

# MATRIX MIXERS Digital Signal Processors

Full matrix 8X8 digital signal processor

## DSP8X8

DSP8X8 – 8 input and 8 output digital signal processor for conference and background audio system signal processing and automation. It features analog outputs and inputs (selectable as Line level or Mic level), as well as 2-in/2-out USB audio interface. AFC, AEC, ANC, AGC features, auto mixer, matrix routing, per channel noise gate, crossover, parametric EQ, delay, compressor, limiter and FIR filters. 24 bit / 48 kHz AD/DA converters, 32-bit float 400MHz DSP processing. DSP 8X8 also has the ability to control the positions of PTZ video cameras via RS485 or RS232. GPIO is also available to control main DSP parameters or indicate DSP status.. Device control software works with Windows OS, RS232, RS485, TCP/IP, GPIO control protocols.



Technical Specifications	DSP8X8
Power supply	~ 115-230 V, 50/60 Hz
Power consumption	14 W
Inputs	8 x balanced Phoenix
Input impedance	16 kΩ
Maximum input level	Line: 17 dBu Mic: -3 dBu
Outputs	8 x balanced Phoenix
Output impedance	150 Ω
Maximum output level	+10 dBu
Maximum gain	-40 dBu
Frequency Response	20 Hz - 20 kHz
Distortion	Line: -90 dB (@ 17 dBu, 1 kHz) Mic: -90 dB (@ -6 dBu, 1 kHz, 20 dB gain sensitivity)
S/N ratio	Line: 110 dB (@ 17 dBu, 1 kHz) Mic: 100 dB (@ -6 dBu, 1 kHz, 20 dB gain sensitivity)
AD / DA converter	24 bit / 48 kHz sampling rate
DSP process	32 bit float point DSP 400 MHz
System delay	< 3 ms
Control protocols	RS232, RS485, TCP/IP, GPIO
Control ports	USB Type B, RJ45, USB, phoenix
Indicator lights	Input signal, Phantom power, Link, Output signal
Supported OS	Windows
Dimensions	483 x 265 x 44.5 mm
Weight	3.3 kg



Control software  
for Windows OS



High Performance Fourth  
Generation Analog devices  
SHARC Audio Processor