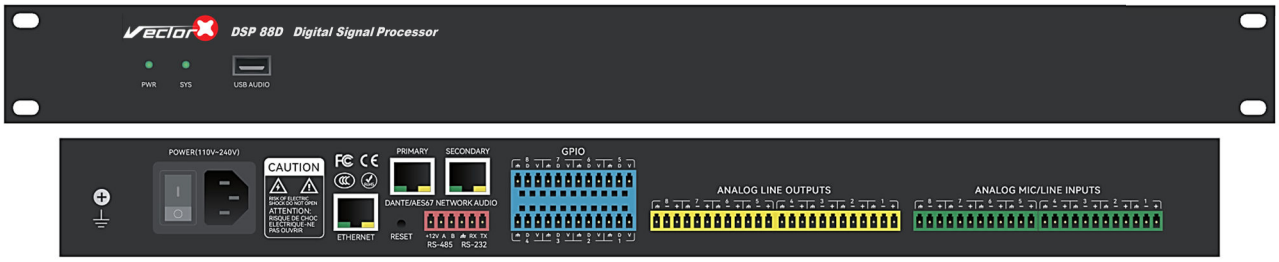
Digital Signal Processor

DSP-88, DSP-1608 / DSP-88D

DSP-88D



Key features:

Versatile digital audio signal processor with convenient integration with control systems

8x8, 16x8 analogue audio

USB audio for soft codecs and built-in AEC Acoustic Echo Cancellation suitable for Unified Communications

The DSP-88D has 8x8 analogue & 8x8 Dante network audio channels and GPIO ports for environment control, signal switching and memory preset recall as well.

Technical specification	
Input channels	DSP-88 & DSP-88D : 8 balanced, mic/line level DSP-1608 : 16 balanced, mic/line level
Output channels	DSP-88 & DSP-88D : 8 balanced, mic/line level DSP-1608 : 8 balanced, mic/line level
Dante channels	8x8 (DSP-88D)
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
GPIO	8x configurable GPIO (For DSP-88D)
Communication Port	For all models: 1 x RS232 (1 x ETH (RJ45) 1 x USB (Type B) Additional ports for DSP-88D: 1x RS-485 2x Dante (RJ45) Primary & Secondary
Power Supply	AC 110 - 240V, 50Hz
Dimension (W x D x H)	482 x 200 x 45mm
Weight	3.98kg

DSP configuration software

