MATRICE AUDIO 8X8 CON DSP



8 x 8 analog audio matrix, with 2 USB ins and 2 USB outs and media player

Reference: ZZONEMTX8

8 x 8 analog audio matrix switcher with 2 USB inputs and 2 USB outputs and media player.

Designed for versatility and ease of use, this device is configurable via an intuitive Windows application featuring a customizable graphical user interface (GUI), allowing users to customize layouts, themes, and access levels with the support of administrators and user accounts.

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The DSP-AEC-3026-DA boasts robust processing power, including equalization, dynamics, mixing, matrix routing, and advanced acoustic echo cancellation (AEC) to ensure crystal-clear communications in demanding environments.

It also integrates a 2x2 USB interface that functions as a dedicated sound card for easy audio integration with your computer. Perfect for streaming playback and recording during virtual meetings or collaborative environments.

For mission-critical reliability, redundancy mode protects operations, while an open API enables seamless external control via Ethernet (TCP/UDP) or RS-232/485 protocols. Whether optimizing audio for hybrid workspaces or complex AV systems, the matrix combines cutting-edge features with a user-centric design to redefine audio processing efficiency.

The DSP-based remote audio hardware is routed, processed, and controlled via a computer. ZZIPP DSP 3.0 is a Windows-based application used to configure and control the ZZONEMTX hardware. It features 16 built-in presets, and the modules and sequences of each preset can be flexibly designed according to the designer's needs. Once the design is complete, it can be saved for future use. The sequences and parameters of the processing modules integrated in ZZIPP DSP 3.0 are suitable for most application scenarios in professional installations. ZZIPP DSP 3.0 is a comprehensive application that includes parameter adjustment and peripheral accessory settings of all modules, such as RS232, RS485, click-and-drag panel configuration, and Dante network audio control, etc.

Technical Specifications

- ADI Shark 21489 DSP - 400MPS 1.6Gflops
- 8 analog Mic/Line inputs on 12-pin terminal blocks
- Phantom power +48V (Max 10mA selectable for each input)
- Analog audio outputs with line level on 12-pin terminal blocks
- Interfaces: LAN 10/100, LAN 10/100/1000
- Connections: RG45, USB type A, RS232, RS485, Terminal Blocks
- Audio input 0-60dB in 3dB steps
- Frequency response 20Hz - 20KHz (+/-0.3dB)
- Maximum Level +18dBu

- EIN <-125dB, 20Hz - 20kHz A-weighted
- THD 0.003% @ 4 dBu
- Input Dynamic Range 110dB
- Output Dynamic Range 112dB
- Noise Floor -95dB A-weighted
- Channel Isolation 108dB
- Balanced Input Impedance 5.4kOhm
- Balanced Output Impedance 600 Ohm
- System Latency <5ms
- Sample Rate 48kHz
- Power Requirements 110-240V 50Hz-60Hz
- Maximum consumption 40W
- Dimensions 482 x 264 x 44mm
- Net weight 2.2kg
- Gross weight 3.2kg

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