PREAMPLIFICATION

Audio matrix with DSP

MXD-88

Audio matrix with 8 inputs/8 outputs and DSP, with control from remote panels or from an app, available for Android and IOS, configurable and customizable. Inputs can be mic or line, with various selectable gain settings and phantom power capability. The sampling frequency is 48 kHz and the signals are encoded with 24 bits.

Digital Signal Processor (DSP) includes multiple functions such as Expander, Compressor, Limiter, Automatic Gain Control (AGC), Equalizer, Feedback Suppressor, Automixer, Echo Canceller, Noise Suppressor, Audio Matrix, Filters, Delays ... It also has a sound card via USB and complete software to configure all the parameters.

Processor	ADI SHARC 21489
Sampling rate	48 KHZ / 24 bit
Input Gain	0/6/12/18/24/30/36/42/48 dBu
Input Level	0/-6 dB
Phantom Power	48 V
Frequency Response	20 ~ 20 KHz ±0,2 dB
Maximum Level	+24 dBu
THD + Noise	0,003% @ 4 dBu
Dynamic Range	110 dB (balanced connection)
Background Noise (A-weighted)	-91 dB (balanced connection)
Common Mode Rejection Ratio	@60Hz 80 dB
Channel Isolation @ 1KHz	108 dB
Input Impedance	9.4 KΩ
Output Impedance	102 Ω
System Delay	< 3 ms
Communication	Ethernet
Control protocols	RS232 and RS485
GPIO	4 input/output contacts
Additional features	USB sound card
Power supply	220 V AC / 50 Hz-60 Hz
Consumption	< 40 W
Dimensions (mm)	482 x 260 x 45
Weight	3 Kg

Configuration and control program

App

Zone microphone desk

PMX-8Z

Microphone desk with keys for zone selection (8), talk key (TALK) and gong ON/OFF. Volume control for microphone and gong. RS485 + audio connection with MXD-88.

Remote control

WPD-8P

Remote control panel (Ethernet) with 8 keys and a rotary knob. Each key has assigned a function from the configuration program: volume adjustment (using the rotary knob), scene selection, muting an input/output (mute), executing a command...

WPD-SC

Remote control panel (Ethernet) with display and a rotary knob to control settings, adjust volume, scene selection, mute an input/output, execute a command...

www.optimusaudio.com

OPTIMUS SOUND INNOVATION
C/ Barcelona 101
17003 Girona (Spain)
(+34) 972 203 300
FAMILY COMPANY