

Digital Audio Signal Processor

Digital Signal Processor is automatically mixing media in matrix with multiple inputs and multiple outputs. It is having built-in feedback suppression, automatic mixing, matrix mixing, equalizer, distributor, compressor and other DSP functions. It can support Dante network audio expansion and realize computer software control through USB drive-free connection. Also provide central remote control via RS232, RS485, TCP/IP connection, suitable for various sound amplification projects in various scenarios.

Key Features

- Support microphone input and line input switch freely.
- With AEC echo cancellation and ANC noise cancellation function, suitable for remote video teleconference
- Each microphone input has 9 levels of sensitivity adjustment
- Automatic mixing and matrix mixing functions
- PEQ adjustment for inputs and outputs
- with video tracking function, support most camera control protocols
- USB drive automatic connect with software, and support RS232 control
- Support remote control of mobile APP software



Support PTZ camera



Advanced audio features



9 levels of sensitivity adjustment



Supports RS232 Control



Automatic connection with software



* Due to continuous product development, the specifications may change without prior notice
** Product images are for illustration purpose only and may be different from the actual product

Digital Audio Signal Processor	Impact AP5-DM8
Signal Processing	32-bit fixed/floating-point DSP 300MHz
Audio System Delay	< 1ms
Digital-Analog Conversion	24-bit
Sampling Rate	48KHz
Input Channel	8-channel balanced inputs, Mic/line level
Audio Interface	3.81 mm Phoenix plug, 12-pin
Input Impedance	11.5KΩ
Maximum Input Level	12dBu/Line, -9dBu/Mic
Phantom Power	+48VDC, 6.5mA, configured in each channel
Output Channel	8-channel balanced outputs, line level
Output Impedance	150Ω
Frequency Response	20Hz-20kHz(+ -0.5dB)/Line, 20Hz-20kHz(+ -1.5dB)/Mic
Total harmonic distortion (THD+N)	-90dB (@12dBu,1kHz, A-wt.)/Line, -86dB (@-7dBu,1kHz, A-wt.)/Mic
Signal to Noise Ratio	105dB (@12dBu,1kHz, A-wt.)/Line, 95dB (@-7dBu,1kHz, A-wt.)/Mic
USB Port	Micro-B type, drive-free
Serial port communication	1x RS232 Port, 1x RS485
GPIO Port	10 pin GPIO port
TCP/IP Network Port	1x RJ-45 Port
Power Supply	AC100V-240V 50/60 Hz
Input/output	8 channels audio input & 8 channels audio output support mic input & line input with switching function
Level Sensitivity Adjustment	Each microphone input has 9 levels of sensitivity adjustment
Phantom Power switching	Each input has 48V phantom power switch
Inbuilt Feedback suspensor	Inbuilt feedback suppressor with two levels adjustment with Each audio input
Audio mixing	Automatic mixing and matrix mixing functions for Audio Signals
PEQ Adjustment	16 bands PEQ adjustment for input signal and 10 bands PEQ adjustment for output Signals

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