+48V / 10mA max
Input dynamic range	113dB
Output dynamic range	113dB
Frequency response	20 – 20kHz ±0.3dB
Maximum signal level	+18dBu
THD+N	0.002% @ +4dBu
Channel isolation @ 1kHz	108dB
AEC - Echo Cancellation amplitude	60dB
AEC - Tail Length	512ms
AFC – Acoustic Feedback Control	Notch algorithm
ANS – Acoustic Noise Suppression	Up to 18dB improvement on Signal-to-noise ratio
USB	USB-A connector for soft codec audio

Digital Signal Processor

Technical specification	
DSP Core	SHARC 21489 450MHz SIMDx2
DSP processing capability	400 MIPS / 1.6 GFLOPS
DSP processing modules	PEQ – Parametric EQ LPF & HPF – High Pass & Low Pass Filters AGC – Automatic Gain Control Ducker Delay Limiter Graphic EQ Matrix switching Automatic Mixing Feedback elimination (AFC) Echo cancellation (AEC) Adjustment of Noise vs output level (ANC) Auto noise subtraction (ANS)
Sampling rate	48KHz ±100 ppm
Digitizing bit	24-bits
Communication Port	2 x RJ45 – PoE for Dante and Ethernet 1 x USB-A 1 x RS232 1x RS-485
Power Supply	PoE or DC 12V
Dimension (W x D x H)	215 x 162 x 44mm
Weight	2.0kg

DSP configuration software

